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February 3, 2023

Mr. Robert Kondreck
On-Scene Coordinator
U.S. Environmental Protection Agency Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

Subject: Removal Action Report, Revision 1
Chudnow Metals Site – RV
EPA Contract No.: 68HE0519D0005
Task Order-Task Order Line Item No.: F0032-0001DH108
Document Tracking No.: 1403a

Dear Mr. Kondreck:

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting this Removal Action Report, Revision 1, for the Chudnow Metals Site (the Site) in Milwaukee, Milwaukee County, Wisconsin, for your review and comment. This report summarizes the actions and activities associated with the Environmental Protection Agency (EPA) Removal Action conducted at the Site from September 19 to December 7, 2022.

If you have any questions or comments regarding this submittal, please email me at Rachel.Houle@tetrattech.com or call me at (312) 201-7721.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Houle', enclosed in a thin black rectangular border.

Rachel Houle
Project Manager

Enclosure

cc: TOLIN file
Karl Schultz, Tetra Tech Program Manager

**REMOVAL ACTION REPORT
CHUDNOW METALS SITE – RV
MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN**

Revision 1

Prepared for

U.S. Environmental Protection Agency
Superfund and Emergency Management Division
Region 5
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1.0 INTRODUCTION

Under Contract Number 68HE0519D0005, Task Order-Task Order Line Item Number (TO-TOLIN) F0032-0001DH108, U.S. Environmental Protection Agency (EPA) Region 5 tasked the Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) to assist with a fund-lead removal action at the Chudnow Metals Site (the Site) located at 5401 West State Street, Milwaukee, Milwaukee County, Wisconsin.

As a part of the removal action, Tetra Tech START conducted the following removal activities associated with the above-referenced TOLIN:

- Developed site-specific work plans, including the Air Monitoring Plan (AMP), Emergency Contingency Plan (ECP), Sampling and Analysis Plan (SAP), and Health and Safety Plan.
- Site documentation.
- Removal action oversight.
- Air monitoring, air and soil sampling, analysis, and data validation.
- Monitoring well installation.
- Development of a Removal Action Report.

The removal action aimed to mitigate imminent and substantial threats to public health, welfare, and the environment posed by hazardous materials at the Site. This removal action report documents the removal action activities that took place at the Site from September 19 through December 7, 2022. This report discusses the site background in Section 2.0, removal action activities in Section 3.0, and conclusions in Section 4.0. References cited in this report are in Section 5.0.

Figures are included in Appendix A. The START field notes are provided in Appendix B. A photographic log of the removal action activities is provided in Appendix C. The air quality monitoring data are summarized in the Air Monitoring Summary Table provided in Appendix D. The analytical results are summarized in the Analytical Summary Tables provided in Appendix E. Environmentally preferred practices are provided in Appendix F. The final laboratory analytical data packages are provided in Attachments 1 through 7.

2.0 SITE BACKGROUND

This section includes the site location, site description, and provides an overview of the project.

2.1 SITE LOCATION AND DESCRIPTION

The Site is at 5401 West State Street in Milwaukee, Milwaukee County, Wisconsin (Appendix A, Figure 1). The parcel ID number is 3850861000. Geographic coordinates at the approximate center of the Site are 43.0435539° north latitude and 87.981350° west longitude. The Site is at an elevation of approximately 629 feet above mean sea level (amsl). An approximately 9-foot-high (638 feet amsl) berm was previously on the southeastern portion of the Site. The Site location is depicted in Figure 1 of Appendix A.

The Site is on approximately one acre of land. Currently, it is occupied by Happy Paws, a dog daycare and grooming facility and the tenant at the Site. A building, parking lot, and fenced-in kennels are present on the northern portion of the Site, while the southern portion of the Site is undeveloped. The Site is bounded to the north by West State Street, with commercial properties beyond; to the east by a disposal facility; to the south by railroad tracks, with an industrial property and the Menomonee River beyond; and to the west by commercial properties. The Site Layout is depicted in Figure 2 of Appendix A.

2.2 SITE HISTORY

According to a 2020 report by Friess Environmental Consulting, Inc. (FEC), use of the Site as a salvage yard dates to the 1950s (FEC 2020). On-site operations that included storage and scrap metal separation for resale also encompassed several additional properties. Based on historical aerial photographs, grading of the Site has occurred, and stockpiles of metal debris have been documented at various locations on the southern portion of the Site. Operations ceased in 2001 when State Street LLC, the current owner, purchased the Site. Remaining piles on the Site were consolidated in its southeastern portion in 2003, sifted to remove scrap metal and debris in 2004, and redistributed in a berm spanning the southern portion of the Site in 2005 (FEC 2020). Since 2000, multiple investigations have identified volatile organic compounds (VOC), metals, and PCBs in soil at concentrations exceeding Wisconsin Department of Natural Resources (WI DNR) residual contaminant levels (RCL) (WI DNR 2018). FEC's 2020 investigation determined that impacted material on the Site was confined primarily within the berm on its southern portion (FEC 2020).

On March 12, 2021, WI DNR requested EPA assistance in conducting a removal assessment at the site. EPA and START reviewed available historical analytical data pertaining to the Site and determined that PCBs were present in soil at concentrations exceeding the TSCA regulatory threshold of 50 milligrams per kilogram (mg/kg) in the berm on the southern portion of the Site both above and below base elevation (FEC

2020). Available analytical data pertaining to the Site were mapped, and volumes for a removal action were estimated by use of a 30- by 30-foot (30'x30') grid in the area of the berm (Figure 2, Appendix A). Additionally, START used available analytical data to determine if the soil within each grid would need to be disposed of at a Resource Conservation and Recovery Act (RCRA) Subtitle D landfill (Total PCB concentrations less than 50 milligrams per kilogram [mg/kg]) or RCRA Subtitle C landfill (Total PCB Concentrations greater than 50 mg/kg) (Figure 2, Appendix A).

EPA produced and approved an Action Memorandum (dated March 15, 2022) based on the investigations performed at the Site and proposed the removal of approximately 8,000 tons of metal- and PCB-contaminated soil that exhibited concentrations above the RCLs (EPA 2022).

3.0 REMOVAL ACTION ACTIVITIES

On-site removal action activities took place from September 19 to December 6, 2022. In support of the time-critical removal action at the Site, Tetra Tech START completed the following activities as tasked by EPA:

- Developed and implemented site-specific plans, including the AMP (Tetra Tech 2022a), ECP (Tetra Tech 2022b), SAP (Tetra Tech 2022c), and HASP (Tetra Tech 2022d).
- Performed oversight of the removal activities conducted by the Emergency and Rapid Response Services (ERRS) contractor.
- Documented sampling activities and sampling locations via photographs, digital data capture forms, and written field notes.
- Performed real-time air quality monitoring and collected air samples to verify that site workers and workers at nearby commercial properties were not exposed to lead and arsenic in dust at concentrations exceeding occupational exposure limits.
- Collected investigative surface and subsurface soil samples from four soil borings advanced into the on-site earthen berm to fill spatial data gaps at the Site.
- Collected composite waste characterization samples from soils at the Site to obtain waste profiles for disposal of materials going to Subtitle D (non-hazardous) or Subtitle C (Toxic Substances Control Act [TSCA] hazardous) landfills.
- Collected confirmatory soil samples from excavation areas to verify removal of polychlorinated biphenyls (PCB) at concentrations greater than 50 parts per million (ppm) as specified in Title 40 of the *Code of Federal Regulations* (40 CFR) § 761.61 and documented any remaining areas with PCBs and metals present at concentrations above 40 CFR § 761.61 and Wisconsin Administrative (Wis. Admin.) Code Chapter NR720 cleanup standards for industrial properties.
- Collected backfill source samples to confirm fill material did not contain contamination above Wis. Admin. Code Chapter NR720 cleanup standards for industrial properties.
- Prepared data validation reports after receipt of final data packages from the laboratory.
- Installed and developed two replacement on-site monitoring wells.

In support of the time-critical removal action at the Site, the ERRS contractor completed the following activities as tasked by EPA:

- Provided site-specific plans, including a HASP;
- Deconstructed and re-located outdoor fencing, Astroturf, and play structures on-site;
- Removed groundwater monitoring wells;
- Excavated and treated contaminated soils;

- Arranged for off-site transportation and disposal of wastes; and
- Restored the Site following the completion of excavation.

This section discusses plans prepared for the Site, Site preparation activities, oversight and documentation, air quality monitoring, air and soil sampling, waste removal, transport and disposal, and backfill and restoration.

3.1 SITE PLANS

Prior to the start of the removal action, ERRS and START developed site plans that were implemented during the removal action. START amended the existing ERRS site-specific Health and Safety Plan to include air monitoring and sampling activities planned under the removal action. START prepared a HASP to cover sampling activities not included in the ERRS HASP (Tetra Tech 2022d). The HASPs detailed the hazards for each task performed, including the site-related contaminants of concern and health and safety protocols. The HASPs also described proper personal protective equipment (PPE) used on a task-by-task basis, as well as emergency procedures related to the work.

START developed the site-specific AMP, ECP, and SAP (Tetra Tech 2022a, 2022b, 2022c) prior to the removal action. The ECP summarized the emergency protocols that were to be put in place during the removal action activities. The AMP described the air monitoring activities that were to be used to assess and mitigate off-site migration of airborne contaminants and document and assess worker safety. The SAP summarized the proposed sampling and methodologies to be completed in association with removal activities at the Site.

3.2 SITE PREPARATION

On September 8, 2022, EPA, ERRS, and START conducted an initial site walk. During the site walk, the location of the support zone and truck access routes were established in consultation with the tenant.

EPA, ERRS, and START mobilized to the Site on September 19, 2022. During the initial phase of the removal action, ERRS conducted general site setup activities, including removing fencing and turf from outdoor dog play areas, re-locating play structures, removing vegetation throughout the Site, maintaining and preparing equipment, setting up the field office trailer, and establishing exclusion zones, a contaminant reduction zone, and a support zone.

On September 23 and 27, 2022, ERRS abandoned two monitoring wells on the Site. Well casings and liners were removed using the front-end loader. The wells were filled with bentonite chips, which were hydrated to expand and fill the hole completely.

3.3 OVERSIGHT AND DOCUMENTATION

START conducted written, digital, and photographic documentation of removal activities throughout the removal action. START personnel recorded daily weather conditions, ERRS contractor activities, START sampling and monitoring activities, and waste disposal events in the field logbook. START also utilized digital data collection tools and maintained digital records of air quality monitoring data, laboratory analytical results, field screening data, and photographic documentation. START field notes are provided in Appendix B. Representative site photographs are presented in Appendix C. Digital data collection and management were conducted in accordance with the EPA Region 5 Data Management Plan Revision 4 (DMP) (Tetra Tech 2021).

3.4 AIR QUALITY MONITORING

START conducted air quality monitoring to ensure Site dust suppression practices implemented by ERRS during the excavation of contaminated soil were sufficient to prevent the off-site migration of contaminants and assess worker safety. Air quality monitoring for particulate matter was conducted during working hours throughout excavation activities from September 19 to November 30, 2022. Air monitoring was not conducted during rain and snow or backfilling and site restoration activities. Air monitoring activities were performed in accordance with the site-specific AMP (Tetra Tech 2022a).

START deployed three air quality monitoring stations at the Site based on daily wind direction and location of removal activities. One station was deployed upwind of the removal activities (upwind station), one station was deployed downwind of the removal activities (downwind station), and one station was deployed at the entrance of the dog boarding and grooming facility closest to the removal activities (building entrance). Each air monitoring station consisted of a TSI DustTrak DRX (DustTrak). Due to equipment issues, the upwind station was not operational until September 26, 2022.

DustTrak aerosol monitors were utilized during the removal action to monitor particulate matter concentrations down to 0.001 milligrams per cubic meter (mg/m³) for particles with aerodynamic diameters of 1, 2.5, 4, and 10 microns in diameter or less. Each DustTrak was connected to a telemetry system (EPA Environmental Response Team [ERT] VIPER) to record and monitor particulate levels in ambient air.

Particulate concentrations were recorded as 8-hour time-weighted averages (TWA) for total particulate matter. A summary table presenting air monitoring results is presented in Appendix D.

Using VIPER, START established alerts for site-specific warning (1.5 mg/m³) and/or action level (2.5 mg/m³) exceedances, as specified in the AMP. If an alert was received, START would evaluate the data and equipment to ensure the exceedance was not caused by an equipment malfunction. If an alert was determined to be legitimate, START notified the EPA OSC, and work was stopped until dust suppression measures were implemented.

3.5 SAMPLING AND ANALYSIS

Multiple soil and air sampling events were conducted by START throughout the removal action. Investigative soil sampling occurred in four locations to fill spatial data gaps at the Site. Waste characterization samples were collected to develop waste profiles and to verify the efficacy of the lead stabilizing agent utilized by ERRS during the removal action to treat highly contaminated soil. Confirmatory and fence-line trench soil samples were collected to evaluate the removal of soil with PCBs and metals contamination and document remaining areas with PCBs or metals at concentrations above action levels. Backfill samples were collected to confirm that fill material did not contain contamination exceeding Wis. Admin. Code Chapter NR720 cleanup standards for industrial properties. Air samples were collected to verify that site workers and nearby commercial workers were not exposed to lead and arsenic at concentrations exceeding occupational limits.

All sampling activities were performed in accordance with the site-specific SAP (Tetra Tech 2022c). START handled and packaged all samples in accordance with Tetra Tech's Quality Assurance Project Plan (QAPP) for START (Tetra Tech 2022e). All analytical results for samples collected in support of the removal action were uploaded into the SCRIBE database. Additional details regarding the sampling events are presented in the following sections.

3.5.1 INVESTIGATIVE SOIL SAMPLING AND ANALYSIS

On September 21, 2022, prior to the start of ERRS excavation activities, START and EPA Field Environmental Decision Support Team (FIELDS) personnel collected four surface and ten subsurface soil samples from onsite sampling grids. Soil samples were collected within four grids without historical sampling data: A2, C2, C3, and D1. EPA FIELDS conducted an elevation surveying and advanced soil borings using an EPA-owned skid steer-mounted Geoprobe direct-push drill rig (Geoprobe). The Geoprobe

was decontaminated using Liquinox detergent and deionized water following the work at each boring location. All soil cuttings that remained after the samples had been collected were returned to the boreholes.

The site-specific SAP stated one soil boring would be advanced to an estimated depth of 5 feet below ground surface (bgs) or from 632 feet amsl to a depth of 627 feet amsl in each grid cell identified for sampling. However, refusal was encountered at 629 feet amsl in multiple locations. Therefore, borings were only advanced to an estimated depth of 629 feet amsl.

Soil at each boring location was continuously collected within disposable Macro-Core® sample tube polyvinyl chloride (PVC) liners. Unique PVC liners were used for each soil boring; therefore, no equipment blank rinsate sample was collected. Soil samples were collected within each 1-foot depth interval for three composite samples per boring.

Samples were submitted to ALS Environmental (ALS) in Holland, Michigan, for analysis of PCBs via EPA Method SW-8082. Upon receipt of the analytical data package from the laboratory, START conducted Stage 1 data verification for investigative sample results and provided the findings to EPA in a Data Verification Report (Tetra Tech 2022f). No investigative soil samples contained PCBs at concentrations exceeding the TSCA Regulatory Level of 50 mg/kg. Table 1 of Appendix E provides a summary of analytical results from investigative soil samples; the laboratory analytical report is provided in Attachment 1. Investigative soil boring locations and results are depicted on Figure 3 in Appendix A.

3.5.2 WASTE CHARACTERIZATION AND TREATED SOIL SAMPLING AND ANALYSIS

Before transporting contaminated soils off-site, START collected composite soil samples on behalf of ERRS to obtain waste profiles for waste streams sent to the Subtitle D and C landfills for disposal. All waste characterization and treated soil samples were sent to CT Laboratories in Baraboo, Wisconsin.

START collected a soil sample for characterization of the Subtitle D waste stream on September 8, 2022, during the pre-removal action site walk. START collected one soil sample for characterization of the Subtitle C waste stream on September 26, 2022, and three additional samples on October 12, 2022. START screened the Subtitle C samples for PCBs in the field using a Dexsil® Chlor-N-Soil Kit to confirm the total PCB concentration was greater than 50 mg/kg before sending samples to the laboratory. Laboratory analytical results of the Subtitle C samples indicated that toxicity characteristic leaching procedure (TCLP) lead was present at concentrations exceeding the toxicity characteristic concentration of 5 milligrams per liter (mg/L) at concentrations as high as 17 mg/L.

Due to the elevated TCLP lead concentration in the Subtitle C waste characterization samples, ERRS mixed (FreeFlow200), a lead stabilizing agent, with Subtitle C soils to reduce leachability of the lead-contaminated soil and reduce off-site disposal costs. To confirm the efficacy of the treatment, START collected additional samples of the treated material on October 20 and 21, 2022. The analytical results for the treated soil samples indicated that TCLP lead concentrations decreased to below 5 mg/L.

The laboratory analytical results were provided to ERRS, who subsequently sent the results to the landfills for review and approval. Table 2 of Appendix E provides a summary of sample IDs, waste type, sample location, and analyses for soil samples collected for waste characterization. START conducted Stage 1 data verification for waste characterization and treated soil sample results and provided the findings to EPA in a Data Verification Report (Tetra Tech 2022f). Laboratory analytical reports for waste characterization and treated soil samples are provided in Attachment 2. Sample aliquot locations of three composite soil samples are depicted in Figure 4 of Appendix A.

3.5.3 CONFIRMATORY SOIL SAMPLING

Following initial excavation activities performed by ERRS, START conducted two rounds of confirmation sampling: an initial round from 629 to 627 feet amsl and a final round at 627 feet amsl. The initial and final confirmation soil sampling activities are described below.

3.5.3.1 Initial Confirmatory Soil Sampling

START conducted confirmatory soil sampling from ground elevation to 2 feet bgs (629 to 627 feet amsl) to determine if concentrations of PCBs and metals warranted further excavation and determine the waste stream if excavation was required. Between October 14 and 24, 2022, START collected initial confirmatory samples within each 30'x30' grid cell within two depth intervals – 0 to 1 foot bgs (629 to 628 feet amsl) and 1 to 2 feet bgs (628 to 627 feet amsl). One composite soil sample was collected from each depth interval, which consisted of five individual aliquots of soil spaced relatively equal throughout the grid cell area. Aliquots were collected using hand trowels to take material from the walls of test pits created by the ERRS excavator. Two additional confirmation soil samples outside of the 30x30 grid were taken at 628 feet amsl along the tree lines on the east and west property borders. The sample location on the east property line is denoted “H1,” and the sample location on the west property line is denoted “A2A3A4.”

Initial confirmation samples were sent to Eurofins Canton in Barberton, Ohio, for analysis of PCBs via EPA Method SW-8082 and RCRA 8 metals via EPA Methods 6010/7471. Upon receipt of the laboratory analytical data package, START conducted Stage 1 data verification for initial confirmation sample results

and provided the findings to EPA in a Data Verification Report (Tetra Tech 2022f). Laboratory analytical reports are provided in Attachment 3. The results and locations of confirmation samples collected from 629 to 628 feet amsl are depicted in Figure 5 of Appendix A; the results and locations of confirmation samples collected from 628 to 627 feet amsl are depicted in Figure 6 of Appendix A. Table 3 of Appendix E provides a summary of confirmation soil sample IDs, sampling dates, depths, and analytical results.

3.5.3.2 Final Confirmatory Soil Sampling

Results of the initial confirmation samples indicated that PCBs and metals were present at concentrations exceeding the Wis. Admin. Code Chapter NR720 cleanup standards for industrial properties from 629 to 627 feet amsl. Therefore, ERRS excavated an additional two feet of material across the Site to a final elevation of 627 feet amsl. START collected additional surface soil confirmation samples at 627 feet amsl to determine where PCB contamination remained above 25 mg/kg and a cap, consisting of a Bentomat® CLT geosynthetic clay liner (GCL), would be required before backfilling.

Sampling occurred between October 24 and November 3, 2022, in each 30'x30' grid cell. One composite sample was collected from the surface of each grid and consisted of five aliquots of soil spaced relatively equal throughout the grid cell area. Final confirmation sample locations and results are depicted in Figure 7 of Appendix A.

All final confirmation soil samples at 627 feet amsl were sent to SGS Laboratory (SGS) in Dayton, New Jersey, for analysis of PCBs and to ALS in Holland, Michigan, for analysis of RCRA 8 metals. START conducted Stage 2a data validation for confirmation sample results and provided the findings to EPA in Data Validation Reports (Tetra Tech 2022g, 2022h). Table 4 of Appendix E provides a summary of final confirmation sample analytical results. Laboratory analytical reports for confirmation samples are provided in Attachment 4 and Attachment 5.

3.5.4 FENCE-LINE SAMPLING

At the direction of the OSC, additional soil samples were collected from trenches where new fences would be installed in grids with remaining PCB contamination greater than 25 mg/kg. Two additional feet of soil was removed along planned fence lines in grids A3, B3, C3, D3, and E3 to prevent fence posts from puncturing the cap at 627 feet amsl. On November 3 and 7, 2022, START collected samples from trenches at 625 feet amsl for metals analysis to document remaining concentrations in soil and PCB analysis to determine if a cap would be required before backfilling the trenches with sand. One composite surface

sample was collected from each trench and consisted of five individual aliquots of soil spaced relatively equal throughout the trench area. Sample locations and results are depicted in Figure 8 of Appendix A.

Fence-line samples were sent to Eurofins Canton in Barberton, Ohio, for analysis of PCBs and RCRA 8 metals. START conducted Stage 1 data verification for fence-line sample results and provided the findings to EPA in a Data Validation Report (Tetra Tech 2022f). Table 5 of Appendix E provides a summary of fence-line trench sample analytical results at 625 feet amsl. Laboratory analytical reports for fence-line trench samples are provided in Attachment 6.

3.5.5 BACKFILL SAMPLING

On October 20, 2022, START collected composite samples of the backfill material to be used on-site to confirm that the material did not contain contamination above Wis. Admin. Code Chapter NR720 cleanup standards for industrial areas. Samples were collected from the Lannon Stone Producers' Lannon Quarry in Lannon, Wisconsin, and Lisbon Pit in Sussex, Wisconsin. Composite backfill soil samples consisted of five aliquots collected from sampling piles provided by Lannon Stone Producers. Samples were sent to CT Laboratories in Baraboo, Wisconsin, for analysis of PCBs, RCRA 8 metals, VOCs, semi-volatile organic compounds (SVOC), and pH. START conducted Stage 3 data validation for backfill sample results and provided the findings to EPA in a Data Validation Report (Tetra Tech 2022i). Analytical results for backfill samples are presented in Table 6 of Appendix E. Backfill material was certified clean prior to being placed onsite. Approximately 3,018 tons of backfill material were utilized to restore the Site.

3.5.6 AIR SAMPLING

Perimeter air sampling was conducted to 1) determine if site-related dust was migrating offsite and 2) to determine if lead and arsenic concentrations in the dust exceeded occupational exposure levels. Perimeter air sampling was conducted during working hours throughout removal activities from September 19 to November 30, 2022, except in rain and snow. After November 9, 2022, air samples were only collected on days that hazardous material was being moved and were not collected during backfilling activities. START collected three air samples daily at the Site based on daily wind direction and location of removal activities. One sample was deployed upwind of the removal activity (upwind sample), one sample was deployed downwind of the removal activity (downwind sample), and one sample was deployed at the entrance of the dog boarding and grooming facility closest to the removal activity (building entrance sample).

Air samples were collected using GilAir5 low-flow air sampling pumps equipped with 0.8 micrometer (μm) mixed cellulose ester (MCE) filters. The GilAir5 air sampling pumps were calibrated using a BIOS DryCal Air Flow Calibrator to a pumping rate of approximately 2 liters per minute before each sampling event.

Flow rates were checked again for any change at the end of each sampling period and averaged to calculate the daily flow rate and sample volume.

Samples from the first three days on-site, before excavation activities began, were submitted to Eurofins J3 Laboratory (J3) in Pasadena, Texas, for analysis of lead and arsenic via National Institute of Occupational Safety and Health (NIOSH) Method 7303. Additionally, samples from the first four days of excavation representative of field conditions during removal activities were submitted to J3 for lead and arsenic analyses via NIOSH Method 7303. Upon receipt of the laboratory analytical data packages, START conducted Stage 2a data validation for air sample results and provided the findings to EPA in a Data Validation Report (Tetra Tech 2022j). Laboratory analytical reports for air samples are provided in Attachment 7. Table 7 of Appendix E provides a summary of air sample analytical results.

After the first three days that air samples were collected during excavation activities, all air samples were collected and cataloged until the end of the project. Air samples were only submitted for laboratory analysis if the total particulate 8-hour TWA exceeded the action level of 2.5 mg/m³. No 8-hour TWA exceedances occurred; therefore, no additional air samples were submitted for laboratory analysis.

3.6 FIELD DATA COLLECTION IN SUPPORT OF SAMPLING AND EXCAVATION ACTIVITIES

Throughout the removal action, START collected field data in support of removal activities. Elevation surveys of the excavation areas were conducted before, during, and after removal to track elevation within excavation areas. Field screening for PCBs and metals was conducted to obtain preliminary assessments of remaining contamination. Field data collection was performed according to the site-specific SAP (Tetra Tech 2022c).

3.6.1 EXCAVATION SURVEYING

Throughout the removal action, START collected elevation measurements using a Leica Rugby 880 laser level and survey pole to ensure excavation depths established in the Action Memorandum were met, communicate progress with the ERRS excavator operator, and identify the location of contamination based on historical sampling data. On September 21, 2022, EPA FIELDs established five static benchmark locations and elevations to use as control points for excavation surveys. EPA FIELDs used a Leica RTK system with 2 cm vertical accuracy to establish the benchmark. They then compared it to Milwaukee County (Light Detection and Ranging) LIDAR data (1 cm vertical accuracy) to confirm the accuracy.

Prior to excavation activities, START collected pre-excavation surveys that consisted of five points in each 30'x30' grid cell. Pre-excavation surveys were conducted in each grid cell, except for cell C3, where excavation had begun before START could collect pre-excavation surveys. After backfilling, START collected final elevation surveys in each grid cell that consisted of five points. Survey information was recorded in ESRI's Survey123 application according to procedures outlined in the EPA Region 5 DMP (Tetra Tech 2021).

3.6.2 FIELD SCREENING FOR PCBS

During final and fence-line confirmation sampling, START conducted field screening to obtain a preliminary assessment of remaining PCB contamination across the Site before sending samples to laboratories. The field screening also aided in estimating the quantity of cap material that would need to be ordered.

Samples were screened using a Dexsil® Clorn-N-Soil PCB Screening Kit for soil capable of detecting PCBs in soil below or above 50 mg/kg. START conducted screening per the manufacturer's instructions provided in the kits (Dexsil 2009). PCB concentrations were estimated according to the provided Dexsil® color matching chart (Dexsil 2009). Estimated concentrations were logged in the field logbook and subsequently entered into the SCRIBE database.

3.6.3 FIELD SCREENING FOR METALS

START conducted field screening of waste characterization, treated waste characterization, confirmation, and fence-line samples for lead, arsenic, and cadmium to obtain a preliminary assessment of metal contamination across the Site before sending samples to laboratories. The field screening was primarily used to determine the volume of soils between 629 feet amls and 627 feet amls that would likely need to be removed.

Samples were screened using the Olympus Vanta Family (Vanta) X-Ray Fluorescence (XRF) Analyzer. XRF screenings were conducted using the Geochem 3-Beam setting in soil mode. At the beginning and end of each day, START screened the silicon Olympus Blank and the National Institute Standards of Technology (NIST) Standard Olympus 2711A to verify the accuracy of the instrument. Samples were homogenized in re-sealable plastic bags and were screened five times in a different place of the bag each screening. Duplicate measurements were recorded for every ten screenings conducted. Results for concentrations of lead, arsenic, and cadmium were recorded in an excel workbook and were subsequently entered into the SCRIBE database.

3.7 WASTE REMOVAL

Following all Site setup activities, including the demarcation of excavation limits determined during the 2021 removal assessment and specified in the Action Memo, ERRS began excavating non-hazardous, Subtitle D soil on September 26, 2022. ERRS excavated materials to an elevation of 629 feet amsl, the approximate ground surface elevation at the Site. Non-hazardous waste was stockpiled on-site until trucks began arriving to remove the material on September 29, 2022. The stockpile was covered with a vinyl poly-cover material at the end of each workday to prevent off-site migration.

On October 4, 2022, ERRS began excavating Subtitle C grids. Subtitle C material was stockpiled on-site on top of a vinyl poly-cover and was staged separately from the non-hazardous stockpile. All material excavated from the fence-line trench excavation was also added to the Subtitle C stockpile. Subtitle C material remained stockpiled on-site until trucks began arriving to remove the material on November 21, 2022. The stockpile was covered with a vinyl poly-cover material at the end of each workday to prevent off-site migration.

ERRS treated approximately 906 tons of Subtitle C material for TCLP lead contamination using FreeFlow200. Hazardous lead-contaminated soil was treated by mixing FreeFlow200 into stockpiled material using the excavator until the color of the pile appeared uniform throughout. See section 3.5.2 for details on collecting samples of the treated material.

3.8 TRANSPORT AND DISPOSAL

Throughout excavation activities, non-hazardous Subtitle D and TSCA PCB Subtitle C waste was transported off-site for disposal. Approximately 7,716 tons of Subtitle D waste was transported off-site to Green for Life (GFL) Emerald Park Landfill in Muskego, Wisconsin, between September 29 and November 7, 2022. Approximately 906 tons of Subtitle C waste was transported off-site to the Heritage Environmental Services hazardous waste landfill in Roachdale, Indiana, between November 21 and 30, 2022. Transport and disposal activities are summarized in the table below:

Waste Stream	Truck Loads	Quantity (Tons)	Manifest Number	Treatment	Disposal Facility
Subtitle D Waste	328	7,716.60	Multiple	None	GFL Emerald Park, Muskego, WI
TSCA Subtitle C Waste	40	906.08	Multiple	FreeFlow200	Heritage, Roachdale, IN

3.9 SITE RESTORATION AND DEMOBILIZATION

Following excavation activities, ERRS filled all fence line trenches with clean backfill sand to bring the elevation to 627 feet amsl. ERRS placed a cap at 627 feet amsl in grid cells with residual PCB concentrations greater than 25 mg/kg in accordance with the Action Memorandum (EPA 2022). The Bentomat® CLT GCL cap material used provides a low-permeability seal that meets the permeability requirements in 40 CFR § 761.61. For ease of application, a cap was also placed in cell G3, although remaining PCB concentrations did not exceed 25 mg/kg. Due to excess material, a cap was also placed in cells C1, D1, E1, C2, D2, and E2, where Subtitle C material was previously stockpiled but remaining PCB concentrations did not exceed 25 mg/kg. No cap was required in fence line trenches at 625 feet amsl. The grids where a cap was installed are depicted in Figure 9 of Appendix A.

ERRS installed an orange warning barrier geotextile (US 65HVO Warning Barrier) in all grids at 627 feet amsl. The warning barrier was also placed over the cap in grid cells with a cap. The warning barrier will provide a separation between clean material and contaminated material to prevent any material from migrating upwards and to warn future owners of the Site of potential hazards.

After installing the orange warning barrier, bedding sand was used to raise the site elevation to 629 feet amsl. The bedding sand was compacted along the perimeter of the Site. Within the Site heavy equipment was used to perform compaction. Approximately 3,018 tons of backfill material was used on the Site. Backfilling was completed on December 5, 2022. After backfilling, ERRS spread approximately 200 yards of mulch to promote vegetation and act as an erosion cap. Mulch was spread in areas where new AstroTurf would not be installed. Per an agreement with the property tenant, ERRS did not reinstall fencing, AstroTurf, or play structures on the Site.

On December 5, 2022, Earth Solutions Inc. installed two groundwater monitoring wells to replace the wells that were removed prior to excavation activities. The wells were one inch in diameter with ten-foot screens and were advanced to 18 feet bgs. The wells were purged for fifteen minutes until water ran clear to confirm that the wells reached groundwater. WI DNR monitoring well installation/development forms were completed and sent to WI DNR.

4.0 CONCLUSIONS

The scope of work for this time-critical removal action was to remove, transport, and dispose of potentially uncontrolled hazardous waste at EPA-approved disposal facilities in accordance with the EPA off-site Rule 40 CFR 300.440. Additionally, EPA took necessary response actions to address the release or threatened release of a hazardous substance, pollutant, or contaminant that may have posed an imminent and substantial endangerment to public health or the environment.

The immediate risk to public health or the environment from direct contact or exposure to potentially uncontrolled hazardous waste solids has been eliminated from the Site. It was accomplished through the collection, identification, and proper disposal of wastes at the Site.

5.0 REFERENCES

- Dexsil Corporation. 2009. Instructions for Clor-N-Soil PCB Screening Kit Test Kit for Determining PCB Contamination in Soil. Revision 3. December.
- Friess Environmental Consulting, Inc. (FEC). 2020. Additional Investigation and Soil Characterization Report for the Former Chudnow Iron & Metal Property. Prepared for State Street LLC. January 8.
- Tetra Tech, Inc. (Tetra Tech). 2021. Data Management Plan, Superfund Technical Assessment and Response Team (START V), Contract No. 68HE0519D0005, U.S. Environmental Protection Agency (EPA), Region 5, Revision 4. April.
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- Tetra Tech. 2022b. Emergency Contingency Plan, Revision 0 – Chudnow Metals Site, Milwaukee, Milwaukee County, Wisconsin. Prepared for EPA under Contract No. 68HE0519D0005. September.
- Tetra Tech. 2022c. Sampling and Analysis Plan, Revision 2 – Chudnow Metals Site, Milwaukee, Milwaukee County, Wisconsin. Prepared for EPA under Contract No. 68HE0519D0005. September
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- Tetra Tech. 2022e. Quality Assurance Project Plan (QAPP), Superfund Technical Assessment and Response Team (START V), Contract No. 68HE0519D0005, U.S. Environmental Protection Agency, Region 5, Revision 3. January.
- Tetra Tech. 2022f. Data Verification Report – DTN 1579. Chudnow Metals Site, Milwaukee, Milwaukee County, Wisconsin. Prepared for EPA under Contract No. 68HE0519D005. December.
- Tetra Tech. 2022g. Data Validation Report – DTN 1531. Chudnow Metals Site, Milwaukee, Milwaukee County, Wisconsin. Prepared for EPA under Contract No. 68HE0519D005. December.
- Tetra Tech. 2022h. Data Validation Report – DTN 1532. Chudnow Metals Site, Milwaukee, Milwaukee County, Wisconsin. Prepared for EPA under Contract No. 68HE0519D005. December.
- Tetra Tech. 2022i. Data Validation Report – DTN 1565. Chudnow Metals Site, Milwaukee, Milwaukee County, Wisconsin. Prepared for EPA under Contract No. 68HE0519D005. December.
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- U.S. Environmental Protection Agency (EPA). 2022. Memorandum Regarding Request for Approval and Funding for a Time-Critical Removal Action at the Chudnow Iron and Metal Co. Inc. Site, 5401 W State Street Milwaukee, Milwaukee County, Wisconsin 53208 (Site ID #C5SY). From Robert Kondreck, On-Scene Coordinator. To Douglas Ballotti, Director Superfund Division. March 15.

Wisconsin Department of Natural Resources (WI DNR). 2018. Contaminated Soil and Sediment, Soil Residual Contaminant Levels. December. <https://dnr.wisconsin.gov/topic/Brownfields/soil.html>

APPENDIX A

FIGURES

Figure 1 – Site Location Map

Figure 2 – Site Layout Map

Figure 3 – Investigative Soil Sample Locations

Figure 4 – Waste Characterization Sample Aliquot Locations

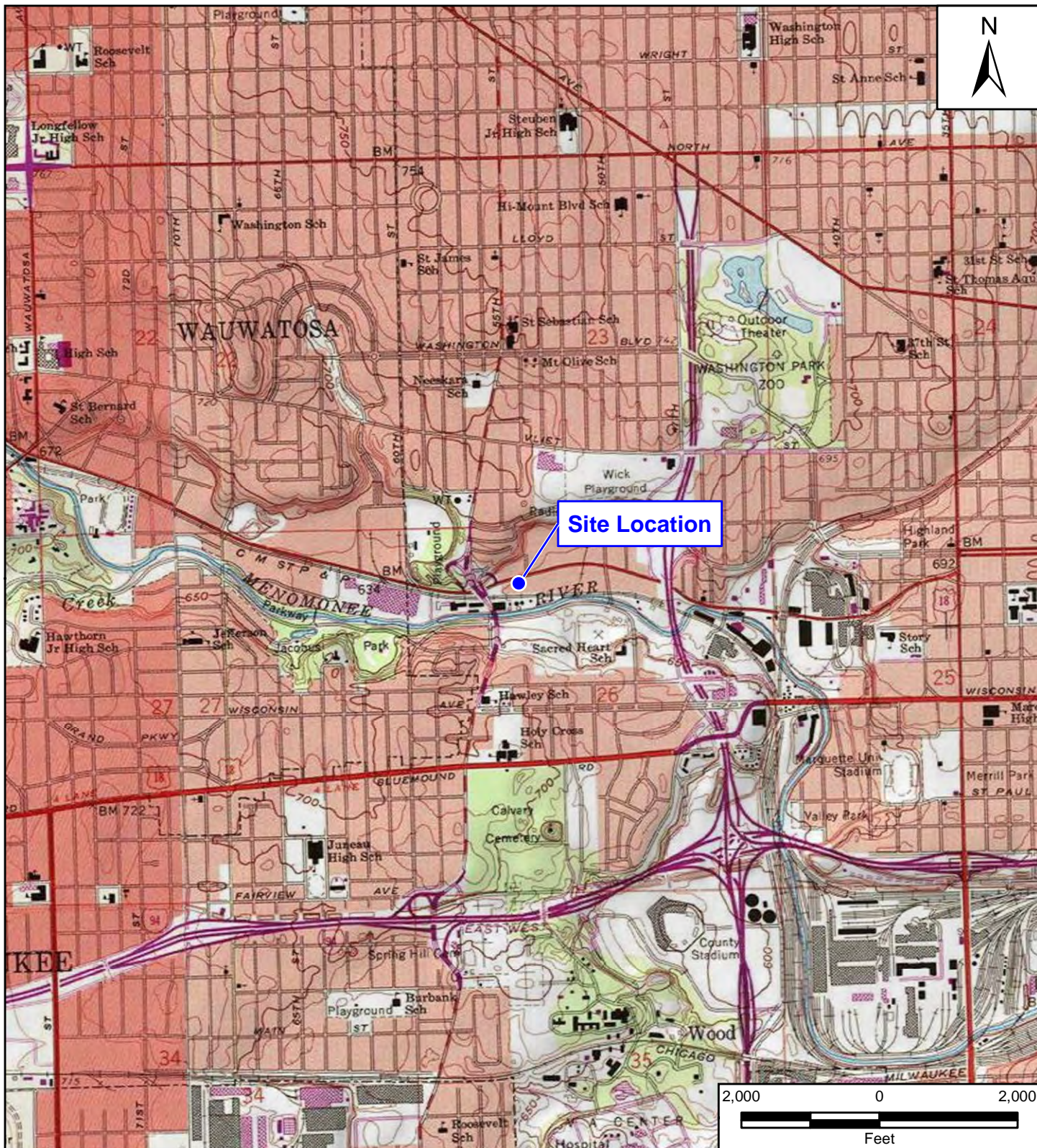
Figure 5 – Confirmation Sample Locations: 629-628 feet amsl

Figure 6 – Confirmation Sample locations: 628-627 feet amsl

Figure 7 – Confirmation Sample Locations: 627 feet amsl

Figure 8 – Fence Line Sample Locations

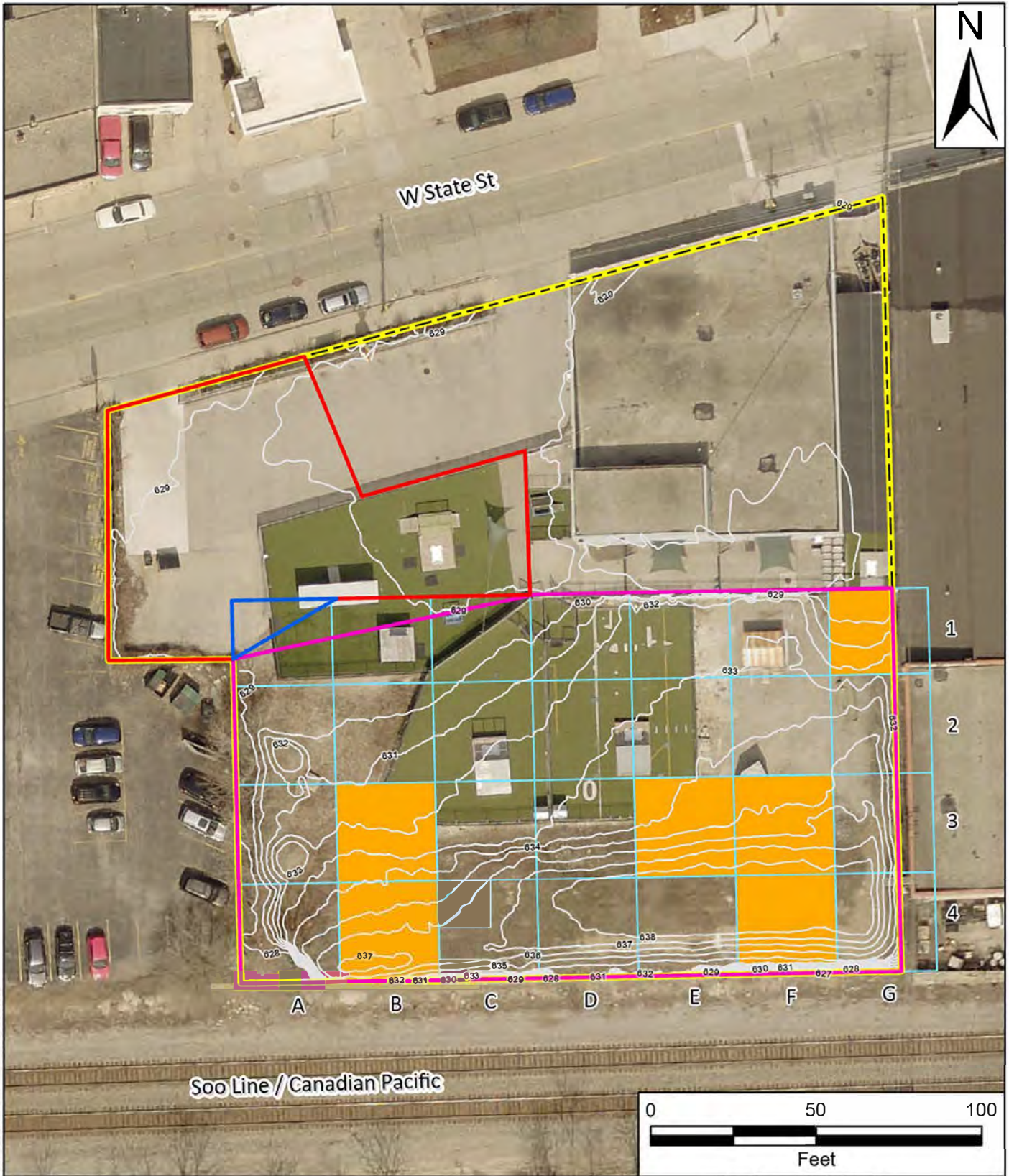
Figure 9 – Bentomat & Warning Barrier Locations



Source: USGS 7.5-Minute Topographic Quadrangle Map: Milwaukee, WI 1994

<p>Chudnow Metals Site 5401 West State Street Milwaukee, Milwaukee County, Wisconsin</p>	
<p>Figure 1 Site Location Map</p>	
Prepared For: US EPA	Prepared By: Tetra Tech

File Path: G:\G9031-START V\Wisconsin\Chudnow Metals\mxd\2021-11\Fig1-SiteLocation.mxd



Legend

- | | |
|--------------------------------|---|
| Approximate Site Boundary | Grid Cell Contains Subtitle C Soil (PCB > 50 ppm) |
| Excavation Area/Exclusion Zone | Grid - 30'x30' |
| Contamination Reduction Zone | Ground Elevation Contour |
| Support Zone | |

Notes:
PCBs = Polychlorinated biphenyls
ppm = parts per million
' = feet
> = greater than

Chudnow Metals Site
5401 West State Street
Milwaukee, Milwaukee County, Wisconsin

Figure 2
Site Layout



Prepared For: US EPA

Prepared By: Tetra Tech



W State St

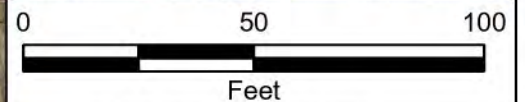
SB-C2	
Elevation (ft amsl)	Total PCB Result (mg/kg)
631.5-631	3.3
631-630	10
630-629	9.6

SB-D1	
Elevation (ft amsl)	Total PCB Result (mg/kg)
632-631	2.7
631-630	18
630-629	17

SB-A2	
Elevation (ft amsl)	Total PCB Result (mg/kg)
631-630	1.8
630-629	11

SB-C3	
Elevation (ft amsl)	Total PCB Result (mg/kg)
633-632	7
632-631	17
631-630	26
630-629	17

Soo Line / Canadian Pacific



Legend

- Soil Sample Locations
- ▭ Site Boundary
- ▭ Removal Area
- ▭ Grid - 30'x30'

Notes:
amsl - Above Mean Sea-level
ft = feet
mg/kg = milligram per kilogram
PCBs = Polychlorinated biphenyls

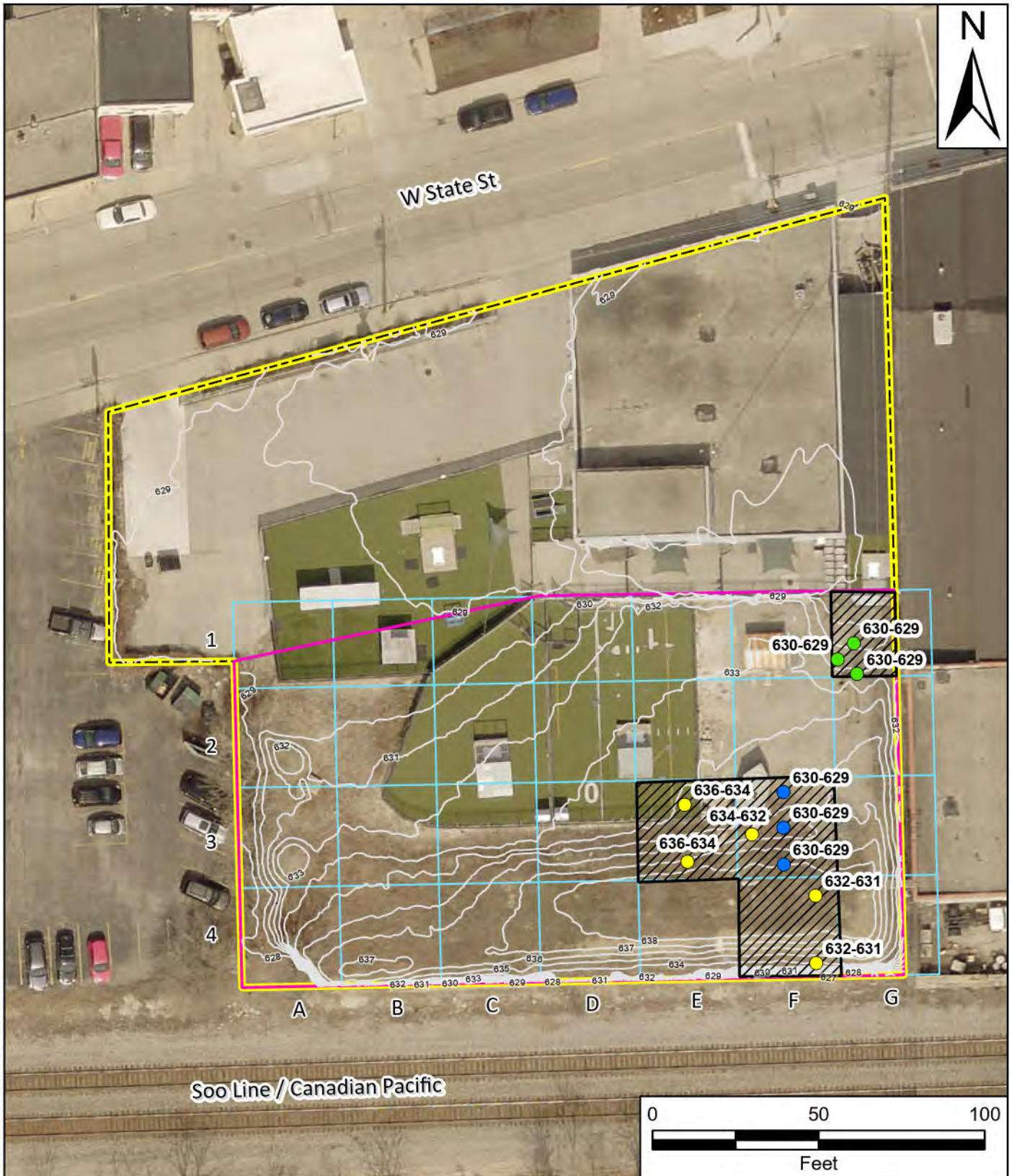
Chudnow Metals Site
5401 West State Street
Milwaukee, Milwaukee County, Wisconsin

Figure 3
Investigative Soil Sample Locations



Prepared For: US EPA

Prepared By: Tetra Tech



Legend

- CM-WC-SC-F3-221012, CM-WC-SC-TF3-221021, CM-WC-SC-TF3-221102
- CM-WC-SC-ST-221012, CM-WC-SC-TST-221021, CM-WC-SC-TST-221102
- CM-WC-SC-G1-220926/CM-WC-SC-G1-221012, CM-WC-SC-TG1-221021, CM-WC-SC-TG1-221102
- Site Boundary
- Removal Area
- Grid - 30'x30'
- Ground Elevation Contour
- Sampled Grids

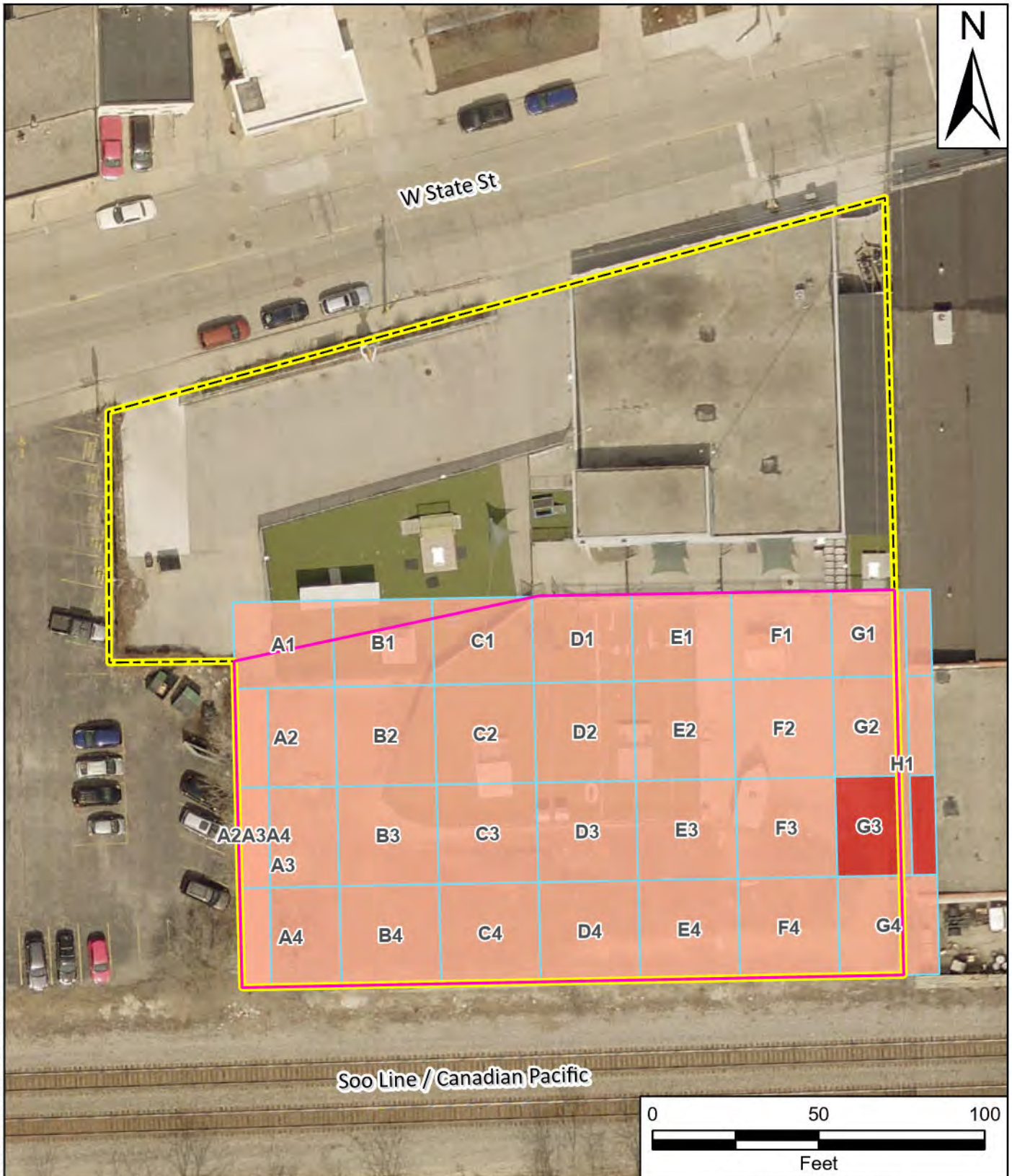
Chudnow Metals Site
5401 West State Street
Milwaukee, Milwaukee County, Wisconsin

Figure 4
Waste Characterization Sample
Aliquot Locations



Prepared For: US EPA

Prepared By: Tetra Tech



Legend

- Site Boundary
- Removal Area
- Grid - 30'x30'

Confirmation Samples

- Total PCBs (mg/kg)
- < 50 mg/kg
 - > 50 mg/kg

Notes:
amsl - Above Mean Sea-level
ft = feet
mg/kg = milligram per kilogram
PCBs = Polychlorinated biphenyls

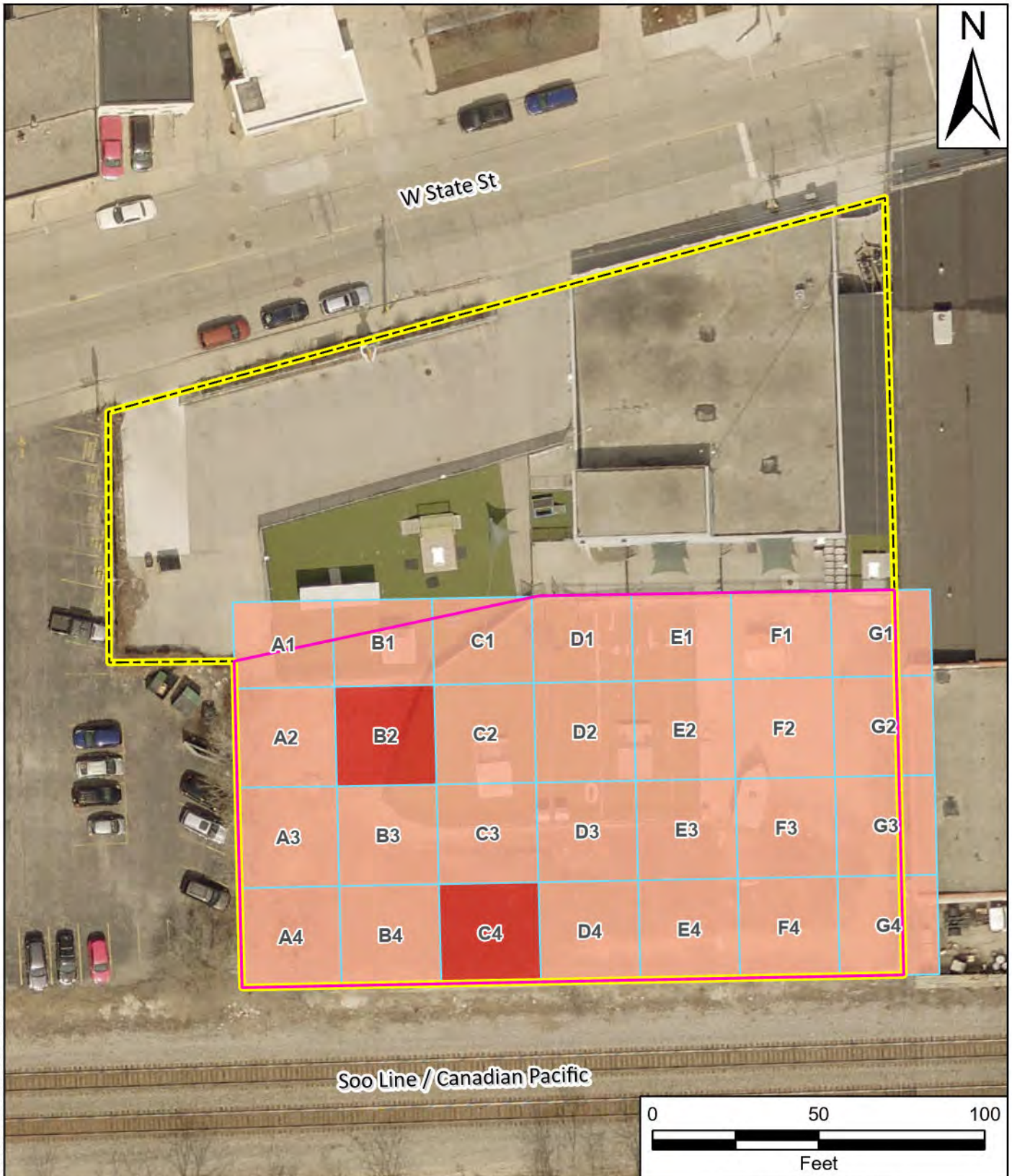
Chudnow Metals Site
5401 West State Street
Milwaukee, Milwaukee County, Wisconsin

Figure 5
Confirmation Sample Results: 629-628 ft amsl



Prepared For: US EPA

Prepared By: Tetra Tech



Legend

- Site Boundary
- Removal Area
- Grid - 30'x30'

Confirmation Samples

- Total PCBs (mg/kg)
- < 50 mg/kg
 - > 50 mg/kg

Notes:
amsl - Above Mean Sea-level
ft = feet
mg/kg = milligram per kilogram
PCBs = Polychlorinated biphenyls

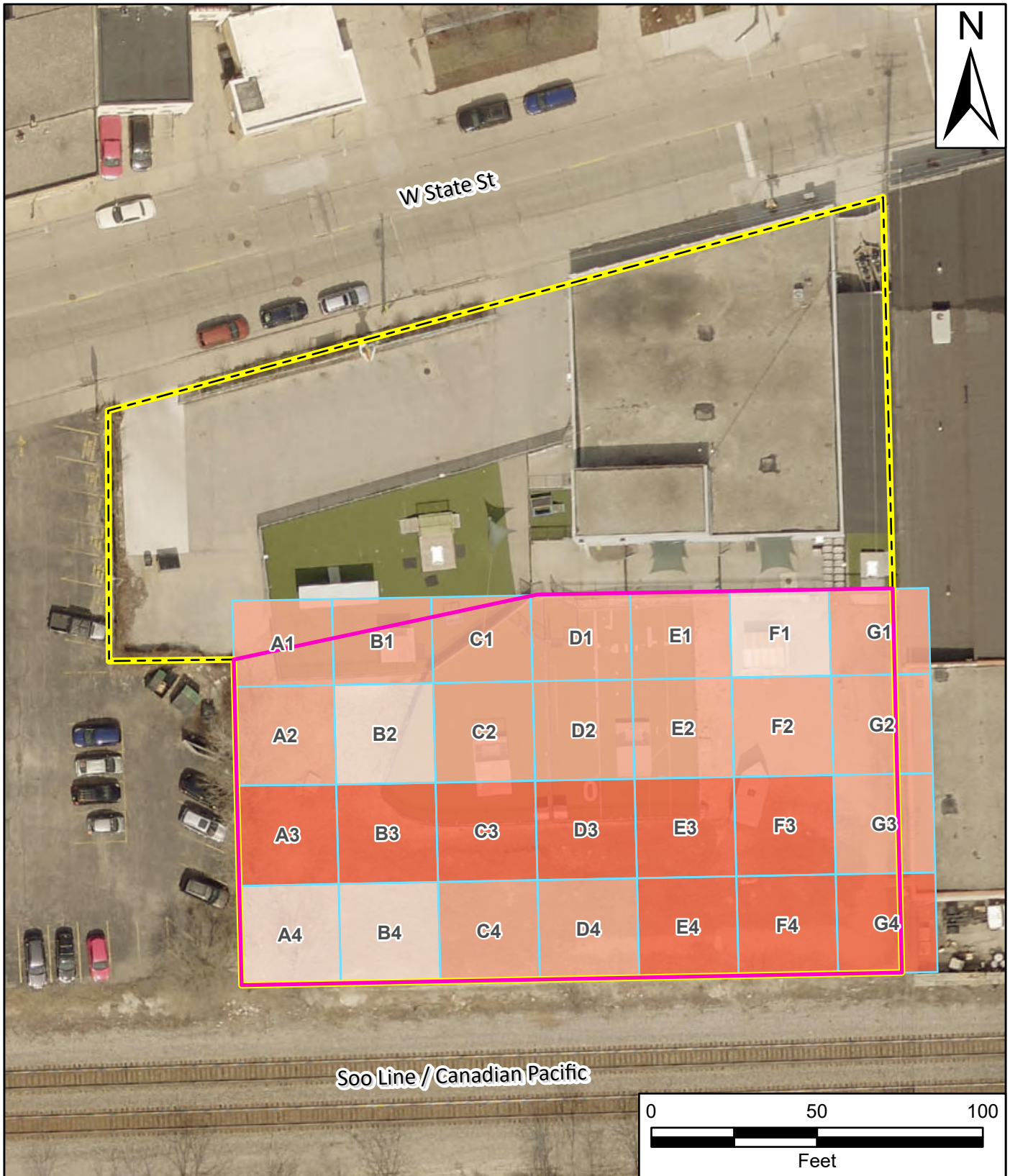
Chudnow Metals Site
5401 West State Street
Milwaukee, Milwaukee County, Wisconsin

Figure 6
Confirmation Sample Results: 628-627 ft amsl



Prepared For: US EPA

Prepared By: Tetra Tech



Legend

- Site Boundary
- Removal Area
- Grid - 30'x30'

Confirmation Samples

- Total PCBs (mg/kg)
- < 1.0 mg/kg
 - 1.0 - 25.0 mg/kg
 - 25-99 mg/kg

Notes:
amsl - Above Mean Sea-level
ft = feet
mg/kg = milligram per kilogram
PCBs = Polychlorinated biphenyls

Chudnow Metals Site
5401 West State Street
Milwaukee, Milwaukee County, Wisconsin

Figure 7
Confirmation Sample Results: 627 ft amsl



Prepared For: US EPA

Prepared By: Tetra Tech

C:\Users\JORDAN\Documents\ArcGIS\Projects\Chudnow Metals\Chudnow Metals.aprx

Date: 12/27/2022

EPA Contract No.: 68HE0519D005

TO/TOLIN: F0032-0001CJ106
F0032-0001DH108

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Units: Foot US



W State St

Sewer

MW12

A3-N/S	
Elevation (ft amsl)	Total PCB Result (mg/kg)
626	4.6

A3-E/W	
Elevation (ft amsl)	Total PCB Result (mg/kg)
625	2.5

C3-N/S	
Elevation (ft amsl)	Total PCB Result (mg/kg)
625	1.15

E3-N/S	
Elevation (ft amsl)	Total PCB Result (mg/kg)
625	0.077

E3-E/W	
Elevation (ft amsl)	Total PCB Result (mg/kg)
625	3.6

B3-E/W	
Elevation (ft amsl)	Total PCB Result (mg/kg)
625	0.62

C3-E/W	
Elevation (ft amsl)	Total PCB Result (mg/kg)
625	5.0

D3-E/W	
Elevation (ft amsl)	Total PCB Result (mg/kg)
625	0.52

A

B

C

D

E

F

G

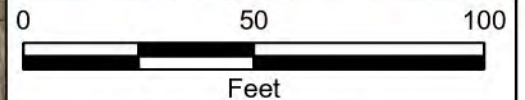
1

2

3

4

Soo Line / Canadian Pacific



Legend

- Fence Line Sample Locations
- Fence Posts
- MW12
- Sewer
- New Play Areas
- Gates
- Site Boundary
- Removal Area
- Grid - 30'x30'
- Sample exceeds Wisconsin Legislature Code Chapter 720 cleanup standards for industrial properties.

Notes:
amsl - Above Mean Sea-level
ft - feet
mg/kg - milligram per kilogram
PCBs - Polychlorinated biphenyls

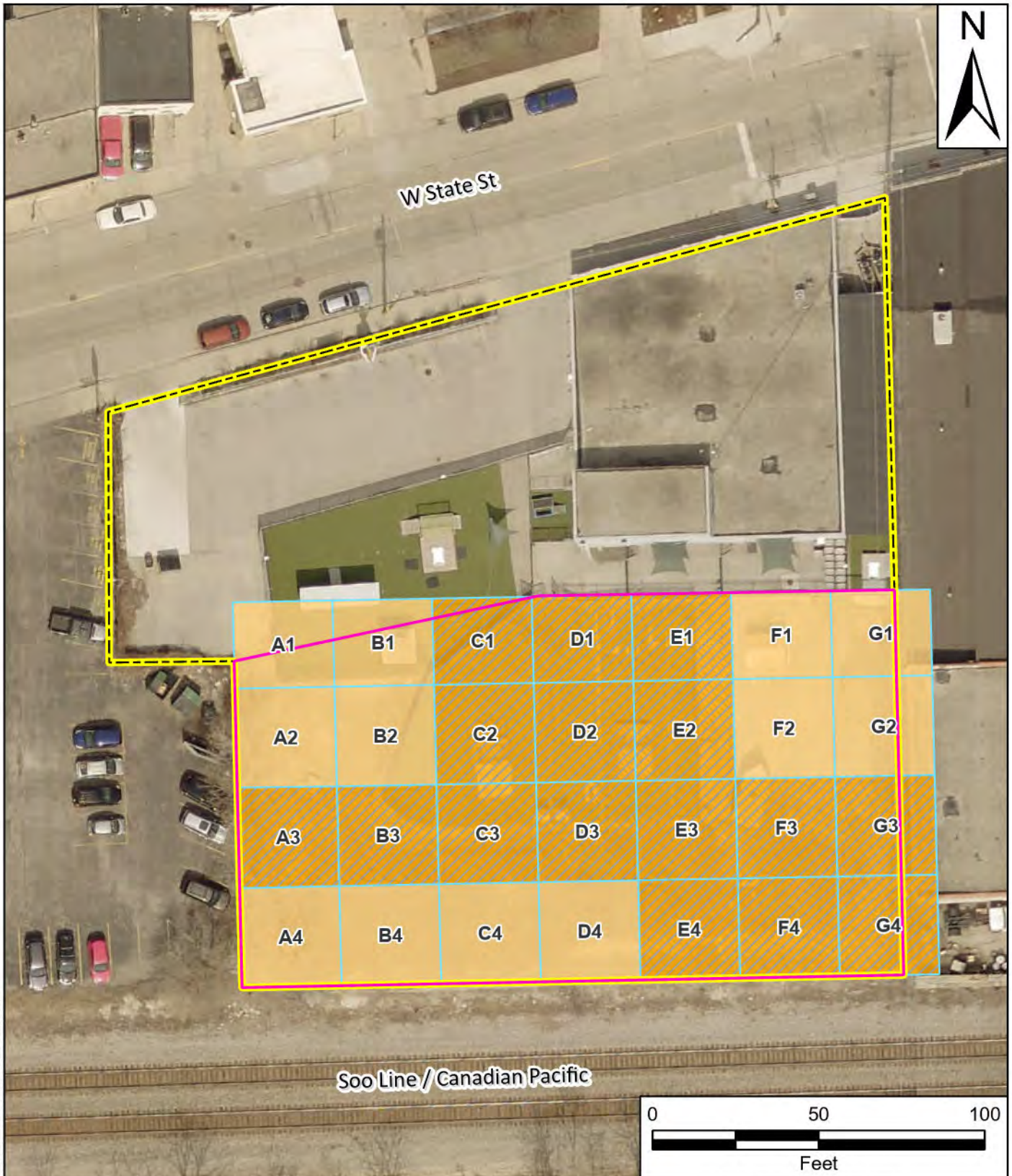
Chudnow Metals Site
5401 West State Street
Milwaukee, Milwaukee County, Wisconsin

Figure 8 Fence Line Sample Locations



Prepared For: US EPA

Prepared By: Tetra Tech



Legend

- Warning Barrier
- Bentomat & Warning Barrier
- Site Boundary
- Removal Area
- Grid - 30'x30'

Chudnow Metals Site
5401 West State Street
Milwaukee, Milwaukee County, Wisconsin

Figure 9
Bentomat & Warning Barrier Locations



Prepared For: US EPA

Prepared By: Tetra Tech

APPENDIX B
START LOGBOOK AND FIELD NOTES

**==DEFYING==
MOTHER NATURE®**

SINCE 1916



All components of
this product are recyclable

Rite in the Rain

A patented, environmentally
responsible, all-weather writing paper
that sheds water and enables you to
write anywhere, in any weather.

Using a pencil or all-weather pen,
Rite in the Rain ensures that your
notes survive the rigors of the field,
regardless of the conditions.

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US Pat No. 6,863,940



Chudnow RV
Logbook 1



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ALL-WEATHER

FIELD

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1

2

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5

6

EST. 1916

— EST. 1916 —
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== DEFYING MOTHER NATURE ==

Name _____

Address _____

Phone _____

Project _____



RiteintheRain.com

PAGE

REFERENCE

DATE _____

2 9/8/22 Chudnow Metals RV

845 START (Houle, Scholl) on-site.
weather: 72°, partly cloudy,
wind SW@3 mph, 64% humidity
0854 Start site walkthrough w/ property
owner agent, happy paws rep., ERS,
and EPA (OSCs + FIELDS)
- GPS equip on excavator to account
for elevation changes

Site heavily vegetated w/ gravel
cover. several monitoring wells on site.
retaining wall

- look into Milwaukee labs for PCB
confirmation sampling

1000 FIELDS staking boundaries for
grid cell E3. START to collect
waste characterization sample of
Subtitle D material from grid E3.

1008 Collect 5-pt composite sample
from grid E3

1040 Removal approach, stockpile
based on non-haz / TSCA material.
Stockpile to allow for sampling &
surveying.

Look into renting additional Dustraks
or getting from ERT

1100 ~~ERS~~ PH START offsite ——— RM

Chudnow Metals RV 9/19/22 3

0851 START (Houle) on-site. Weather:
66°, high 77°, sunny, winds
ENE@ 5-10 mph. 73%
humidity.

0900 ER, Happy Paws reps on-site.

0930 EPA (Hendrickson) on-site

0940 Will grab GPS coords of fencing
corners

0942 EPA (Kondreck) on-site, START (Scholl)
on-site

0955 Calibrating pumps

Pump#	Location	Flow	Start time
029	entrance	2.02	1106
028	downwind	2.05	1054
030	upwind	2.01	1048

1045 Setting up Dustraks
UV on ~~W~~ property boundary near
well
DN on E property boundary near
trailers

BE near SE corner of building
UV dustrak not zeroing. START
troubles hooking.

1120 EPA conducting RAD survey.
START collecting photos.

Rite in the Rain.

4 9/19/22 Chudnow metals RV

1145 START documenting fence condition. Some areas inside the kennels along base of fence are worn / damaged

1350 UPwind DRX-004 not working, needs factory troubleshooting

1415 per EPA, will use 2 DRXS at downwind and building locations, will still collect air samples from 3 locations

Note: ERRS generator placed near building entrance DRX
EPA conducted Rad survey - no readings above background

1430 START collected GPS points of corner exterior fence posts

1620 ERRS attempting to remove fence posts near play area 1

1645 Breaking down air monitoring: air sampling.

1711 START (Houle and Scholl) off-site

PH

Chudnow metals RV 9/20/2022 5

0700 START (Scholl) on site.

Weather: 64°, high 79°, cloudy, winds S 5 mph, 81% Humidity, chance of rain

- EPA (Hendrickson, Kondrick) on-site, ER on-site

0715 - Highest Reading from radiation survey conducted 9/19/2022: 20.4 rem, background: 5.4 rem

- chance of rain, won't set up air monitoring and sampling until afternoon

- ERRS continuing with fence removal activities

0800 ERRS beginning clearing vegetation on berm

0858 Vegetation removal completed, ERRS moving play structures

0913 Lightning strike to the north, work pausing until weather clears

1000 ERRS continuing turf removal

1113 START documenting condition of building adjacent in alley, some cracked and falling brickwork

Rite in the Rain

6 9/20/22

Chudnow metals RV

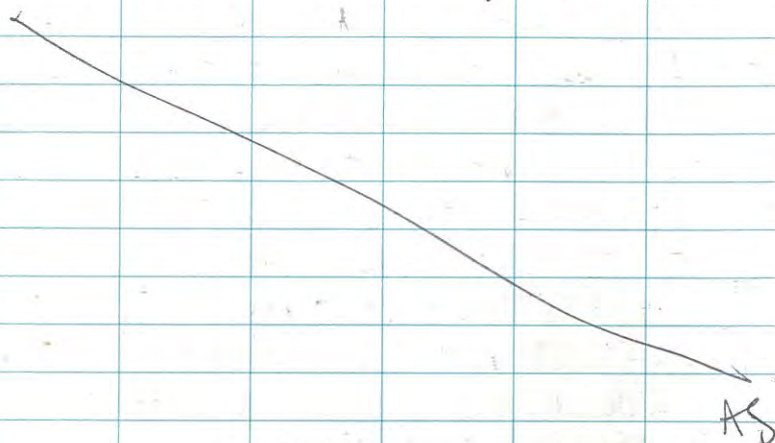
1136 Per EPA, there remains a 40% chance of rain, no monitoring or air sampling will occur today, will resume tomorrow, weather permitting

1520 Pausing work again due to weather conditions

1620 All play structures from large play area at northern edge of property removed

1639 Latitude and longitude points for monitoring wells on site should be collected on 9/21/22, per EPA request

1730 START (Scholl) off-site



AS

Chudnow metals RV

9/21/22

7

0645 START (Scholl) and EPA (Konderick) on site

Weather: 73°, high: 75°, sunny, winds W 9 mph, 73% humidity

0650 START (Houle) on site

0655 EPA (Hendrickson) on site

0718 Setting up Dust traps
Calibrating pumps

pump #	Location	Flow	Start time
027	Upwind	1.977	0742
030	Downwind	2.009	0744
026	Building Entrance	2.008	0740
028	Downwind duplicate	2.003	0744

0830 START (Menor Salazar) on site

0838 First trailer delivered

0843 Geoprobe arrives on site

0855 EPA installing/establishing control points

CP04 installed in NW corner of parking lot

CP05 installed along concrete retaining wall on SE portion of site

CP06 installed along concrete

Rite in the Rain

8 9/21/22

Chudnow metals KV

retaining wall on SE portion of site
CPO7 installed along concrete
wall near center of building
CPO8 installed near central
post

0940 Sample location elevations

SBA2 - 631 ft amsl

SBC2 - 631.5 ft amsl

SBC3 - 633 ft amsl

SBD1 - 632 ft amsl

Note: sample collecting
beginning @ SBA2 @ 9/15

Duplicate sample - Parent ID

RH DUP 01 SBA2 (4-5 ft bags)

DUP 01 SBD1 (1-2 ft bags)

DUP 02 SBC3 (1-2 ft bags)

note:

SBD1 631-630

SBC3 632-631

1000 Refusal encountered at SBC2
at approx. 4 ft bags.

1015 Refusal encountered at SBD1 at
approx. 3 ft bags.

1020 Per EPA, no samples will be
collected or submitted

Chudnow metals KV

9/21/22

9

from below 629 ft amsl

1043 EPA used dedicated sampling
equip at each boring location,
therefore no insitu sample will
be collected.

1110 Sampling complete.

1150 Second and third trailers
arrive

1325 Electrical Contractor Arrives
on site

1420 START Taking GPS locations
of control points

1500 Filter bags placed around
storm sewers

1640 Breaking down air monitoring
and air sampling

1647 End Air Sample Calibrations

Pump#	Location	End flow	Stop Time
027	upwind	2.01	1638
028	Downwind dup.	1.95	1640
030	Downwind	2.00	1640
026	Entrance	2.03	1642

1700 START (Howle, Scholl)
offsite

RH
Rite in the Rain

10 9/22/22 Chudnow metals RV

0655 START, EPA, EPRS onsite.
Weather: 49°, high 62, clear,
winds NNW @ 10-20 mph,
77% humidity.

0700 Morning ops: H&S meeting.
EPRS to continue site prep,
front end loader will be
delivered today

0736 Air Sampling Calibration

Pump #	Location	Flow	Start Time
028	Downwind	1.96	0750
030	upwind	1.99	0749
027	Building Entrance	1.97	0746

- Field Blank Placed upwind 0748.

0802 Building entrance DRX-006
not working, looking into
renting two Dusttraks to
replace two faulting machines

0856 Front-end loader arrives on-site

0901 START (Houle) going to pick up
two DRX units from Raeco Rents

1010 Electrician arrives on-site

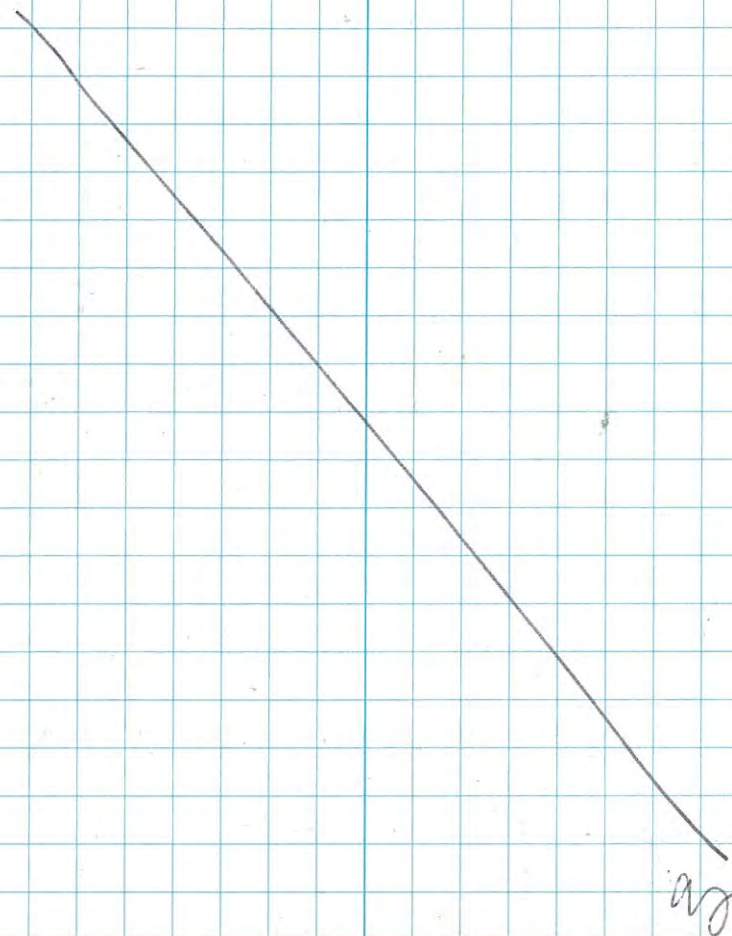
1125 START (Houle) back on-site
w/ 2 DRX units, replacing
05-DRX-006 with Raeco DRX.

Chudnow metals RV

9/22/22

1130 Building entrance DRX deployed.
1550 Building entrance DRX moved,
antennas installed for VIPER
connection

1730 START off-site



12 9/23/22

Chudnow Metals RV

0657 START, EPA, EKRS on-site.

Weather: 48°, high: 64°;
partly cloudy, winds: NW
2 mph, 78% humidity

0700 Morning ops and H&S
meeting. EKRS to continue
site prep and staging;
establish exclusion zones,
clear brush

0710 Deploying DRX units

0730 Morning calibrations

Pump #	Location	Start Flow	Time on
026	Upwind	2.03	0744
029	Downwind	1.99	0742
028	Building Entrance	1.92	0739

0830 Rented DRX-8533 won't
turn on when USB plugged
in, goes to white screen.

Building unit replaced with
rental DRX SN 8533220304.

Note: DRX that isn't working
is SN 8533220306

0905 VIPER Running

1000 Chudnow Progress Teams mtg

1105 Downwind DRX and air
sample moved to allow

Chudnow Metals RV

9/23/22 13

EKRS to begin digging soil;
three drums identified in
tree line on western edge
of property

1222 MW-12 Removed and
filled with Bentonite

1357 EPA (Measure) request S
Air monitoring summary
tables on ~~Thursday~~ Friday
every week with data
from Monday-Thursday,
and include data from
Friday in following weeks table

-Note: This plan is not
finalized, discuss next week

1426 Beginning Air monitoring
and Sampling Break-down

1520 START (Scholl) off-site

14 9/26/22

Chudnow metals RV

0656 START (Scholl) on-site, EKRS on-site
Weather: 52°, High: 63°

wind: WNW 14 mph, 81% humidity

0700 Morning ops & H&S meeting,
EKRS to continue staging to
prepare to start digging.
Water buffalo and excavator
arriving today

0710 Deploying DRX units

0734 Air Sample Calibrations

Pump#	Location	Start Flow	Start Time
030	upwind	2.02	0748
020	downwind	2.00	0746
028	Building Entrance	1.99	0744

0830 START (House) on-site; upwind
DRX deployed, not connected
to VIPER

0903 Excavator delivered

0930 Water tank delivered

1015 Preparing to collect Substrate C
WC sample from Grid B3
near historical sample
location TP-11

Benchmark CP08	4.67	629.2
Sample Pt. TP11	2.80	631.79
pre-ex	3.74	630.1

Chudnow metals RV

9/26/22 15

1033 EKRS excavator bucket having
mechanical issues

Note: START collecting pre-excavation
survey measurements from
grid cells A2-A3

1100 START collecting WC sample,
screening w/ chlor-n-soil kit.

1110 Sample #1 < 50 ppm PCB.

1115 START collecting another
aliquot.

1135 Sample #2 < 50 ppm PCB. collecting
another aliquot ~6" deeper in
~~PH 3.4~~ expanding test pit to
the north.

1155 Sample #3 < 50 ppm PCB

1220 START surveying: marking out
sample location S-6 in grid
G1. Contamination is from 630-628.

CP 07	3.70	631.7
at least S6	3.65	631.75
S.4 →	5.41	

1320 Upwind DRX run stopped,
restarted the run, unsure how
long it was stopped for

16 9/26/22 Chudnow metals RV

1437 Sample #4 in grid G1 > 50ppm,
waste characterization samples
jarred and packed

1454 START surveying elevation
of pit in cell A-3

BM CP08:	5.99	629.2
BL 1st	6.89	628.3

ERRS continuing to excavate
in cells A3 and A4

1507 Upwind DRX run stopped again,
deploying second battery

1549 Upwind DRX moved closer
to shed to allow excavator
to move on Berm

1557 Abandoning MW-13, top
portion of well pipe broke
off, digging out area around
pipe to attempt removal
of remaining pipe

1606 Unable to remove rest of
pipe to abandon M-W 13,
have to wait until dirt in
area excavated to access
more of pipe.

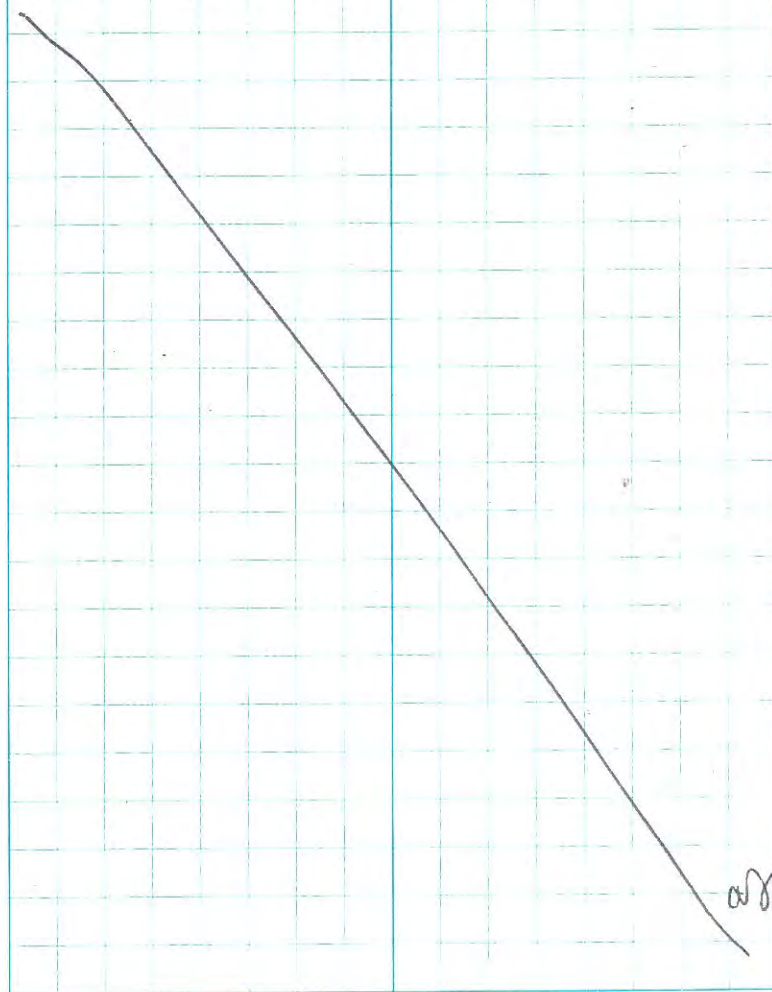
~~1605~~ START collecting elevation

Chudnow metals KV

9/26/22 17

surveys of G4 and F4
1716 Air monitoring and samples
disassembled

1720 START (Schell) off-site



Plot on the Paper

0658 START (Scholt) EPA ERRS on-site
 Weather: 46°, High: 57°, wind:
 WNW 10 mph, 77% Humidity
 0700 Morning ops & H&S meeting,
 ERRS to begin excavating
 Berm starting at G4

0710 3 DRX units deployed

0740 Air Sampling Calibrations

pump#	location	Flow	start Time
028	upwind	1.99	0755
029	Downwind	1.92	0754
027	Building	2.06	0753

0805 START continuing laser level
 surveys of remaining grids

0951 Elevation Surveys complete for
 the following cells: A1, A2, A3,
 A4, B1, B2, B3, B4, C1, C2,
 C4, D4, E4, F4, G4

0957 Building Entrance DRX run
 stopped, second battery deployed

1137 Downwind DRX experienced
 pump voltage error, one of
 the batteries changed
 and run re-started

1200 START continuing elevation
 surveys

1404 Building DRX reading 0
 continuously, zero calibrating
 and re-starting run

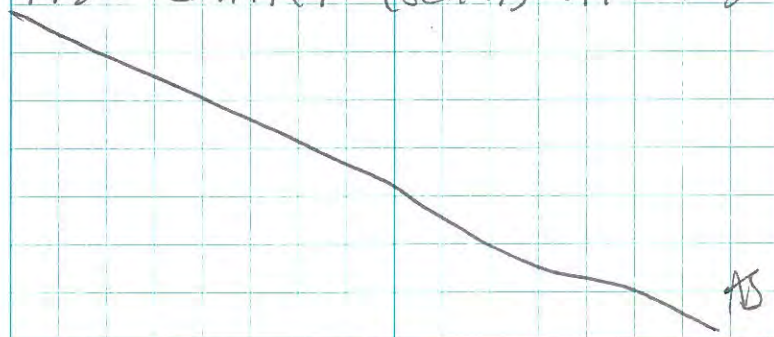
1408 Laser level surveys completed
 for E3, F2, F3, G2, G3.
 Remaining surveys will
 be conducted when
 equipment and shed are
 moved out of cells.

1501 Elevation Surveys completed
 for cells D3, D2, ~~D1~~ D2
 Survey for C3 cannot be
 done until dirt pile
 removed from site

1533 Well NW-13 fully removed

1630 Taking down Air Sampling
 and monitoring

1720 START (Scholt) off-site



9/28/22

Chudnow Metals RV

0656 START (Scholl), EPA (Maguire),
ERRS on-site. Weather: 45°,
High: 55°, wind NNW 10mph,
73% Humidity

0700 Morning opps & H&S meeting,
ERRS to continue digging and
stockpiling dirt

0729 Air Sample Calibrations

pump #	location	Flow	start Time
030	upwind	2.03	0743
026	Downwind	2.05	0742
029	Building Entrance	1.95	0740
028	BE Duplicate	2.00	0740

0819 Downwind inlet tube
popped off DRX, may
show spike in data

0830 Shed moved, START continuing
elevation surveys

- EPA (Nawczak) on-site

0928 Elevation surveys for
D1, E1, F1, and G1
completed. Survey for C3
will be completed once
dirt pile taken off-site.

1146 START (Howe) on site with
XRF and two EPA dusttraks.

chudnow metals RV

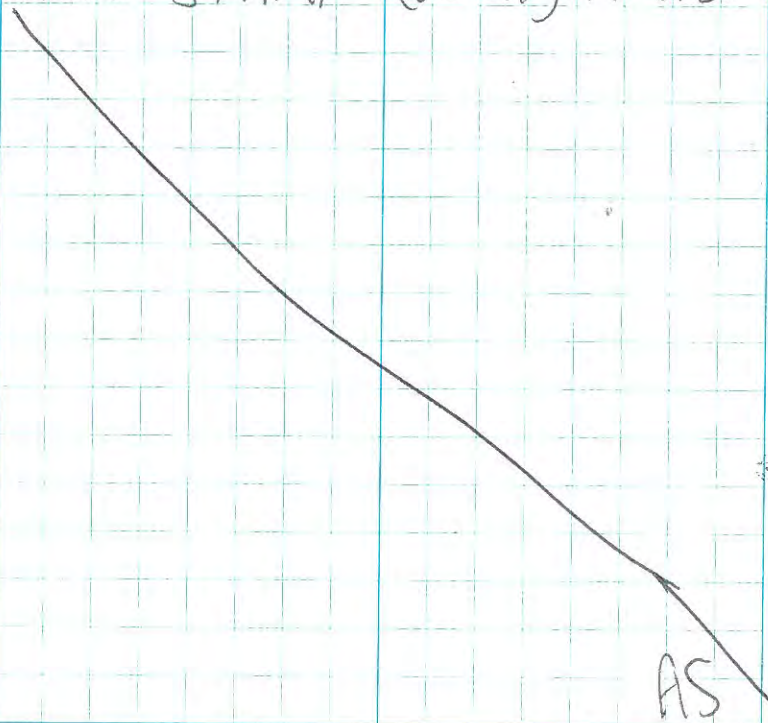
9/28/22²¹

START switching out Raeco
units with EPA units.

1303 One EPA Dusttrak is
not working and is being
returned, one Raeco unit
is being returned. START
(Howe) off-site.

1720 All air sampling and
monitoring taken down

1730 START (Scholl) off-site



22 9/29/22

Chudson Metals RV

0658 START (Schall), ERRS on site.

Weather: 41°, High 61°, Wind
WNW 2mph, 85% Humidity0700 Truck arrives on-site, beginning
to load with dirt. START setting
up air monitoring and sampling.

0726 Air Sample Calibrations

pump#	Location	Flow	Start Time
027	upwind	2.02	0738
029	Downwind	1.96	0740
028	Building int.	1.95	0736

Field Blank placed downwind 0740

0729 First truck-load off-site

0828 Dark material encountered
~3 feet down in cell G2,
START conducted chlor-n-soil
kit test and results were
PCBs < 50 ppm.0924 Senbelt replacing mirror on
front-end loader

0945 Electrician on-site

0952 Collecting samples from drums

1004 Electrician had to cut
power, VIPER momentarily
down for ~20 min

Chudson Metals RV

9/29/22

23

1005 XRF Analysis of drum contents.

Blank: Si: 53.22 % \pm 0.39Standard: Pb- 1427 ppm \pm 27

Drum#	Test #	Pb (ppm)
1	1	1786 \pm 36
1	2	1205 \pm 26
1	3	1568 \pm 32
1	4	1655 \pm 35
1	5	1336 \pm 29
2	1	25 \pm 3
2	2	512 \pm 13
2	3	189 \pm 10
2	4	64 \pm 5
2	5	104 \pm 8
3	1	1485 \pm 29
3	2	302 \pm 11
3	3	275 \pm 10
3	4	324 \pm 11
3	5	340 \pm 11

Drum #1: 1510 \pm 31.6 ppm (Average)Drum #2: 178.8 \pm 7.2 ppm (Average)Drum #3: 545.4 \pm 14.4 ppm (Average)Note: Drum #2 contents was thick
clay material, which may
have impacted results

Rite in the Rain

24 9/29/22 Chudnow metals RV

Median Readings: Drum #1 =
1568 ppm. Drum #2 = 104 ppm,
Drum #3 = 324 ppm

1200 Second truck-load of dirt taken
off-site

1248 Building DRX consistently
reading zero, unit re-zero
calibrated and run re-started

1307 EPA (Maguire) on-site

1331 Third truck-load of dirt
taken off-site.

1335 Chlorin-soil test being conducted
on drum contents, results:
PCBs < 50 ppm

1400 Per EPA, do not need to order
more chlorin-soil kits, not
planning to change plan, but
wants to stick to elevations?
grids for waste profile with the
current data

1508 Fourth truck-load of dirt
taken off-site

1650 Fifth truck-load taken off site
tearing down air sampling/monitoring

1730 START (Scholl) off-site

Chudnow metals RV 9/30/22

0656 START, (Scholl), EPA, ERRS
on-site. Weather: 45°, high
64°, wind: N 1 mph, 89%
humidity

0700 Morning ops & H&S meetings,
ERRS continuing excavating,
truck coming back to
take material off-site

0721 BE DRX placed by fence
next to ERRS trailer
VW DRX placed next to EPA/
START trailer towards north,
DW DRX placed in southwest
corner of property

Air Pump Calibration

pump#	Location	Flow	Start
028	upwind	1.99	0728
026	Downwind	2.06	0731
030	Building	2.03	0730

0743 Note: plume of smoke from
butchers shop to the west
blowing onto site, may be
picked up by air sampling/
monitoring equipment

0810 First truck-load off-site

Rite in the Rain

4/30/22

Chudnow Metals RV

START 0855 START conducting
elevation surveys of
F3 and F4 cells

F4-01: 635.91 amsl

F3-01: 635.01 amsl

1109 Grid cell F3 excavated down
to 634.39 amsl, now considered
PCB depth.

1115 Second truck-load taken
off-site.

1240 Third truck-load taken off-site.

1345 VIPER alert at downwind DRX,
1 min. total TWA 71.5 mg/m³.
ERRS instructed to hose
down the dust more in area.

1353 United Rentals on-site to work
on leaking water buffalo

1407 Fourth truck-load taken off-site

1435 Elevation survey of F4, at
633.3 amsl

1541 Fifth truck-load taken off-site.

1545 START (Scholl) off-site.

AS

Chudnow Metals RV

10/3/22

0656 START (Scholl) on-site, ERRS
on-site. Weather: 43°, High: 64°
Wind: NW 0 mph, 84% humidity

0722 Pump calibrations

pump #	Location	Flow	Start
030	upwind	2.08	0730
028	Downwind	1.98	0732
026	Building Entrance	2.64	0731

0735 First truck of material off-site

0748 Second truck of material off-site

0800 Third truck-load off-site

0812 Fourth truck-load off-site

0902 Fifth truck-load off-site

0909 START conducting elevation
survey of F4 - currently at 633 amsl

0915 Sixth truck-load off-site

0946 Seventh truck-load off-site

1002 Eighth truck-load off-site

1022 Ninth truck-load off-site

1037 Tenth truck-load off-site

1118 Eleventh truck-load off-site

1129 Twelfth truck-load off-site

- Upwind DRX readings negative, unit
re-zeroed and run re-started

1141 Thirteenth truck-load off-site

28 10/3/22

Chudnow Metals RV

- 1158 Fourteenth truck-load off-site
 1200 Downwind DRX moved approx 30 feet east to allow ERKS to continue digging on berm
 1234 Building Entrance DRX reading continuously, unit re-zeroed and run re-started
 1251 Fifteenth truck-load off-site
 1305 Sixteenth truck-load off-site
 1316 Seventeenth truck-load off-site
 1326 Eighteenth truck load off-site
 1414 Nineteenth truck load off-site
 1427 Twentieth truck-load off-site
 1449 21st truck-load off-site
 1531 Building entrance DRX reading pump voltage error, second battery deployed
 1547 22nd truck-load off-site
 1555 23rd truck-load off-site
 1620 24th truck-load off-site
 1635 Metal cover placed over sewer in cell B1
 1640 Breaking down air sampling and monitoring
 1730 START (Scholl) off-site

OX

Chudnow Metals RV 10/4/22 29

- 0658 START (Scholl) on-site, ERKS and EPA on-site. Weather: 46°, High: 72°, sunny, winds: NE 8 mph, 80% Humidity
 0700 HHS and morning opps meeting. Three trucks to be hauling material off-site today.
 0725 First truck-load off-site
 BE DRX by ERKS trailer and dog run behind building, PW DRX placed along western property line
 UW DRX placed by EPA/START trailer towards north of property
 0731 Air sample calibrations
- | pump# | Location | Flow | Start |
|-------|----------|------|-------|
| 028 | upwind | 2.02 | 0739 |
| 026 | Downwind | 2.06 | 0742 |
| 027 | Building | 2.02 | 0741 |
| 029 | BE Dup | 1.98 | 0741 |
- 0815 Second truck-load off-site
 0824 Third truck-load off-site
 0835 Fourth truck-load off-site
 0846 Fifth truck-load off-site

Rite in the Rain

30 10/4/22

Chudnow metals RV

- 0942 Sixth truck-load off-site
- 0952 Seventh truck-load off-site
- 1005 Eighth truck-load off-site
- 1045 United Rentals on-site
to work on leaking water buffalo.
- 1102 Ninth truck-load off-site
- 1135 Tenth truck-load off-site
- 1147 Eleventh truck-load off-site.
Downwind DRX moved approx
25 feet south^{AS} north to allow
ERRS to begin digging in B3
- 1204 Large metal covering delivered
and placed over sewer in B1
- 1242 11th truck-load off-site
- 1253 12th truck-load off-site
- 1304 13th truck-load off-site
- 1355 14th truck-load off-site
- 1414 15th truck-load off-site
- 1437 16th truck-load off-site
- 1503 17th truck-load off-site
Cell G2 checked with
elevation survey, currently
at 629.29 amsl
- 1539 Dark oily material found
in cell B^{AS} G2 at approx.
629 amsl, per EPA will

Chudnow metals RV

10/4/22 31

likely require sampling to
test for TCLP lead & PCB.
Material found in northwest
corner of cell next to borders
of G1 & F2.

- 1603 18th truckload off-site
- 1632 19th truckload off-site
- 1635 Breaking down air monitoring
and sampling.
- 1638 EPA requests ordering more
Clor-n-soil kits
- 1730 START (Schol) off-site

32 10/5/22 Chudnow metals RV

0658 START (Scholl), EPA, ERKS on-site.
Weather: 48°, High: 73°, Sunny,
wind: E 2 mph, 74% humidity

0700 Morning ops & H&S meeting.
Continuing excavation on east
end of property.

0720 First truckload off-site
Air sample calibrations:

pump#	Location	Flow	Start
030	Upwind	2.04	0727
029	Downwind	2.05	0728
028	Building	2.00	0726

Field Blank placed upwind 0728

0748 ^{Down} ~~As~~ wind DRX placed in cell
E1 by gate next to building.

Upwind DRX placed in A2 by
west property line.

BE DRX placed next to ERKS
trailer near corner of dog run

0813 Second truckload off-site

0821 Third truck-load off-site

0830 START conducting elevation
survey of cell G3. Currently
at 629.5 ft amsl

0841 Fourth truck-load off site

0905 START conducting elevation

Chudnow metals RV 10/5/22 33

survey of G4, currently at
629.2 feet amsl

0927 Fifth truckload off-site

0941 Sixth truckload off-site

0958 Seventh truckload off-site

1043 Eighth truck-load off-site.

PCB Stockpile Started on
east end of property on top
of poly-cover in G3 and G4

1055 Ninth truck off-site

1119 Tenth truckload off-site

1130 Downwind DRX inlet tube
not attached, unit reading
high. Tube re-attached.

1152 Building DRX frequently
connecting and disconnecting
from VPER, antenna tightened
and second battery deployed

1238 Eleventh truck-load off-site

1249 Twelfth truck-load off site

1347 START conducting elevation
survey of F4, currently at
630.5 ft amsl.

- 13th truckload off-site

1402 14th truckload off-site

Rite in the Rain

34 10/5/22 Chudnow metals RV

1413 15th truckload off-site
- Downwind DRX moved approx
20 feet west to allow
ERRS to begin digging
in cell E1

1428 Downwind DRX re-zeroed
and run re-started

1506 16th truckload off-site

1517 17th truckload off-site

1529 PCB stockpile in cells G2-G4
covered with tarp

1637 Tearing down air sampling
and monitoring

1642 18th truckload off site

1651 19th truckload off site

- Air Sample End Flows Calibration:

UW: 2.06

DW: 2.02

BE: 1.98

1730 START (Scholl) off-site

10/6/22

Chudnow metals AV 35

0650 START J. Jageman on site.

Weather: 42°/57°, sunny, Rain projected
@ 1 PM, wind 7 MPH E, 58% hum.

0700 Morning ops / Hrs meeting. Excavation
to continue on east end of the prop.
in E grids.

0710 First truck on site.

0720 START deploys air monitors.

First truck off site.

0740 START calibrates air sample pumps

Pump#	Location	Flow	START
030	Building	2.0229	0755/1755
	upwind	2.0162	0758/1800
	Downwind	1.9907	0800/1810

Field Blank Placed at building 0755

DRX locations same as 10/5/22

0830 START conducts elevation survey of
cell E1 and E2. ~~632.82~~ FF Air: 632.82

0850 orc maguire, ERRS, and START
discuss grid depth and
discrepancies. START troubleshoots
elevations.

E2 → 633.68

0900 ERRS cutting back grids E
and D. Adding to backfill pile.

Rate in air rain

36 10/6/22

Chadnow metals AV

- 0915 Water truck onsite to replenish supply.
- 0925 Water truck offsite.
- 1000 START check elevation above sea level for grids E1, E2, F4, F3, F2.

E1 = 632.82

E2 = 633.68

F4 = 630.45

F3 = 631.79

F2 = 631.59

- 1100 ERRS continue to cut back grids E and ~~D~~^F. Trucks continue to offload soil.

- 1130 All air monitoring stations checked. Functioning nominally.

- 1230 Light rain starts. Bags placed over DRX units. Units left running. Note: ONLY small edge of grid D being excavated. Predominantly grid E.

- 1330 START offsite.

- 1350 START back onsite.

- 1700 Last truck being loaded. Truck log included on next page.

- 1710 crew wraps up site work. All equipment taken down.

10/6/22

Chadnow metals RV 37

- 1730 crew offsite.

TRUCK	log (time offsite)
#1	0728
#2	0815
#3	0824
#4	0842
#5	0942
#6	0950
#7	1011
#8	1057
#9	1104
#10	1123
#11	1213
#12	1222
#13	1248
#14	1341
#15	1348
#16	1410
#17	1515
#18	1523

Two trucks preloaded at the end of the job (1700)

- 1745 START offsite

IS

38 10/07/22

Chudnow Metals RV

0700 START I. Sageman on site.
Weather: 35°/52°, Cloudy, Wind 7 MPH
SE, hum 88%.

Morning ops/H+S meeting w/ EPA,
ERRS, and START. ERRS crew will
finish cutting back grid E and
begin w/ grid D. Aiming for
632 ft above sea level.

0715 START Calibrates sample pumps

PUMP#	Location	Flow	START
026	Bldg	2.0298	0742
028	DW	2.0235	0752
029	UW	2.0387	0746
030	DUP	2.0344	0740

0730 First truck offsite

0740 Air monitors and sample pumps
being deployed.

0755 All equipment deployed. ERRS excavating
grid E.

0810 second truck offsite.

0818 Third truck offsite.

0835 Fourth truck offsite.

0840 START takes depth measurements
in grids E4 and D4.

E4 = 631.99 D4 = 632.3

0855 ERRS move excavator bucket to West Pit.

Chudnow Metals KV

10/7/22³⁹

0905 START (Scholl) on-site. Sageman
informing Scholl on site ops-
and progress from 10/6 and
morning of 10/7.

Fifth and sixth trucks off-site.

0945 START (Sageman) off-site.

1000 Seventh truckload offsite

Bi-weekly update meeting
with stakeholders.

1036 Eighth truckload off-site

1045 Ninth truckload off-site

Upwind DRX reading
negative, unit re-zeroed and
run re-started

1121 Upwind DRX readings not
consistent with VIPER readings,
longer antenna and second
battery deployed.

1133 Tenth truckload off-site

1211 Eleventh truckload off-site

1225 3rd truckload off-site

1253 4th truckload off-site

1324 Elevation Survey of B3.

Reading #1 = 631.76 ft AMSL

Reading #2 = 632.01 ft AMSL

Rite in the Rain

40 10/7/22 Chudnow Metals RV

- 1325 15th truck off-site.
1340 16th truck off-site.
1412 17th truck off-site
1422 Upwind DRX moved approx.
60 feet south to southwest
corner of property to allow
ERRS to begin work in A2.
Continuing to dig in D cells.
1445 START taking elevations:
D1 (north border): 630.0 ft amsl
D1 (middle): 630.3 ft amsl
D2: 630.09 ft amsl
1507 START taking elevation
Survey of E2: 630.4 ft amsl
1518 18th truck off-site
1526 19th truck off-site
1545 ERRS finished digging for
day. START tearing down air
monitoring/sampling
1625 START (Scholl) off-site

ND

Chudnow Metals RV

10/11/22 41

- 0656 START (Scholl), ERRS on-site.
Weather: 46°, High: 73°,
Foggy, Wind NNW 1 mph,
86% Humidity, chance of
rain @ 3 pm
0700 Morning ops & H&S meeting.
ERRS continuing digging in
D cells.
0730 Truck-load #1 off-site
Air Sample Calibrations
pump# Location Flow Start
026 Upwind 2.00 0734
029 Downwind 2.00 0737
030 Building 2.07 0735
0740 Building DRX in same location
as 10/7/22, Upwind DRX by
START/EPA trailer, Downwind
DRX in southwest corner
of property.
0745 Second truck-load off-site
0809 Third truck-load off-site
0850 Fourth truck off-site
START taking elevation of
cell F3 currently at 631.9
ft amsl. ERRS to dig to

Rite in the Rain

42 10/11/22 Chudnow Metals RV

PCB depth @ 630 ft amsl

0905 Fifth truck off-site

0916 Sixth truck off-site

1000 START conducting elevation survey of F3; currently at 630.5 ft amsl, considered PCB depth.

1010 Seventh truck off-site.
-EPA (Konderick) on-site.

1018 Eighth truck off-site

1022 CSC (Konderick) requests START look into overnight shipping clor n-soil kits from a nearby office and find out where CI labs ship samples they can't analyze.

1025 VIPER management calling START, no data is transmitting to management. START troubleshooting.

No compiled rns transmitting for 10/7 or 10/11

1030 Ninth truck off-site.

1046 VIPER issue might be due to backed up data transmission due to slow wifi. START

Chudnow Metals RV 10/11/22

to bring laptop to hotel and connect to hotel wifi overnight to see if data transmission catches up.

1106 EPA (Konderick) tells START that PCB stockpile will require a new W.C. sample to test TCLP lead again.

1126 Tenth truck off-site
START taking elevation survey of E2, currently at 630.6 ft amsl

1156 Eleventh truck-load off-site

1206 Twelfth truck-load off-site

1246 13th truck-load off-site

1250 START checking air monitoring and sampling equipment, all functioning normally.
Orange fencing placed around PCB grid F3.

1311 14th truck-load off-site

1325 15th truck-load off-site
START conducting elevation of E3, currently @ 630.5 ft amsl

44 10/11/22

Chudnow Metals RV

- 1403 16th truck-load off-site
 1423 17th truck-load off-site
 START takes elevation of
 E4, currently @ 630.6 ft amsl
 1433 18th truck-load off-site
 1446 Building DRX reading zero on
 VIPER, second battery deployed.
 1530 Due to predicted rain, air sampling
 & monitoring pulled down.
 1653 EKRS crew wrapping up,
 covering stockpile
 1723 EPA (Konderick) requests
 seven more orders of
 6-pack clornsoil kits. EPA
 and START will work up
 new sampling plan for
 subtitle C/ TCLP waste
 on 10/12/22.
 1730 START (Scholl) off-site.

Chudnow Metals RV

10/12/22

45

- 0658 START (Scholl) on-site. EKRS,
 EPA on-site. Weather: 61°
 High: 64°, Rain, Wind: SSW
 14 mph, 81% Humidity.
 0700 Morning ops & H&S meeting.
 Lightning strike seen at 0653,
 no work starting until 0723.
 No air monitoring or sampling
 set out due to weather.
 0747 First truck-load off-site
 0753 Second truck-load off-site
 0806 Third truck-load off-site
 0903 Fourth truck-load off-site
 0913 Fifth truck-load off-site
 0933 Sixth truck-load off-site.
 0949 EPA (Konderick) proposes new plan
 for analyzing ~~field~~^{AS} confirmation
 samples with field data unless
 suspected subtitle C, at which
 point samples sent to lab.
 START (R. Houe) updating SAP.
 1010 Seventh truck-load off-site
 1025 Eighth truck-load off-site
 1035 Ninth truck-load off-site
 1040 START collecting WC samples

Rite in the Rain.

46 10/12/22 Chudnow Metals RV
 from stockpile & cell F3.
 Conducting Clorn-soil & XRF survey.

1147 Tenth truck off site.
 Results of clorn-soil test:

Stockpile = >50 ppm

cell F3 = >50 ppm

1210 Tornado warning issued for
 Milwaukee area until 1245

1240 11th truckload off site

1318 12th truckload off site

1336 Note: WC samples taken from PCB
 stockpile were composite of five
 sample locations spaced along the
 west side of stockpile. Stockpile
 is comprised of PCB waste from
 E3, F3, and F4.

1405 13th truckload off site

1615 START (Scholl) off-site to
 mail samples.

1655 START back on-site
 ERRS wrapping up work

1713 Results of XRF screening:

Stockpile(ST) #1: Pb AS

sample# Pb AS

1 4,179 166

2 AS 23,212 164

Chudnow Metals RV 10/12/22 47

3 5,201 65

4 3,645 132

5 3,369 190

Cell F3:

Sample# Pb AS
 1 3,191 246

2 2,485 182

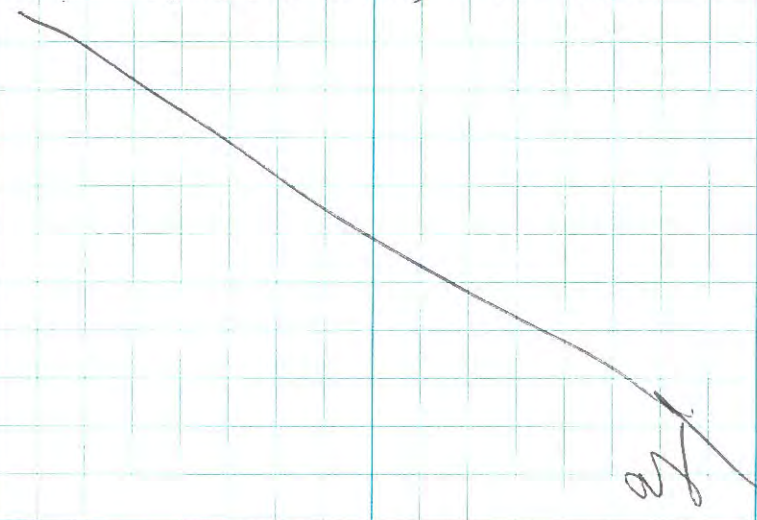
3 2,613 166

4 3,186 96

5 3,392 256

1725 NOTE: 18 truckloads of material
 and two pre-loads off site
 in total.

1730 START (Scholl) off-site.



Rite in the Rain

EXAMPLE SURVEY

BM: Fencepost 1 5.61 ft | 629.5
 SL: Well 2.86 ft | 632.25
 Fencepost 2 3.44 ft

BM = Benchmark

SL = Survey Location

$$\text{BM elevation} + (\text{BM rel.} - \text{SL rel.}) = \text{SL elevation}$$

Control point 08: 629.201356

BM: ~~Control~~ Location

BM rel.: @ C.P.

BM rel.: ~~CP~~ 4.19 ft | 629.201356

SL rel.: = 4.69 ft | 629.7

SL rel.: = 4.21 | 629.18

SL rel.: = 5.13 | 628.3

TACOMA, WA, USA

EST. 1916

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 — DEFYING MOTHER NATURE —



USE WET OR DRY
 most pens stop writing when wet

- ALL PENCILS
- RITE IN THE RAIN PENS
- WAX MARKERS
- CRAYONS
- OIL PASTELS / PAINT

WHEN DRY ONLY
 what you write won't wash off

- PERMANENT MARKERS
- STANDARD BALLPOINTS

WON'T WORK
 water-based inks bead off sheet

- GEL PENS
- MOST HIGHLIGHTERS
- FOUNTAIN PENS
- WATER COLORS
- ACRYLIC PAINT



ALL-WEATHER TOUGH!



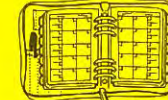
The Rite in the Rain story began a century ago in the forests of the Great Pacific Northwest. Entrepreneur Jerry Darling recognized the logging industry's need for a durable material that could be written on and survive in poor weather conditions. Jerry developed a special coating that created a unique moisture shield on the hand-dipped sheets of paper that he and his wife, Mary, processed at their home. From these humble beginnings our first all-weather paper was born. Over the many years we've perfected and patented our environmentally responsible coating process. Still located in Tacoma, our continued mission is to provide innovative products for professionals and enthusiasts who brave the outdoors.

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Item No. 351FX

ISBN: 978-1-60134-186-6

Made in the USA
US Pat No. 6,863,940



Chudnow RV
Logbook 2



Rite in the Rain®

ALL-WEATHER

FIELD

Nº 351FX

2 10/13/22

chudnow Metals RV

0658 START (Scholl), EPA, ERRS on-site.
 Weather: 41°, High: 50°, mostly
 sunny. Wind: WSW 8 mph, 81%
 Humidity.

0700 Morning ops & H&S meeting. Ground
 still wet from yesterday. won't
 set up air monitoring unless it
 dries. START to check elevations
 of cells to ensure accuracy
 of excavator.

0710 Elevation Survey Results (ft amsl):
 F3 = 630.2
 E4 = 630.8
 D4 = 630.4
 C4 = 629.8
 F4 = 630.6
 E3 = 630.4
 F2 = 631.2
 F1 = 630.6

0720 First truck-load off-site

0757 Second truck-load off-site

0812 Third truck-load off-site
 START conducting elevation
 survey where ERRS is working
 in C4's, currently = 630.4 ft amsl

0845 Fourth truckload off-site

chudnow Metals RV

10/13/22

3

0900 START conducting elevation
 surveys of B4 and A4. Both
 grid cells = 631.1 ft amsl

0912 Fifth truckload off-site

0923 Sixth truckload off-site

0925 NOTE: Jim Smith, agent for
 State St LLC on site around
 0900, off-site around 0920.
 Spoke with EPA (Konderick).

0950 START checking elevation of
 B4 = 630.4 ft amsl

0957 Seventh truckload off-site.

1019 Eighth truckload off-site

1031 Ninth truckload off-site

1045 Tenth truckload off-site

1049 START checking elevation
 of A4, currently = 630.9 ft
 amsl in southern portion

1108 Eleventh truckload off-site

1110 EPA (Konderick) off-site

1125 START checking progress of
 elevation in A4, northern
 portion = 630.8

1135 Twelfth truckload off-site

1143 Thirteenth truckload off-site

Rite in the Rain

4 10/13/22

Chudnow Metals RV

- 1155 Signage posted at site entrance to prevent customers from continuing to enter site.
- 1224 Fourteenth truckload off-site.
- 1236 START taking elevation of A3 = 630.7 ft amsl
- 1308 Fifteenth truckload off-site
- Beginning to rain, no air monitoring will be set up for remainder of day.
- 1318 Sixteenth truckload off-site
- Plastic bag placed over laser level
- 1341 Seventeenth truckload off-site
- 1347 START taking elevation of D3 = 630.2 ft amsl
Note: Rain stopped when taking elevation survey
- 1420 Eighteenth truckload off-site.
Elevation survey of C3 = 630.3 ft amsl
- 1429 Nineteenth truckload off-site
- 1608 Twentieth truckload off-site
- 1617 21st truckload off-site
- 1725 START (Scholl) off-site

Chudnow Metals RV

10/14/22

5

- 0658 START (Scholl) on-site, EKRIS on-site. Weather: 37° High: 52° cloudy, Wind: SSW 7mph, 70% Humidity.
- 0700 Morning ops & H&S meeting. Slight chance of rain in afternoon
- 0728 START checking elevation of grid cell ~~F4~~^{A4} = 629.04 ft amsl.
- Ground still wet from rain past two days, not setting out air monitoring unless it dries.
- EPA (Konderick) on-site
- 0735 First truckload off-site
- 0800 Second truckload off-site ^{AS}
- XRF screening of ~~G4:AS~~^{F4}:
Multiple readings around 300 ppm lead along east property line between G2 and G4
- 0815 Third truckload off-site
- 0850 START conducting elevation survey of E4 = 629.3 ft amsl
- 0900 Fourth truckload off-site

Rite in the Rain

6 10/14/22 Chudnow Metals RV

- 1015 START and EPA collecting confirmation samples from E4, F4, and along east property line (Denoted H)
- 1030 START deploying air monitors and samples
- 1047 Pump Calibration
- | pump# | location | Flow | Start |
|-------|----------|------|-------|
| 020 | Upwind | 1.96 | 1054 |
| 029 | Downwind | 2.12 | 1055 |
| 030 | Building | 2.06 | 1054 |
- 1100 START checking elevation of D4 & C4
- D4 = 629.2 ft AMSL
- C4 = 629.1 ft AMSL
- 1113 Building DRX by corner of dog run and EKR's trailer, Upwind DRX by south property line in F3
- Downwind by orange fencing in A2
- NOTE: Field blank placed upwind at 1056
- 1127 NOTE: Total of nine trucks off-site at this point
- 1134 Tenth truck-load off-site

Chudnow Metals RV 10/14/22 7

- 1142 START checking elevation of strip H along building on east property line = 629.82 ft AMSL
- 1235 Building DRX reading pump voltage error, second battery deployed
- 1245 Eleventh truckload off-site
- 1256 START taking elevation survey of E3 = 629.04 ft AMSL
- 1259 Twelfth truckload off-site
- 1308 Thirteenth truckload off-site
- 1340 Elevation survey of D3 = 629.03 ft AMSL
- 1401 Fourteenth truckload off-site
- 1431 Fifteenth truckload off-site
- Elevation survey of C3 = 628.8 ft AMSL
- 1446 Clomsoil test for confirmation samples:
- F4-628-627: ~45 ppm
↳ Take PCB sample w/lab
 - F4-629-628: 50 ppm
- 1530 EPA (Kondrick) off-site

Rite in the Rain

8 10/14/22 Chudnow Metals RV

1623 ERKS covering manhole
with felt (storm drain
in B1) and recovering
with metal cover

1630 Tearing down air monitoring

1700 START (Schon) off-site

AS

Chudnow Metals RV 10/17/22 9

0655 START (Schon), ERKS on-site.
Weather: 36°, High: 43°.
Snow flurries, Wind: WNW
17 mph, 69% Humidity.

0700 morning ops & H&S meeting
Chance of rain at 1100 ~~hrs~~
Not setting out air monitors
yet due to snow and chance
of rain.

0730 First truckload off-site

0738 Second truckload off-site

0839 PCB waste from B4 & B3 being
~~stockpiled~~ piled on poly cover
in cell F3

0845 Third truckload off-site

START taking elevation surveys

B4 = 629.3 ft amsl

A4 = 629.1 ft amsl

C3 = 628.8 ft amsl

0900 Fourth truckload off-site.

START marks corners of
cells at 629 ft amsl for
ERKS to dig test pits for
confirmation sampling.

0925 START conducting elevation

Rite in the Rain

10/17/22

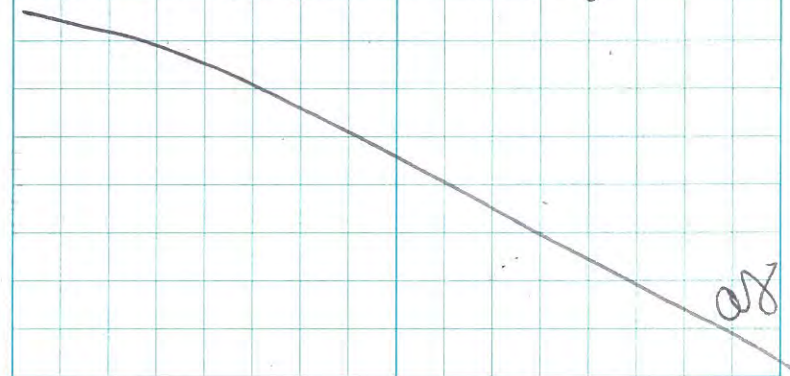
Chudnow metals RV

- Survey of progress in B3 = 628.8 ft amsl.
- 0950 START checking progress of B3 = 628.8 ft amsl
- 1000 Fifth truckload off-site
- 1011 Sixth truckload off-site
- 1143 START and EPA collecting confirmation soil samples from E3, D4, D3, C4, C3, B4
- Seventh & eighth truckloads off-site
- 1229 START checking elevation of E2 = 628.7 ft amsl
- 1235 Ninth truckload off-site
- 1315 Tenth truckload off-site
- START deploying air monitors
 - No air samples deployed, as they wouldn't be running for six or more hours
- 1355 Herc Rentals on-site to pick up excavator bucket
- 1405 Herc Rentals off-site
- NOTE: Confirmation samples for B4, C3, C4, D3, D4, E3, E4, & F4 sent as 629-628 and 628-627 sent today.

Chudnow metals RV

10/17/22

- 1425 START checking elevation of south portion of B2, = 629.2 ft amsl
- 1440 Eleventh truckload off-site
- 1445 START off-site
- 1524 START back on-site
- 1532 Elevation check of B3 = 629.2 ft amsl
- 1559 Twelfth truckload off-site
- 1559^{AS} NOTE: Sample H1 did not get sent with today's samples. Will be sent with next batch.
- 1622 Elevation survey of north portion of B3 = 628.8 ft amsl
- 1655 START tearing down air monitoring equipment
- 1730 START (Scholl off-site)



Rite in the Rain

12 10/18/22

Chudnow metals RV

0658 START (Scholl), EPA, EKRS on-site.
 Weather: 34°, High: 45°, cloudy,
 Wind: NW 18 mph, 65% humidity

0700 Morning ops & H&S meeting.
 EKRS to clear B3 then dig
 test pits for soil confirmation
 sampling

0708 START deploying air monitors/
 samples

0722 Pump Calibration

pump #	Location	Flow	Start
036	upwind	2.10	0729
029	Downwind	2.03	0731
026	Building	2.02	0730
028	DW Duplicate	2.04	0732

0727 First truckload off-site

0744 Confirmation sampling in
 B3, A4, A3, A2, B2

0758 Second truckload off-site

0835 Finished sampling

0840 Third truckload off-site

0817 NOTE: Grid A4 too small to
 dig multiple test pits, all 5
 points taken from one pit.

0957 Fourth truckload off-site
 - START taking elevation survey

Chudnow metals RV

10/18/22

13

of progress of digging in F2,
 results = 629.3 ft amsl

1026 Fifth truckload off-site

1032 START checking elevation in
 F2 = 628.92 ft amsl

1110 Sixth truckload off-site

1126 START checking elevation
 in E2 = 628.98 ft amsl

1140 Seventh truckload off-site

1220 Eighth truckload off-site

1254 Ninth truckload off-site

1301 START check elevation
 in E2 = 628.87 ft amsl

1350 START off-site to ship samples

1445 START back on-site

1505 START checking elevation
 in D2 and C2
 D2 = 628.90 ft amsl
 C2 = 628.8 ft amsl

1515 START and EPA taking
 confirmation samples
 from A1 and B1

1530 Finished sampling

1645 Tearing down monitors/samples

1730 START (Scholl) off-site

Rite in the Rain

10/19/22

Chudnow Metals RV

0658 START (Scholl), ERRS on-site.
 Weather: 32°, High: 45°,
 Sunny, Wind: W 9 mph, 74%
 Humidity

0700 Morning ops & H&S meeting.
 ERRS will dig test pits for
 confirmation sampling.

0707 START deploying air monitors

0724 Air pump calibrations

pump#	location	Flow	start
027	Upwind	2.12	0735
028	Downwind	2.07	0736
029	Building	2.05	0733

0732 first truckload off-site

0742 second truckload off-site

0800 START taking confirmation
 samples from C2, D2, & E2

0835 3rd ~~second~~ truckload off-site

0855 4th ~~third~~ truckload off-site

0905 finished sampling

0935 START checking elevation
 in F1:

North side = 628.78 ft amsl

South side = 629.06 ft amsl

1001 fifth truckload off-site

1016 Sixth truckload off-site

Chudnow Metals RV

10/19/22 15

1108 EPA (Wawczak) on-site to
 deliver equipment for EPA
 (Hendrickson)

1110 EPA (Wawczak) off-site

1115 Seventh truckload off-site

1132 Eighth truckload off-site

1231 Ninth truckload off-site

1305 Tenth truckload off-site

1324 START checking elevations
 in D1 and C1

D1 = 628.88 ft amsl

C1 = 628.86 ft amsl

1421 ERRS opening test pits
 in C1, D1, E1, F1 for confirmation
 sampling

1620 Tearing down air samples/
 monitors

1652 START (Scholl) off-site

OK

06700 START (Scholl), ERRS, EPA
 (Kondreck, Hendrickson)
 on-site. Weather: 36°;
 High: 55°, cloudy, wind:
 WSW 8 mph, 53% Humidity.
 morning ops & H&S meeting.
 No trucks today.

0712 START deploying air
 monitors

0731 Air Pump Calibration

pump #	Location	Flow	Start
029	upwind	1.92	0749
027	Downwind	2.09	0746
028	Building	2.08	0739

0901 ERRS beginning to move
 PCB material from G1 onto
 poly-cover

0943 Elevation survey in G1 =
 629.26 ft amsl

1030 START and EPA (Hendrickson)
 off-site to collect backfill
 samples

1203 START and EPA back on-site

1434 START checking elevation
 in F3, = 629.14 ft amsl

- Backfill samples bottled

for shipment to 101b

1440 START ERRS opening test
 pits for confirmation sampling

1530 Finished collecting
 confirmation samples
 - ERRS mixing free flow
 with stockpile

1033 START tearing down air
 samples, EPA will tear
 down monitoring

1040 START off-site to
 mail samples

18 10/24/22

Chudnow Metals RV

0658 START (Scholl) on-site, ERKS
EPA (Kondreck) on-site. Weather:
43°, High: 72°, sunny, Wind:
SW 7mph, 45% Humidity

0700 Morning ops & H&S meeting.
Full delivery of free flow
expected to arrive today.
ERKS will begin treating
soil. START will collect TCLP
sample.

0712 START deploying air monitors

0735 Air pump calibration

pump#	Location	Flow	Start
028	upwind	1.96	0745
029	Downwind	1.87	0746
027	Building	2.05	0743

Field Blank placed at BE 0744

0824 START collecting sample
from treated F3 soil

0830 Finished sampling

0838 VIPER alert for downwind
station for an exceedance
of 1 min TWA = $8.44/233 \text{ mg/m}^3$
ERKS crew alerted and
directed to spray down
area more

Chudnow Metals RV

10/21/22

19

0923 START taking confirmation
samples from F2

1043 Free-flow delivery arrives
on-site

1101 NOTE: ERKS was mixing
free flow approx. 30 ft
away from downwind
DRX when VIPER alert
occurred

1116 Free-flow delivery truck
off-site.

START checking elevation
in GAS F4 = 627.15 ft
ams

1155 START collecting TCLP
sample from treated G1

1404 ERKS moving PCB stockpile
from G cells to treat
it with free-flow

1600 START tearing down air
monitors and samples

1638 START (Scholl) off-site

AS

Rite in the Rain

0658 START (Scholl) on-site,
ERRS on-site, Weather:
63°, High: 72°, light rain,
wind: S 11 mph, 72% humidity.

0700 Morning ops & H&S meeting.
Two trucks taking material
off-site today. Light rain
~~at AS~~ in morning. START will
deploy air monitors and
samples when it clears.

0730 First truckload off-site.

0738 Second truckload off-site.

0740 START collecting sample from
F4 627 ft AMSL

0746 Finished sampling. Weather
cleared up, START deploying
air monitors and samples.

0804 Air Pump Calibrations

pump#	Location	Flow	Start
029	Upwind	2.06	0814
028	Downwind	2.06	0816
027	Building	2.09	0813

0838 START checks elevation in
E4 = 627.19 ft AMSL

0846 Third truckload off-site

0900 Fourth truckload off-site

0908 Clorn-soil test for F3-627
= ~40 ppm PCB

0925 START checking elevation
in E4 = 627.15 ft AMSL.
START collecting confirmation
sample from E4 627.

0942 Finished sampling.
Clorn-soil Kit analysis for
E4 627 = 40 ppm

1004 Fifth truckload off-site

1015 Sixth truckload off-site.

1052 START checking elevation
in D4 = 627.14 ft AMSL

1123 Seventh truckload off-site

1134 Eighth truckload off-site

1136 START collecting sample
from D4 627 ft AMSL

1145 Finished sampling

1150 Clorn-soil test for D4
627 = 30 ppm

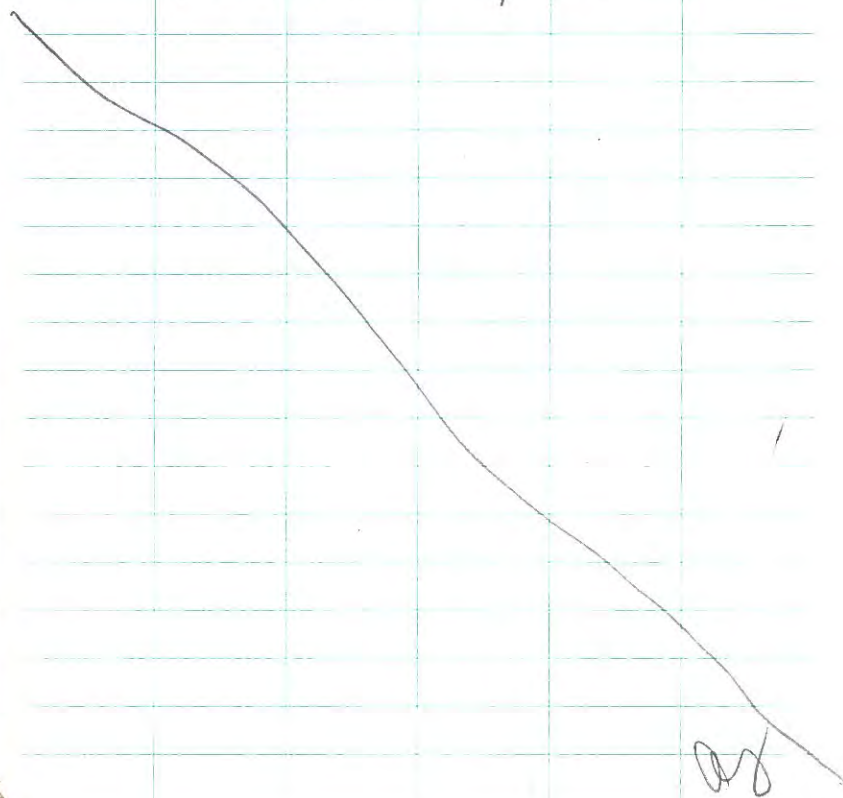
1243 Ninth truckload off-site

1256 Tenth truckload off-site

1316 START taking confirmation
samples in G2, G3, G4

1354 Sampling complete

- EPA (Turner) on-site
 1406 Eleventh truckload off-site
 1417 Twelfth truckload off-site
 1557 START tearing down
 air samples/monitors
 1610 START checking elevation
 of G4 = 629.32 ft amsl
 1635 START (Scholl) off-site
 to mail samples



AS

- 0656 START (Scholl), EPA (Turner),
 EKRS on-site. Weather:
 61°, High: 72°, Scattered
 showers, Wind: SSW
 8 mph, 85% Humidity
 0700 morning ops & H&S meeting.
 Air monitors/samples will
 not be set out due
 to rain.
 0733 First truckload off-site
 0742 Second truckload off-site
 0753 START checking elevation
 of A4 = 626.98 ft amsl
 0834 START taking elevation
 survey in A4: 627.33
 ft amsl.
 START collecting surface
 confirmation sample from
 A4 627
 0843 finished sampling
 0844 START (Higley) on-site
 0855 Third truckload off-site
 0930 START sampling B4 627
 0945 START taking elevation
 survey of F1 = 627.0 ft amsl

Rite in the Rain

24 10/25/22 Chudnow Metals RV

1000 Chlor-n-Soil screening.

A4 = 30 ppm

B4 = 35 ppm

1010 Fourth truckload off-site

1018 Fifth truckload off-site

1128 START checking elevation
in F1 = 626.66

1131 Sixth truckload off-site

1320 EPA (magure) on-site

START taking elevation
survey of E3 = 627.1 ft amsl

1401 Seventh truckload offsite

1505 Operations ending at 1530
due to issues with excavator
bucket and inability to
move PCB waste until a
new bucket is delivered.

1534 START off-site.

AS

Chudnow Metals RV

10/26/22 25

0700 START (Schall, Higley) on-site
EPA (Turner), ERRS on-site
Weather: 43°. High: 54°,
cloudy, wind: NW 11 mph,
77% humidity.

Morning ops & H&S meeting.

0735 First truckload off-site
START setting out DRX

0759 Air pump calibration

pump#	location	Flow Start
-------	----------	------------

028	Downwind	1.97084
-----	----------	---------

027	Building	2.07
-----	----------	------

029	Upwind	2.05
-----	--------	------

0902 Second and third truck-
loads off-site

Elevation check in C4 = 628.57
ft amsl

1008 Fourth truckload offsite

1018 Fifth truckload offsite

1034 ERRS moving PCB
stockpile to access grids
beneath it.

1125 Sixth truckload offsite

1136 Seventh truckload off-site

1239 Elevation in D1 = 626.7

EI

Rite in the Rain

- 1258 Eighth Truckload Off-site
 1323 Elevation in E2 = 627.02
 1400 Ninth Truckload Off-site
 1432 Tenth Truckload Off-site
 1430 Elevation in E1 = 627.11
 1452 Tetra Tech collected confirmation
 Surface Sample from E1 @ 627.
 1612 Elevation in E2 = 627.15
 1620 Gilairs were pulled and calibrated
- | Pump # | Location | Flow End |
|--------|----------|----------|
| 027 | Upwind | 2.09 |
| 02a | Building | 2.15 |
| 028 | Downwind | 2.03 |
- 1645 Tetra Tech collected confirmation
 Surface Sample from E2 @ 627
 1655 Tetra Tech collected confirmation
 Surface Sample from E3 @ 627
 1700 START began pulling in DRX's
 1730 End of operations onsite, START
 to process and ship samples
 from E1, E2 and E3 for PCB's
 and ACRH Metals.

D.H.

- 0700 START (D. Higley) and EPA
 (Turner) and ERRJ onsite
 Weather: 35°F, 54° High 1 mph wind
 NW, Sunny, 80% Humidity
 0730 First Truckload offsite, START
 setting up DRX's
 0750 Air Pump calibration
- | Pump # | Location | Flow Start |
|--------|----------|------------|
| 027 | Upwind | 2.08 |
| 028 | Building | 1.97 |
| 02a | Downwind | 1.99 |
- 0757 Second Truckload offsite
 0800 All Gilairs deployed for sample collection
 0834 Elevation of G1 at 627.07
 0845 START collected confirmation
 Surface Soil sample for G1 @ 627
 0853 Third truckload offsite
 0910 Fourth truckload offsite
 1004 Fifth truckload offsite
 1019 Sixth truckload offsite
 1033 Elevation of F3 at 627.15
 1100 Elevation of F3 at 627.06
 1119 Seventh truckload offsite
 1140 Elevation of F3 at 627.17
 1143 Eighth truckload offsite

- 1235 Ninth truckload offsite.
 1255 Tenth truckload offsite.
 1340 START collected confirmation
 surface soil sample for F3 @ 627
 1350 Eleventh truckload offsite
 1402 Elevation of D3 at 627.14
 1409 Twelfth truckload offsite
 1453 START collected confirmation surface
 soil sample for D3 @ 627
 1526 Elevation of A3 at 626.93
 1600 START collected confirmation surface
 soil samples for A3 @ 627
 1610 START collected confirmation surface
 soil samples for B3 @ 627.
 1615 Gilais were pulled and calibrated

Pump #	Location	Flow rate
027	upwind	2.06
028	Building	1.96
029	Downwind	2.07

 1630 VIPER run stopped, START began
 collecting DRX's.
 1730 End of operations onsite. START
 to process soil samples offsite
 and ship priority overnight.

1744

- 0700 START, EPA and ERRS onsite
 weather: 45° F High of 57° F
 Partly Sunny, 72% Humidity 4 mph
 N.W. winds
 0740 First truckload offsite, START setting
 up DRX's
 0742 Air pump calibration

Pump #	Location	Flow rate
027	upwind	2.06
028	Building	1.97
029	Downwind	2.00

 0748 Second truckload offsite
 0800 ERRS working on transferring 750ppm
 PCB pile to access tiles underneath.
 0854 Third truckload offsite
 1017 Fifth truckload offsite
 1027 Sixth truckload offsite
 1051 Elevation of D1 at 627.18
 1113 Elevation of D1 at 627.09
 1144 Elevation of D2 at 626.85
 1150 Eighth truckload offsite
 1300 Elevation of D2 at 627.17
 1323 Ninth truckload offsite
 1344 Elevation of D1 at 627.22
 1355 ERRS began spraying the site with
 water due to elevated DRX reading *Rite in the Rain*

1420 START collected confirmation surface

soil sample for D1 @ 627

1540 START began collecting Gilvins

for processing and calibration

Pump #	Location	Flow End
027	Upwind	2.05
028	Building	1.93
029	Downwind	1.38

1554 Elevation of D2 at 627.04

1602 START end VIPER run and began
bringing in DRX's1610 START collected confirmation surface
soil sample for D2 @ 627

DRX

0700 START and ERRS onsite at Chudnow.

Weather: 50°F, cloudy skies

1 mph NW winds, 89% humidity

0710 START began setting up DRX's for
air monitoring.

0730 First truckload offsite

0745 START set out gilvins for sample
collection.

Pump #	Location	Flow Start
027	Upwind	2.08
028	Building	2.00
029	Downwind	1.49

0758 Second truckload offsite

0815 ERRS began spraying water on the
site due to elevated VIPER readings.

0852 Third truckload offsite

0853 Elevation of CH at 626.56

0935 START collected a confirmation
surface soil sample from CH @ 627

0950 Fifth truckload offsite (DUPOL)

1026 Sixth truckload offsite

1100 Elevation of G4 at 627.4

1134 Eighth truckload offsite

1150 Elevation of CB at 627.04

Elev 1152 Elevation of G4 at 627.36

- 1255 Ninth truckload offsite.
 1315 START collected confirmation surface
 Soil Sample from C3 @ 627 (DUP #2)
 1320 START collected confirmation surface
 Soil Sample from G4 @ 627.
 1405 Elevation of G3 at 626.89
 1500 START collected confirmation surface
 Soil Sample from G3 at 626.5
 1545 Elevation of G2 at 627.41
 1600 START began collecting gilaies
 for calibration and processing.
- | Pump # | Location | End Flow |
|--------|----------|----------|
| 027 | Upwind | 2.01 |
| 028 | Building | 1.99 |
| 029 | Downwind | 2.06 |
- 1635 START collected confirmation surface
 Soil Sample from G2 @ 627
 1630 START shut down VIPER and began
 collecting DRX's
 1700 START moved offsite for sample
 processing and shipment.

DIT

- 0700 START (D. Higley) and ERRS
 onsite at Chudnow
 weather: 50°F, High 60°F, Sunny
 79% humidity, 1 mph NW winds
 0730 START set up DRX's and VIPER
 network.
 0737 First truckload offsite.
 0740 START calibrated GilAirs.
- | Pump # | Location | Flow Start |
|--------|----------|------------|
| 027 | Upwind | 2.07 |
| 028 | Building | 1.97 |
| 029 | Downwind | 1.94 |
- 0852 Third truckload offsite
 0855 Elevation of F2 at 627.00
 0901 Fourth truckload offsite
 1010 Fifth truckload offsite
 1022 Sixth truckload offsite
 1127 Seventh truckload offsite
 1139 Eight truckload offsite
 1140 ERRS began spraying water
 due to elevated DRX readings
 1150 START marked out intersection
 of C1, C2, B1 + B2.
 1210 START collected confirmation surface
 Soil Sample for F2 @ 627.

- 1310 With truckload offsite
 1325 Elevation of C1 at 627.14
 1600 START collected a confirmation surface soil sample from C1 @ 627
 1605 START to begin collecting Gilais for calibration.
- | Pump # | Location | Flow End |
|--------|----------|----------|
| 027 | Upwind | 2.00 |
| 028 | Building | 1.92 |
| 029 | Downwind | 1.71 |
- 1620 START stopped the VIPER run to begin collecting DRX's.
 1630 START collected confirmation surface soil sample from C2 @ 627.
 1700 START moved offsite for sample processing and shipment.

DX

- 0700 START (D. Higley) and ERRS onsite for morning safety tailgate.
 weather: 43° F, High 69° F, Sunny 1 mph NW winds, 75% humidity.
 0730 START set up DRX's and began VIPER run.
 0735 START calibrated and deployed Gilais.
- | Pump # | Location | Flow Start |
|--------|----------|------------|
| 027 | Upwind | 2.01 |
| 028 | Building | 1.97 |
| 029 | Downwind | 1.98 |
- 0920 START collected WC samples for G1, F3 and the stockpile post-treatment.
 0943 START collected confirmation surface soil sample for H2 @ 627'. (DUPOL)
 1300 START collected confirmation surface soil sample for A1 @ 627.
 1520 Elevation of B2 at 628.39
 1535 ERRS began spraying water due to elevated DRX reading.
 1545 START began collecting Gilais for calibration and processing.
- | Pump # | Location | Flow End |
|--------|----------------------------|----------|
| 027 | Upwind | 1.99 |
| 028 | Downwind - B.E. | 1.93 |
| 029 | Downwind | 2.00 |
- Retire in the Rain*

1604 START stopped the VIPER run to begin collecting DRX's.

1630 All equipment collected

1645 START offsite to process and ship soil samples.

TJH

11/03/22

0700 START (D. Itigley) and ERAS onsite at chudnow metals. For safety tailsite weather: 52° F High 71° F, Sunny 7 mph NW winds, 77% humidity.

0730 START set up DRX's and began the VIPER run.

0745 START calibrated Gilairs

Pump #	Location	Flow Start
027	Upwind	2.06
028	Building	1.97
029	Downwind	2.00
026	DUPOL(VW)	2.02

0840 Elevation of B2 at 627.14

1115 START collected confirmation surface soil sample from B2 @ 626.5

1424 START collected confirmation surface soil sample from B1 @ 627

1340 START collected three french samples from A-3 and B-3.

CM-FL-A3-N/S-626-221103

CM-FL-A3-EV-625-221103

CM-FL-B3-EV-625-221103.

1357 ERRS began spraying more water down due to elevated DRX readings.

1400 START began collecting Gilairs for calibration and sample processing

Pump #	Location	Flow End
027	Upwind	2.01
028	Building	1.96
029	Downwind	1.76
026	DUPOL(VW)	1.94

1625 START started collecting DRX's and stopped the VIPER run.

1655 START offsite for sample processing and shipment.

D.H.

0700 START (D. Higley) OSC (R. Kondreck) and ERRS onsite at Chudnow.

Weather: 63°F, High 67°, cloudy skies
11 mph NW winds, 63% chance of rain.

0730 START setup DRX's and began VIPER run. Gilairs will not ~~be~~ be deployed due to high probability of rain in the afternoon.

0935 Second truckload offsite.

0940 START finished all clean soil kits for confirmation samples at 627.

1050 START shut down VIPER run and covered DRX's with plastic due to rainfall.

1125 ERRS to shut down operations for 30 minutes due to lightning strikes.

1230 START collected all DRX's due to sustained rainfall.

1402 Fourth truckload offsite.

1530 START and ERRS offsite. No samples to process or ship.

WH

0700 START and ERRS onsite at Chudnow
Weather: 39°F, High of 48°, Sunny
8 mph W winds, 44% humidity.

0730 START set up 3 Dusttraks and began VIPER run.

0732 First truckload offsite.

0740 START calibrated Gilairs for deployment.

Pump #	Location	Flow Start
027	upwind	2.02
028	Building	2.00
029	Downwind	2.04

0839 Second truckload offsite.

11008 START collected confirmation surface soil sample from A2, A3, A4 @ 628.

1240 START replaced external batteries for DRX H's 1 and 2.

1322 START collected trench sample
CM-FL-E3-N/S-625-221107 + (DVPOL)

1326 CM-FL-E3-E/W-625-221107

1341 CM-FL-D3-E/W-625-221107 (MS/MSD)

1350 CM-FL-C3-N/S-625-221107

1355 CM-FL-C3-E/W-625-221107 for a total of 9 samples to Eurofins Canton.

1510 START collected Gilairs for calibration.

Return to the River

Pump #	Location	Flow End
027	upwind	2.06
028	Building	2.04
029	Downwind	1.17
1320	START stopped VIPER run and began collecting DRX's	
1330	START moved offsite to process and ship soil samples.	

DH

11/8/22

0700 START (D. Higley), OSC (R. Kondreck) and ERRS onsite at Chudnow.

Weather: 44°F, High 44°F, Sunny
11 mph SE winds, 65% humidity

0730 START deployed DRX's and began the VIPER run.

0740 START calibrated and deployed GilAir's

Pump #	Location	Flow Start
027	Downwind	2.04
028	Building	1.98
029	upwind	2.02

0900 ERRS began backfilling the trench with sand.

1155 START pulled in and calibrated GilAir's

Pump #	Location	Flow End
027	Downwind	2.07
028	Building	2.02
029	upwind	2.01

1540 START stopped VIPER run and collected DRX's.

1627 START and ERRS offsite, no samples for shipment.

DH

11/9/22

0700 START (D. Higley), OSC (R. Kondreck) and ERRS onsite at Chudnow

Weather: 50°F, High 66°F, cloudy
9 mph S winds, 50% humidity

0730 START set up DRX's and began VIPER run. GilAir's will not be deployed due to the fact that no hazardous material is being moved.

0841 VIPER alert from Line 3. Reading > 1.5 mg/m³ 1 min. total 1.84

This was due to the use of a dremel 15 feet upwind from the DRX, resulting smoke and dust was heading directly towards the downwind DRX.

1000 ERRS continued to spread sand on southern grids and level out all grids that were excavated down to 626.5 This is done to ensure there are no air gaps after laying down the Bentonite cap.

Rite in the Rain

Grids taken down to 626.5'

G3, B2 and CH. Sand is being stockpiled across AH, BH, CH and DH.

1500 START stopped VIPER run and brought in DRX's for charging.

1530 START, OSC and ERRS offsite for the day, EOD.

DH

11/10/22

0700 START (D. Higley) OSC (A. Kandrak) and ERRS onsite at Chudnow.

weather: 61°F, High 74°F, Sunny, 4 mph S winds, 70% humidity.

0730 START deployed DRX's and began VIPER run. GilAir's will not be deployed as no hazardous material is to be moved on-site.

0800 ERRS continued stockpiling sand on Grids AH, BH, CH and DH. B2 and G3 were brought to grade @ 627.

0907 Second truckload of sand on-site

0927 Third truckload of sand on-site

1028 Fourth truckload of sand on-site

1052 Fifth truckload of sand on-site

1148 Sixth truckload of sand on-site

1308 Seventh truckload of sand on-site

1338 Eighth truckload of sand on-site

1405 START sprayed out boundaries of F1, F2, G1 + G2 so sand could be transferred and stockpiled on those grids.

1436 Ninth truckload of sand on-site

1555 Tenth truckload of sand on-site

1630 ERRS laid down a poly-liner over A1, A2, B1, B2, C1 + C2 and covered with stones, followed by sand.

1730 START (D. Higley) and ERRS offsite, no site work to be conducted tomorrow due to the federal holiday. Bent-pump may be delivered ~~at 7 p~~ 1900.

DH

44 11/14/22

Chudnow Metals RV

0654 START (Scholl) on-site, ERRS on-site. Weather: 25°F, high: 39°F, sunny, Wind: S @ mph, 76% Humidity.

0700 Morning ops & H&S meeting. Bento mat delivered Saturday 11/12/22 @ approx 10 AM.

0709 START deploying DRXs. No gil ams being deployed because no hazardous material is being moved.

0809 First truckload of sand on-site

0813 Second truckload of sand on-site

0911 HERC Rentals on-site to service excavator.

ERRS laying Bento-mat in Southwest grids.

0919 Third truckload of ~~set~~ AS sand on-site

0923 Fourth truckload of sand on-site

^{AS} 0928 Fifth truckload of sand on-site EPA (McGuire) on-site.

1154 Sixth truckload of sand on-site.

1323 Seventh truckload of sand on-site

1429 Eighth truckload of sand on-site

1441 Ninth truckload of sand on-site.

Chudnow Metals RV

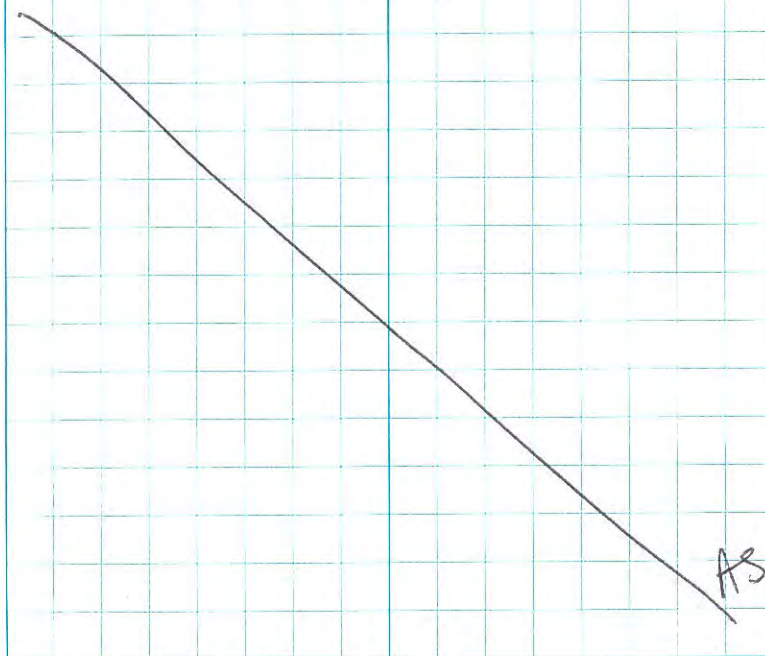
11/14/22 45

1519 Tenth truckload of sand on-site
1558 Eleventh truckload of sand on-site

1636 Bentomat placed in cells A3, B3, C3, D3, E3, F3, E4, F4, G4. Orange fabric placed over Bentomat and covered with layer of gravel then sand.

1700 START pulling in DRXs.

1720 START (Scholl) off-site



Rate in the Rain

11/15/22

Chudnow Metals RV

- 0656 START (Scholl), EPA (McGuire),
ERKS on-site. Weather 36°F,
High: 39°F, Snow, Wind:
E 12 mph, 73% Humidity.
- 0700 Morning ops & H&S meeting.
No air monitoring or sampling
due to weather, no haz.
material being moved.
- 0709 EPA (Wawczak) on-site
- ~~0721 First truckload of sand on-site~~ AS
- 0745 Power out in trailers, entire
block lost power.
- 0822 First truckload of sand on-site
- 0844 Power back on in trailers
- 0845 Second truckload of sand on-site
- 0955 Milwaukee waterworks on-site, spoke
with EPA (McGuire)
- 1005 Third truckload of sand on-site
- 1007 Fourth truckload of sand on-site.
NOTE: Milwaukee Water Works will be
on-site 11/16 to repair water line
- 1125 Fifth truckload of sand on-site.
- 1128 Sixth truckload of sand on-site.
- 1248 Seventh truckload of sand on-site
- 1251 Eighth truckload of sand on-site
- 1404 Ninth truckload of sand on-site

Chudnow Metals RV

11/15/22 47

- 1407 Tenth truckload of sand on-site.
- 1450 Elevation in B3 = 628.29 ft amsl
Elevation in D3 = 628.11 ft amsl
- 1537 Eleventh truckload of sand on-site
- 1539 Twelfth truckload of sand on-site
- 1634 EPA (Wawczak) off-site
- 1720 START (Scholl) off-site

R6

Rite in the Rain

48 11/16/22 Chudnow Metals RV
 0656 START (Scholl), ERRS, on-site.
 Weather: 34°F, High: 37°F.
 Cloudy, wind: NW 10 mph,
 86% Humidity.

0706 Morning ops & H&S meeting.
 ERRS will continue covering
 site with backfill sand.

0706 START deploying DRXs. No
 air samples being deployed
 as no haz. material being
 moved.

0826 First truckload of sand on-site.

0829 Second truckload of sand on-site

0836 EPA (McGuire) on-site

0935 Elevation in: G1 = 628.46 ft
 Elevation of G2 = 628.49 ft
 Elevation of F1 = 628.17 ft
 Elevation of F2 = 628.08 ~~628.08~~ AS

0939 Third truckload of sand on-site

0945 Fourth truckload of sand on-site
 Milwaukee Water Works on-site

1000 EPA (Wawczack) on-site.

1046 Fifth truckload of sand on-site

1056 VIPER showing high readings
 downwind, ERRS crew alerted, Skid
 Steer putting out a lot of exhaust



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Chudnow RV
Logbook 3



Rite in the Rain®

ALL-WEATHER

FIELD

No 351FX

2 11/16/22

Chudnow Metals RV

- 1056 ~~right next to~~^{4'} approx 15 feet from unit and moving sand next to it.
- 1201 Sixth truckload of sand on-site
- ~~1201~~ 1324 Seventh truckload of sand on-site
- 1338 Eighth truckload of sand on-site
- 1342 Twelve rolls of AstroTurf delivered to site.
- 1505 VIPER alert received for downwind station, TWA > 1.5 mg/m³. ERRS crew alerted. ERRS was moving sand with skid steer, which was emitting more exhaust than usual, approx. 5 feet from DRX unit at time of alert.
- 1629 Downwind DRX run stopped due to pump voltage error. New battery deployed.
- 1644 Building entrance DRX run stopped due to pump voltage error. New battery deployed.
- 1730 START (Scholl) off-site

AB

Chudnow Metals RV

11/17/22 3

- 0657 START (Scholl), EPA (McGuire), ERRS on-site. Weather: 32°F High: 34°F. Snow flurries. Wind: WSW 16 mph. 72% Humidity
- 0700 Morning ops \pm H₂S meeting. ERRS will continue to backfill site with sand. No air monitors/samples in AM due to snowfall. No sampling, as no haz. material being moved.
- 0735 Snow flurries stopped, not expected to snow the rest of the day. START deploying DRXs.
- 0804 First truckload of sand on-site
- 0816 Second truckload of sand on-site
- 0843 Elevation in G3 = 629.15
Elevation in F3 = 629.07
- 0921 Third truckload of sand on-site
- 0933 Fourth truckload of sand on-site
- 0940 Milwaukee water works on-site
- 1032 Fifth truckload of sand on-site

Rite in the Rain

4 11/17/22

Chudnow Metals RV

- 1034 Light snow furries starting, DRX being covered in plastic bags.
- 1045 Snow coming down heavier, DRX/VIPER runs stopped, units fully covered.
- 1048 Sixth truckload of sand on-site.
- 1137 Elevation of sewer in B2 = 628.9 ft amsl
- 1149 Seventh truckload of sand on-site.
- 1259 Eighth truckload of sand on-site.
- 1330 Ninth truckload of sand on-site.
- 1356 Snow stopped, expected to be finished for the rest of the day. DRX runs being restarted.
- 1401 Snowing again, DRXs not being restarted yet.
- 1448 Tenth truckload of sand on-site.
- 1530 Eleventh truckload of sand on-site.
- 1603 Twelfth truckload of sand on-site.
- 1613 NO DRX rest of day due to snow.
- 1720 START (Schell) off-site

AS

Chudnow Metals RV

11/18/22

5

- 0655 START (Schell), EPA (McGure), ERRS on-site. Weather: 27°, High: 28°, Wind: W 15 mph, 71% Humidity.
- 0700 Morning ops & H&S meeting. ERRS continuing to backfill site.
- 0706 START deploying DRXs. No air samples deployed, as no hazardous material is being moved.
- 0749 First truckload of sand on-site.
- 0752 Second truckload of sand on-site.
- 0901 VIPER alert received at downwind unit, TWA > 1.5 mg/m³. ERRS not working directly next to unit, but strong gusts of wind blowing visible amounts of dust toward unit. Crew alerted of exceedance.
- 0908 Third truckload of sand on-site.
- 0917 Fourth truckload of sand on-site.
- 1001 VIPER Alert downwind, TWA > 1.5 mg/m³. Strong

Return to Rain.

6 11/18/22 Chudnow Metals RV
winds continuing to blow
towards unit. ERKS crew
alerted.
1026 Fifth truckload of sand on-site
1032 VIPER Alert, Downwind
TWA > 1.5 mg/m³. Crews on
break at time of alert,
no work occurring by DRX.
Strong winds continuing.
1041 Sixth truckload of sand on-site
1053 Elevation in B4 = 629.23
1127 Light snow flurries, covering
DRX units with bags, weather
guards left poking out
and runs left on.
NOTE: while covering, START
noticed extremely high
readings at downwind
DRX as high as 300 ppm.
START re-zeroed unit and
re-started run, unit reading
normal now.
1150 Seventh truckload of sand on-site
1154 Eighth truckload of sand on-site.
1242 VIPER Alert downwind,
TWA > 1.5 mg/m³, strong

11/18/22 Chudnow Metals RV
winds blowing during
alert. Crew notified.
1301 Ninth truckload of sand
on-site
1304 Tenth truckload of sand
on-site
1410 Eleventh truckload of sand
on-site.
1414 Twelfth truckload of sand
on-site
1504 Building DRX run stopped.
New battery deployed and
run re-started.
1523 Thirteenth truckload of
sand on-site.
1533 Fourteenth truckload of
sand on-site.
Heavy snowfall starting,
DRX runs stopped and
units fully covered.
1556 Snow stopped, runs
re-started.
1615 Downwind VIPER
Alert received, at
time of alert, Down-

8 11/18/22 Chudnow Metals RV
 wind DRX stopped running
 on VIPER. START deployed
 new battery.
 1123 crews done moving sand,
 START tearing down DRX
 1145 START (Schell) off-site

Chudnow Metals RV 11/21/22 9

0700 START (Hagley) and ERRS on-site
 for morning HHS meeting.

Weather: 32°F, High 39°F, Sunny
 13 mph w winds, 56% humidity

0702 First TSCA truck from Heritage
 arrived on-site.

0745 Second Heritage truck on-site

0748 START setup DRX's and began VIPER
 run, Downwind DRX is having connectivity
 issues.

0804 START calibrated and deployed GilAir's

Pump #	Location	Start flow
027	upwind	2.03
028	Building	1.99
029	Downwind	1.99

0805 Third Heritage truck on-site

0830 Fourth Heritage truck on-site

0852 Fifth Heritage truck on-site

0940 Sixth Heritage truck on-site

1008 Seventh Heritage truck on-site

1036 Eighth Heritage truck on-site

1355 Elevation of G1 at 629.07

1432 START collected & calibrated GilAir's

Pump #	Location	End Flow
027	upwind	2.08
028	Building	2.07
029	Downwind	1.91 <i>Rite in the Rain</i>

1445 START stopped VIPER run and collected DRX's.

1530 START (Higley), EPA (Kondreck), and ERRS off-site.

DH

11/22/22

0658 START (Higley), EPA (Kondreck) and ERRS onsite at Chudnow. First truck from Heritage is onsite.

0700 START began setting out DRX's.

0725 START began VIPER run and calibrated Gilairs.

Pump #	Location	Flow Start
027	Upwind	2.03
028	Building	1.98
029	Downwind	1.98

0728 Second Heritage truck onsite.

0748 Third Heritage truck onsite.

0807 Fourth Heritage truck onsite.

0848 Fifth Heritage truck onsite.

0910 First Backfill truck onsite.

0913 Second Backfill truck onsite.

0929 Sixth Heritage truck onsite.

0955 Seventh Heritage truck onsite.

1012 Eighth Heritage truck onsite.

1037 Third Backfill truck onsite.

1203 Fifth Backfill truck onsite.

1220 START transferred all remaining soil sample bags into the TSCA pile for removal offsite.

1240 In the afternoon, ERRS continued to level out the backfill throughout the site.

1304 Sixth backfill truck onsite.

1318 Seventh backfill truck onsite.

1357 TWA reading 71.5 mg/m³ VIPER alert received. Skid steer is being used to level out sand within 5 feet of the Downwind DRX.

1419 Eight backfill truck onsite.

1430 Elevation of G1 at 629.02
Elevation of G2 at 629.36
Elevation of G3 at 629.54

1445 START collected and calibrated GilAir's

Pump #	Location	Flow End
027	Upwind	2.03
028	Building	2.03
029	Downwind	2.16

1455 START stopped VIPER run and began collecting DRX's.

1530 START (Higley), EPA and ERRS offsite.

12 Chudnow Metals RV 11/23/22

- 0700 START (Higley), EPA (Kondreck) and ERRS onsite at Chudnow.
- 0706 First Heritage truck onsite
- 0710 START deployed DRX's and started VIPER run. Gilhr's will not be deployed as the crew will only be working a half-day due to the Holiday.
- 0726 Second Heritage truck onsite.
- 0744 Third Heritage truck onsite.
- 0804 Fourth Heritage truck onsite.
- 0821 Fifth Heritage truck onsite.
- 0922 Sixth Heritage truck onsite.
- 0850 START stopped VIPER run and collected DRX's for data download.
- 1000 START (Higley), EPA (Kondreck) and ERRS offsite, half day due to Holiday.

DX

12/28/22 Chudnow Metals RV 13

0936 START (Scholl) on-site. ERA, ERKS on-site. Weather: 34°, High, 45°, Wind: SSW 1 mph, 77% humidity Sunny.

0956 Pump Calibrations

Pump#	Location	Flow	Start
029	Upwind	1.89	1006
028	Downwind	2.00	1008
027	Building	2.05	1005

Field blank placed downwind 1009

- 1010 First Heritage truck off-site
- 1034 Second Heritage truck off-site
- 1046 Third Heritage truck off-site
- 1109 ^{AS} ~~Fifth~~ ^{4th} Heritage truck off-site
- 1129 ^{AS} ~~Sixth~~ ^{5th} Heritage truck off-site
- 1150 ^{AS} ~~Seventh~~ ^{6th} Heritage truck off-site
- 1303 7th Heritage truck off-site
- 1332 8th Heritage truck off-site
- 1413 Crew ending work @ 1500, START tearing down air samples/monitors.
- 1500 START (Scholl) off-site

AS

14 11/29/22

Chvalnow Metals RV

0658 START (Scholl), EPA (Kondreck)
 ERKS on-site. Weather: 39°
 High: 54°, Cloudy, Wind:
 SE 9 mph, 85% Humidity.

0700 Morning H&S meeting.
 Expecting approx 6-8
 Heritage trucks.

0710 START deploying DRXs

0725 Pump calibration

pump#	Location	Flow	Start
026	Upwind	1.99	0732
030	Downwind	2.10	0731
027	Building	2.03	0730

0738 First Heritage truck off-site

0842 Second Heritage truck off-site

0905 Third Heritage truck off-site

1042 ERKS taking old fencing
 off-site to be scrapped

1059 Upwind DRX moved approx
 60 ft north to allow ERKS to
 continue backfilling G4 & G3

1212 Fourth Heritage truck off-site AS
~~Fifth Heritage truck off-site~~

1220 Light rain starting, DRX
 runs stopped, units covered
 with plastic bags.

Chvalnow Metals RV 11/29/22

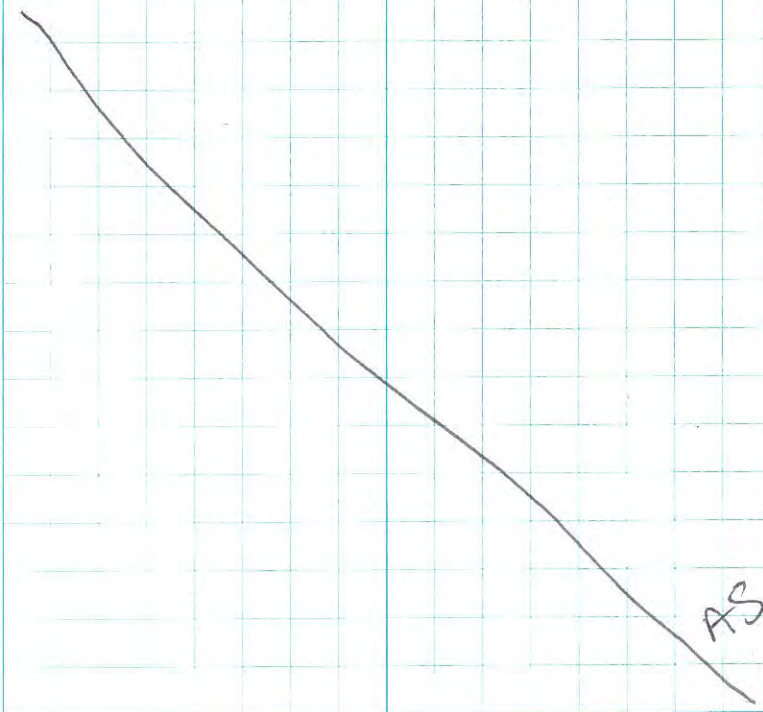
15

1235 Fifth Heritage truck off-site

1320 Rain ended, expected
 to stay clear rest of
 day. DRX runs re-started.

1455 Rain starting again; air
 samples/monitors torn down,
 as ERKS is no longer moving
 hazardous material.

1525 START (Scholl), EPA,
 ERKS off-site.



Rite in the Rain

0700 START (Schell), ERKS on-site.
 Weather: 25°, High: 34°;
 cloudy, wind: WSW 14 mph,
 63% Humidity.

0705 START deploying DRXs

0722 Pump Calibration

pump#	location	Flow	Start
027	upwind	1.95	0731
030	Downwind	2.00	0733
028	Building	1.94	0729
020	BE Dup.	1.99	0729

0732 First Heritage truck off-site

0754 Elevation Surveys:

G4= 629.22 ft amsl

F4= 629.33 ft amsl

E4= 629.13 ft amsl

0803 Second Heritage truck off-site

0825 Third Heritage truck off-site

0850 VIPER Alert, Downwind
 TWA > 1.5 mg/m³. Strong
 winds at time of alert, ERKS
 loading TSCA waste. Crew
 instructed not to stand
 downwind while TSCA waste
 being loaded.

0855 Fourth Heritage truck off-site

0928 VIPER Alert, Downwind
 TWA > 1.5 mg/m³. No
 work being conducted at
 time of alert; strong wind.
 1103 VIPER Alert, Downwind TWA
 > 2.5 mg/m³. Crew on
 break at time of alert.
 Strong winds.

1113 Snow flurries starting,
 DRX Runs stopped/covered
 with bags

1127 ERKS rolling out Bentomat
 in cells C1, D1, E1.

1212 Fifth Heritage truck off-site

1215 EPA (Kondreck) on-site
 - ERKS rolling out Bentomat
 in C2, D2, E2

1218 All hazardous material off-
 site, START pulling in air
 samples & monitors

1225 First truckload of mulch delivered

1324 End flows:

DW= 2.14

WW= 2.09

BE= 2.00

DUP= Fault
 = 2.05

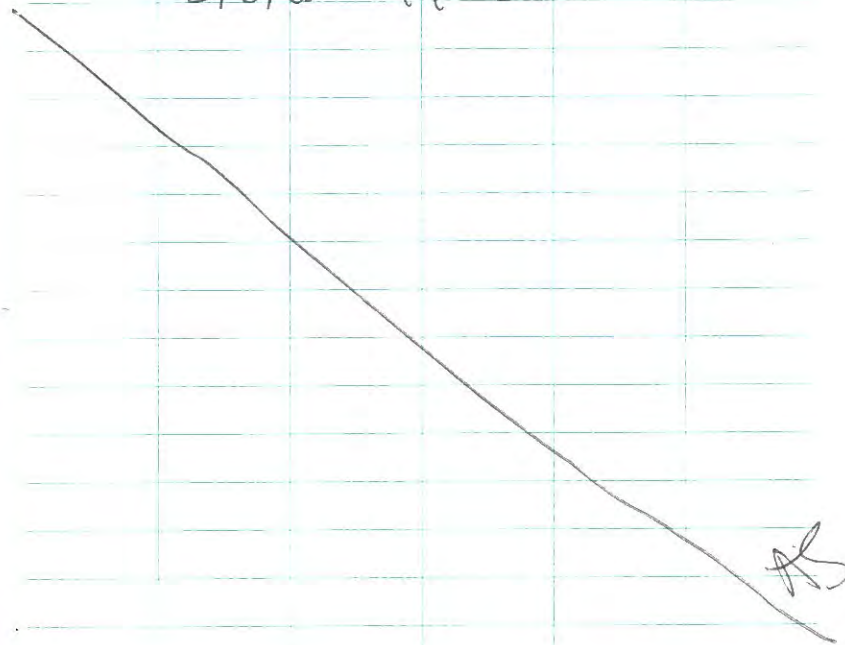
18 11/30/22 Chudnow Metals RV

1327 ~~CM-AS-DUP-221130~~ faulted
CM-AS-DUP-221130 did not
fault, START had it connected
incorrectly.

1335 Third truckload of mulch
delivered.

1630 ERKS finished covering
site in orange warning
barrier and continued
backfilling with sand.

1730 START (Scholl), EPA (Kondreck),
ERKS off-site.



Chudnow Metals RV 12/1/22 19

0655 START (Scholl), EPA (Kondreck),
ERKS on-site. Weather:

18°, High: 36°, sunny,
wind: W 8 mph, 69%
Humidity. Per EPA,
no air monitoring/sampling,
as all hazardous waste
is off-site.

0700 Morning H&S meeting.
ERKS continuing to
backfill with sand.

0758 ERKS skid steer not working
due to being left in the
cold; likely need to order
a new one

0817 Elevation of G1 = 628.69
Elevation of G2 = 629.67

0830 START marks southeast
corner of planned fence

0938 Elevation of G1 = 629.10
-ERKS beginning to
spread mulch along east
portion of the site

1058 Rented skid-steer from United
Rentals Delivered to site.

Rite in the Rain

12/11/22

Chudnow Metals RV

1114 First truck of sand delivered to site.

1117 Second truck of sand delivered to site.

1155 First truck of mulch delivered.

1247 Second truck of mulch delivered.

1341 Third & Fourth trucks of sand delivered.

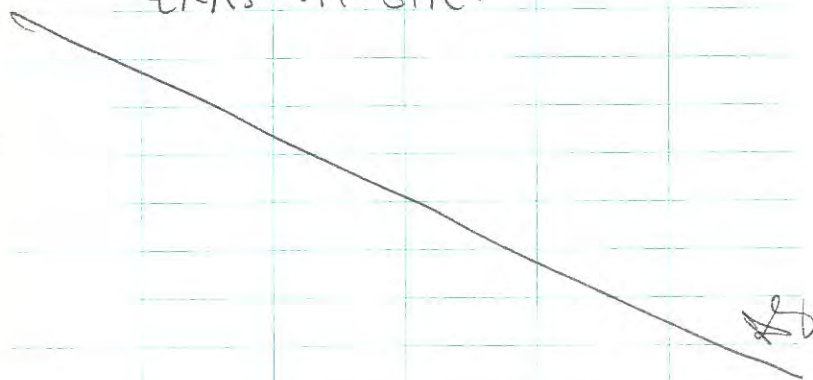
1343 Third truck of mulch on-site.

1456 Fifth truck of sand delivered.

1457 Sixth truck of sand delivered.

NOTE: when taking down laser level, the laser level was dropped and glass around laser cracked. EPA notified so that repairs can be made.

1600 START (Scholl), EPA (Kondrect), ERKS off-site.



Chudnow Metals RV

12/2/22

0657 START (Scholl), EPA (Kondrect), ERKS on-site. Weather: 37°, High: 48°, Cloudy, Wind: S 10 mph, 50% Humidity.

0700 Morning H&S meeting. ERKS continuing to backfill. More sand being delivered today.

0810 First truck of sand delivered.

0816 Second truck of sand delivered.

0818 Third truck of sand delivered.

0951 START collected final elevation surveys of G1, G2, G3, G4.

NOTE: Four additional trucks of sand delivered between 0924 and 0951.

START marked monitoring wells and west property line fence posts.

1021 For MW installation Monday - MW-12 will be moved approx. 1 foot east into cell B3 so that it is installed in a cell with remaining PCB < 50 ppm.

- 1034 Eighth truck of sand delivered
 1037 - Porta-potty hand wash
 picked up by Stop-N-Go
 - Ninth truck of sand delivered
 1056 Tenth truck of sand delivered
 1156 Eleventh truck of sand delivered
 1200 Twelfth truck of sand delivered
 1312 Thirteenth truck of sand delivered
 1419 START collected final
 elevation surveys of F1,
 F2, F3 ^{final as}
 1447 START collected elevation
 surveys of E1, E2, E3.
 - Two more trucks of sand
 on site.
 - NOTE: START documented
 damage to fence revealed
 after ERKS removed
 cinder blocks by building.
 Damage not produced by
 ERKS; was already there.
 - ERKS moving under
 blocks from fence next to
 building to east property
 w/ retaining wall.

1500 EPA (Kondreck) & START (Scholl) off-site

- 0655 START (Scholl), ERKS on-site.
 Weather: 34°, High: 39°;
 cloudy, wind: SW
 11 mph, 54% Humidity.
 0700 Morning H&S meeting. ERKS
 continuing to backfill site
 & spreading mulch
 0745 START collected final elevation
 surveys of A4, B4, B3
 0808 START collected final elevation
 survey of D1
 0810 START (Howie) on-site
 0825 Well installers on-site
 0835 First truck of sand on-site
 0905 MW-13 being installed
 Drilling start time: 0908⁴⁵
 Drilling stop time: ~~0909~~ 0923
 Final depth: 18 ft bgs
 0912 EPA (Hendrickson) on-site
 0927 MW-13 box being installed
 0950 MW-13 being purged
 Second truck of sand on-site
 0952 MW-12 installation
 Drill start: 0952
 Drill stop: 0956

12/5/22

Chudson Metals RV

- Final depth: 18 ft bgs
- 1007 MW-13 finished purging
MW-13 casing: 3 ft ags
- 1018 EPA (Kondreck) on-site
- 1020 Forks delivered to site
- 1037 MW-12 case installed
- 1045 MW-12 being purged
- 1100 MW-12 finished purging
Third truck of sand on-site
- 1110 Well installers off-site
- 1125 NOTE: Comm 05 has
duct taped antenna
- 1128 START (Houle) off-site
- 1255 ERRS spreading last of
backfill sand.
- 1333 START collected final elevation
surveys in D2 & D3
- 1404 Field Maps temporarily
not loading, START troubleshooting
- 1420 ERRS relocating shed
- 1436 GeoPlatform experiencing
system-wide outage, cannot
collect elevation surveys at
this time
- 1528 START collected elevation
surveys of F4.

Chudson Metals RV

12/5/22

- 1530 Tenant taking old turf
off-site
- 1630 START (Scholl), EPA, ERRS
off-site

0658 START (Scholl) EPA (Kondreck),
ERRS on-site. Weather:
36°, High: 39°, Wind:
N 7 mph, 78% humidity.
Chance of rain in the
afternoon.

0700 Morning H&S meetings.
ERRS will finish spreading
mulch & START will collect
final elevation surveys.

0753 START collected final elevation
surveys in C1 & C2
NOTE: START will need to
re-take final surveys in A4 &
B4 because they were initially
taken before mulch was spread

0827 START collected final elevation
surveys in B1, B2 & C3

0840 MW-12 hit with front-end
loader and knocked out of
place due to un-set cement;
ERRS will lay more concrete
around base. Well was not
damaged.

0920 ERRS relocating astroturf rolls
to grid E1

1030 START collected final elevation
surveys of A1, A2, & A3

1045 START collected final
elevation surveys of E4

1107 TRUCK on-site to pick up
excavator

1149 Excavator off-site

1218 START collected final
elevations of A4, B4, C4, &
D4. Elevation surveys
completed.

1223 NOTE: Reinstalled MW-12
is now "MW-12R" and
reinstalled MW-13 is now
"MW-13R"

1430 START & EPA marking
fence post locations for
tenant with stakes

1528 START taking ~~final~~ AS new
GPS points of MW-12R &
MW-13R

1600 START (Scholl), EPA (Kondreck),
ERRS off-site

AS

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County Milwaukee	WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (see instructions) 43.043523 -87.981620	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input checked="" type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 1/4 NE 1/4 NW or Gov't Lot #	Section 26	Township 7 N
Well Street Address 5401 State St	Range 21	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well City, Village or Town Milwaukee	Well ZIP Code 53208	
Subdivision Name _____	Lot # _____	
Reason for Removal from Service _____	WI Unique Well # of Replacement Well _____	

2. Facility / Owner Information

Facility Name Chudnow		
Facility ID (FID or PWS) 241772639		
License/Permit/Monitoring # MW-12		
Original Well Owner Jim Smith		
Present Well Owner Jim Smith		
Mailing Address of Present Owner 5401 State St		
City of Present Owner Milwaukee	State WI	ZIP Code 53208

3. Filled & Sealed Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 11/15/2018 If a Well Construction Report is available, please attach. _____
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): Probe	
Formation Type: <input type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 25	Casing Diameter (in.) _____
Lower Drillhole Diameter (in.) 2 in	Casing Depth (ft.) _____
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)? _____	Depth to Water (feet) 13.12

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Was casing cut off below surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface		1 25lb bag	

6. Comments

Monitoring wells abandoned during EPA removal action.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Tetra Tech, on behalf of USEPA	License # _____	Date of Filling & Sealing or Verification (9/23/2022)	DNR Use Only	
			Date Received	Noted By
Street or Route 1 S Wacker Drive			Comments	
City Chicago			Signature of Person Doing Work 	
State IL			Date Signed 10/13/22	
ZIP Code 60606				

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

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Route to DNR Bureau:

☐ Verification Only of Fill and Seal

☐ Drinking Water

☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

1. Well Location Information

County Milwaukee	WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (see instructions) 43.043435 N -87.981051 W	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input checked="" type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 1/4 NE 1/4 NW or Gov't Lot #	Section 26	Township 7 N
Well Street Address 5401 State St	Range 21 E <input type="checkbox"/> W	
Well City, Village or Town Milwaukee	Well ZIP Code 53208	
Subdivision Name	Lot #	
Reason for Removal from Service	WI Unique Well # of Replacement Well	

2. Facility / Owner Information

Facility Name Chudnow		
Facility ID (FID or PWS) 241772630		
License/Permit/Monitoring # MW-13		
Original Well Owner Jim Smith		
Present Well Owner Jim Smith		
Mailing Address of Present Owner 5401 State St		
City of Present Owner Milwaukee	State WI	ZIP Code 53208

3. Filled & Sealed Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 11/15/2018 If a Well Construction Report is available, please attach.
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): Probe	
Formation Type: <input type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 25	Casing Diameter (in.) _____
Lower Drillhole Diameter (in.) 2	Casing Depth (ft.) _____
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)? _____	Depth to Water (feet) 19.97

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Was casing cut off below surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface		1 25lb bag	

6. Comments

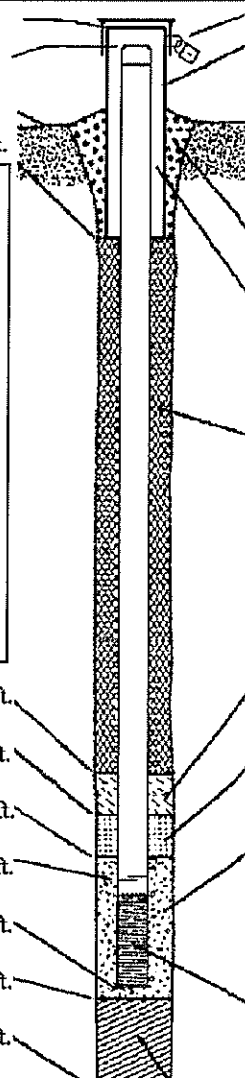
Monitoring well abandoned during EPA removal action.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Tetra Tech, on behalf of USEPA	License # _____	Date of Filling & Sealing or Verification (9/23/2022)	DNR Use Only	
Street or Route 1 S Wacker Drive	Telephone Number (312) 201-7700	Comments	Date Received	Noted By
City Chicago	State IL	ZIP Code 60606	Signature of Person Doing Work <i>[Signature]</i>	Date Signed 10/13/22

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name <u>Chudnow</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>MW-13</u>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. <u>43°04'37"</u> Long. <u>-87°48'14"</u> or	Wis. Unique Well No. <u> </u> DNR Well ID No. <u> </u>
Facility ID <u>241772630</u>	St. Plane <u> </u> ft. N. <u> </u> ft. E. S/C/N <u> </u>	Date Well Installed <u>12/05/2022</u> m m d d y y y y
Type of Well Well Code <u> </u> / <u> </u>	Section Location of Waste/Source 1/4 of <u> </u> 1/4 of Sec. <u> </u> T. <u> </u> N. R. <u> </u> <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>R. Houle, Tetra Tech</u>
Distance from Waste/Source <u> </u> ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	<u>Earth Solutions</u>

<p>A. Protective pipe, top elevation <u>632</u> ft. MSL</p> <p>B. Well casing, top elevation <u>632</u> ft. MSL</p> <p>C. Land surface elevation <u>629</u> ft. MSL</p> <p>D. Surface seal, bottom <u>0.5</u> ft. MSL or <u>0.5</u> ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 <u>DPT</u> Other <input checked="" type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe <u> </u></p> <p>17. Source of water (attach analysis, if required): <u> </u></p> </div> <p>E. Bentonite seal, top <u>0.5</u> ft. MSL or <u>0.5</u> ft.</p> <p>F. Fine sand, top <u> </u> ft. MSL or <u> </u> ft.</p> <p>G. Filter pack, top <u>6</u> ft. MSL or <u>6</u> ft.</p> <p>H. Screen joint, top <u>8</u> ft. MSL or <u>8</u> ft.</p> <p>I. Well bottom <u>18</u> ft. MSL or <u>18</u> ft.</p> <p>J. Filter pack, bottom <u>18</u> ft. MSL or <u>18</u> ft.</p> <p>K. Borehole, bottom <u>18</u> ft. MSL or <u>18</u> ft.</p> <p>L. Borehole, diameter <u>2</u> in.</p> <p>M. O.D. well casing <u>1.33</u> in.</p> <p>N. I.D. well casing <u>1</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>4</u> in. b. Length: <u>2</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u> </u></p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 <u>sand</u> Other <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. <u> </u> Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. <u> </u> Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. <u> </u> % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. <u> </u> Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u> </u> Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u> </u> b. Volume added <u> </u> ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u> </u> b. Volume added <u> </u> ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer <u> </u> c. Slot size: <u>0</u> in. d. Slotted length: <u> </u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
--	---

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature R. Houle Firm Tetra Tech

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name <u>Chudnow</u>	County Name <u>Milwaukee</u>	Well Name <u>MW-12</u>
Facility License, Permit or Monitoring Number	County Code <u>41</u>	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 41
 surged with bailer and pumped ☐ 61
 surged with block and bailed ☐ 42
 surged with block and pumped ☐ 62
 surged with block, bailed and pumped ☐ 70
 compressed air ☐ 20
 bailed only ☐ 10
 pumped only ☒ 51
 pumped slowly ☐ 50
 Other ☐ _____

3. Time spent developing well 15 min.

4. Depth of well (from top of well casing) 21 ft.

5. Inside diameter of well 1 in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well 2 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

17. Additional comments on development:

11. Depth to Water (from top of well casing)

	Before Development	After Development
a. _____ ft.	_____ ft.	_____ ft.
Date	b. <u>12/05/2022</u> m m d d y y y y	<u>12/05/2022</u> m m d d y y y y
Time	c. <u>10:45</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>11:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.

12. Sediment in well bottom _____ inches

13. Water clarity

Clear <input checked="" type="checkbox"/> 10	Clear <input type="checkbox"/> 20
Turbid <input type="checkbox"/> 15	Turbid <input type="checkbox"/> 25
(Describe) _____	(Describe) _____
_____	_____
_____	_____
_____	_____

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Rachel Last Name: Howle

Firm: tetra tech

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____
Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: R Howle

Print Name: Rachel Howle

Firm: tetra tech

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name <u>Chudnow</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <u>MW-12</u>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. <u>43° 04' 37"</u> Long. <u>-87° 08' 14"</u> or	Wis. Unique Well No. <u> </u> DNR Well ID No. <u> </u>
Facility ID <u>241772630</u>	St. Plane <u> </u> ft. N. <u> </u> ft. E. S/C/N <u> </u>	Date Well Installed <u>12/05/2022</u> m m d d y y y y
Type of Well Well Code <u>11 / MW</u>	Section Location of Waste/Source <u>NE 1/4 of NW 1/4 of Sec 26, T. 7 N, R. 21 E</u>	Well Installed By: Name (first, last) and Firm <u>R. Houle, Terra Tech and Earth Solutions</u>
Distance from Waste/Source <u> </u> ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number <u> </u>	

A. Protective pipe, top elevation <u>632</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>632</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4</u> in. b. Length: <u>3</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>629</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u> </u>
D. Surface seal, bottom <u>0.5</u> ft. MSL or <u>0.5</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: <u>sand</u> Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. <u> </u> Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. <u> </u> Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. <u> </u> % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. <u> </u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 <u>DPT</u> Other <input checked="" type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u> </u> Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u> </u> b. Volume added <u> </u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe <u> </u>	8. Filter pack material: Manufacturer, product name & mesh size a. <u> </u> b. Volume added <u> </u> ft ³
17. Source of water (attach analysis, if required): <u> </u>	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top <u>0.5</u> ft. MSL or <u>0.5</u> ft.	10. Screen material: a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top <u> </u> ft. MSL or <u> </u> ft.	b. Manufacturer <u> </u> c. Slot size: <u>0</u> in. d. Slotted length: <u> </u> ft.
G. Filter pack, top <u>6</u> ft. MSL or <u>6</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top <u>8</u> ft. MSL or <u>8</u> ft.	
I. Well bottom <u>18</u> ft. MSL or <u>18</u> ft.	
J. Filter pack, bottom <u>18</u> ft. MSL or <u>18</u> ft.	
K. Borehole, bottom <u>18</u> ft. MSL or <u>18</u> ft.	
L. Borehole, diameter <u>2</u> in.	
M. O.D. well casing <u>1.33</u> in.	
N. I.D. well casing <u>1</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature R. Houle Firm Terra Tech

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name <u>Chudnow</u>	County Name <u>Milwaukee</u>	Well Name <u>MW-13</u>
Facility License, Permit or Monitoring Number	County Code <u>41</u>	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 41
surged with bailer and pumped ☐ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☐ 10
pumped only ☒ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well 15 min.

4. Depth of well (from top of well casing) 21 ft.

5. Inside diameter of well 1 in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well 2 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

17. Additional comments on development:

11. Depth to Water
(from top of well casing)
a. _____ ft. _____ ft.
Date b. 12/05/2022 12/05/2022
m m d d y y y y m m d d y y y y
Time c. 10:45 ☒ a.m. 11:00 ☒ a.m.
p.m. p.m.

12. Sediment in well _____ inches
bottom _____ inches

13. Water clarity Clear ☐ 10 Clear ☐ 20
Turbid ☐ 15 Turbid ☐ 25
(Describe) (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: _____ Last Name: _____

Firm: _____

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____
Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: R Houle

Print Name: Rachel Houle

Firm: Tetra Tech

APPENDIX C
PHOTOGRAPHIC DOCUMENTATION LOG



Photographic Documentation

Client: US Environmental Protection Agency

Site Name: Chudnow Metals Site

Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.

TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108

Dates: September 8 through December 6, 2022

Photograph No. 1

Date: 9/8/2022

Direction: South

Description: Access to berm along the western property line in grid cell A1 at the Chudnow Metals Site (the Site).



Photograph No. 2

Date: 9/8/2022

Direction: East

Description: Vegetated berm along the southern portion of the Site.





Photographic Documentation

Client: US Environmental Protection Agency

Site Name: Chudnow Metals Site

Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.

TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108

Dates: September 8 through December 6, 2022

Photograph No. 3

Date: 9/20/2022

Direction: East

Description: Berm cleared of vegetation.



Photograph No. 4

Date: 9/20/2022

Direction: South

Description: The ERRS crew relocating a small play structure while disassembling outdoor kennels.





Photographic Documentation

Client: US Environmental Protection Agency

Site Name: Chudnow Metals Site

Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.

TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108

Dates: September 8 through December 6, 2022

Photograph No. 5

Date: 9/21/2022

Direction: Northwest

Description: U.S. Environmental Protection Agency (EPA) Field Environmental Decision Support Team (FIELDS) advancing a soil boring in grid A2 during investigative soil sampling.



Photograph No. 6

Date: 9/22/2022

Direction: Southeast

Description: ERRS crew removing AstroTurf from the Site.





Photographic Documentation

Client: US Environmental Protection Agency

Site Name: Chudnow Metals Site

Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.

TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108

Dates: September 8 through December 6, 2022

Photograph No. 7

Date: 9/23/2022

Direction: Overview

Description: START air monitoring station. Air monitoring stations consisted of a DustTrak DRX connected to EPA's VIPER telemetry system and a GilAir-5 air sampling pump



Photograph No. 8

Date: 9/23/2022

Direction: South

Description: ERRS crew establishing exclusion zones.





Photographic Documentation

Client: US Environmental Protection Agency
Site Name: Chudnow Metals Site
Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.
TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108
Dates: September 8 through December 6, 2022

Photograph No. 9

Date: 9/23/2022

Direction: West

Description: ERRS crew abandoning monitoring well 12 (MW-12) in grid A3.



Photograph No. 10

Date: 9/26/2022

Direction: South

Description: ERRS crew beginning excavation of non-hazardous waste in grids A2 and A3.





Photographic Documentation

Client: US Environmental Protection Agency

Site Name: Chudnow Metals Site

Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.

TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108

Dates: September 8 through December 6, 2022

Photograph No. 11

Date: 9/26/2022

Direction: Southeast

Description: Stockpile of non-hazardous waste covered at the end of the workday.



Photograph No. 12

Date: 9/27/2022

Direction: South

Description: ERRS crew using water for dust suppression during excavation in grid G4.





Photographic Documentation

Client: US Environmental Protection Agency

Site Name: Chudnow Metals Site

Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.

TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108

Dates: September 8 through December 6, 2022

Photograph No. 13

Date: 9/28/2022

Direction: East

Description: Graded former berm.



Photograph No. 14

Date: 9/29/2022

Direction: South

Description: Truck on-site to take stockpiled waste to non-hazardous landfill.





Photographic Documentation

Client: US Environmental Protection Agency

Site Name: Chudnow Metals Site

Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.

TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108

Dates: September 8 through December 6, 2022

Photograph No. 15

Date: 10/3/2022

Direction: North

Description: Extent of excavation on the east property line in cells F1 through F3 and G1 through G3.



Photograph No. 16

Date: 10/5/2022

Direction: Southeast

Description: Toxic Substances Control Act (TSCA) waste being stockpiled on vinyl poly-cover in cells G2 through G4 on the east property line.





Photographic Documentation

Client: US Environmental Protection Agency

Site Name: Chudnow Metals Site

Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.

TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108

Dates: September 8 through December 6, 2022

Photograph No. 17

Date: 10/14/2022

Direction: Southwest

Description: Test pits in cell D4 for EPA Superfund Technical Assessment and Response Team (START) to collect confirmation samples from 629 to 627 feet above mean sea level (amsl).



Photograph No. 18

Date: 10/18/2022

Direction: West

Description: Western portion of the Site graded to 629 feet amsl.





Photographic Documentation

Client: US Environmental Protection Agency

Site Name: Chudnow Metals Site

Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.

TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108

Dates: September 8 through December 6, 2022

Photograph No. 19

Date: 10/20/2022

Direction: Overview

Description: Sampling pile provided by Lannon Stone Producers for START to collect backfill samples.



Photograph No. 20

Date: 10/21/2022

Direction: Southeast

Description: ERRS crew treating TSCA waste with Free Flow 200 Heavy Metals Treatment.





Photographic Documentation

Client: US Environmental Protection Agency

Site Name: Chudnow Metals Site

Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.

TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108

Dates: September 8 through December 6, 2022

Photograph No. 21

Date: 10/27/2022

Direction: Southeast

Description: ERRS crew excavating grids E1 through E4 and F3 through F4 to 627 feet amsl for START to collect additional confirmation soil samples.



Photograph No. 22

Date: 11/10/2022

Direction: South

Description: Orange warning barrier being placed in grids A1, A2, B1, and B2 at 627 feet amsl.





Photographic Documentation

Client: US Environmental Protection Agency

Site Name: Chudnow Metals Site

Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.

TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108

Dates: September 8 through December 6, 2022

Photograph No. 23

Date: 11/14/2022

Direction: Southeast

Description: Bentomat® Cap being placed in cells G4, F4, and E4 at 627 feet amsl.



Photograph No. 24

Date: 11/14/2022

Direction: Southwest

Description: Orange warning barrier being placed over Bentomat® Cap in cells A3 and B3 at 627 feet amsl.





Photographic Documentation

Client: US Environmental Protection Agency

Site Name: Chudnow Metals Site

Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.

TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108

Dates: September 8 through December 6, 2022

Photograph No. 25

Date: 11/14/2022

Direction: South

Description: Backfill sand covering orange warning barrier in the southern portion of the property.



Photograph No. 26

Date: 11/21/2022

Direction: Southeast

Description: Heritage Environmental truck on-site to transport TSCA waste to the hazardous waste landfill.





Photographic Documentation

Client: US Environmental Protection Agency

Site Name: Chudnow Metals Site

Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.

TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108

Dates: September 8 through December 6, 2022

Photograph No. 27

Date: 11/30/022

Direction: East

Description: Bentomat® Cap and orange warning barrier being placed in grids C1, D1, E1, C2, D2, and E2 at 627 feet amsl where the former TSCA stockpile was located.



Photograph No. 28

Date: 12/01/2022

Direction: Southeast

Description: ERRS crew spreading mulch along the eastern property line at 629 feet amsl where no AstroTurf will be installed.





Photographic Documentation

Client: US Environmental Protection Agency

Site Name: Chudnow Metals Site

Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.

TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108

Dates: September 8 through December 6, 2022

Photograph No. 29

Date: 12/05/2022

Direction: Northwest

Description: Earth Solutions Inc. re-installing monitoring well 13 (MW-13) in grid G4.



Photograph No. 30

Date: 12/06/2022

Direction: West

Description: Final condition of the Site, with clean backfill sand and mulch at 629 feet amsl.





Photographic Documentation

Client: US Environmental Protection Agency

Site Name: Chudnow Metals Site

Location: Milwaukee, Milwaukee County, Wisconsin

Prepared by: Tetra Tech, Inc.

TO-TOLIN: F0032-0001CJ106 and F0032-0001DH108

Dates: September 8 through December 6, 2022

Photograph No. 31

Date: 12/06/2022

Direction: Northeast

Description: Final condition of the Site, with clean backfill sand and mulch at 629 feet amsl. The re-installed monitoring well 12 in grid B3 and Astroturf Stockpile are next to the building.



APPENDIX D
AIR MONITORING SUMMARY TABLE

Appendix D
Air Monitoring Summary Table
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Location	Run Date	Duration (days:hours:minutes)	PM 2.5 8-Hr TWA	PM 2.5 STEL (Max)	PM 2.5 Daily Max (Instantaneous)	PM 10 8-Hr TWA	PM 10 STEL (Max)	PM 10 Daily Max (Instantaneous)	Units
Entrance	9/19/2022	00:05:48	NA	0.026	0.054	NA	0.028	0.054	mg/m3
Downwind	9/19/2022	00:05:55	NA	0.028	0.090	NA	0.130	0.711	mg/m3
Entrance	9/21/2022	00:09:14	0.019	0.033	0.046	0.019	0.034	0.047	mg/m3
Downwind	9/21/2022	00:09:17	0.017	0.031	0.059	0.031	0.067	0.369	mg/m3
Entrance	9/22/2022	00:01:10	NA	0.002	0.006	NA	0.005	0.014	mg/m3
Downwind	9/22/2022	00:09:23	0.002	0.007	0.055	0.004	0.020	0.167	mg/m3
Entrance	9/23/2022	00:07:14	NA	0.020	0.027	NA	0.025	0.032	mg/m3
Downwind	9/23/2022	00:07:26	NA	0.020	0.059	NA	0.026	0.134	mg/m3
Entrance	9/26/2022	00:09:30	0.006	0.016	0.058	0.008	0.020	0.091	mg/m3
Downwind	9/26/2022	00:09:17	0.010	0.013	0.021	0.013	0.019	0.037	mg/m3
Upwind	9/26/2022	00:08:00	NA	0.015	0.024	NA	0.016	0.037	mg/m3
Entrance	9/27/2022	00:09:17	0.003	0.019	0.132	0.004	0.021	0.133	mg/m3
Downwind	9/27/2022	00:09:00	0.004	0.008	0.046	0.006	0.015	0.136	mg/m3
Upwind	9/27/2022	00:08:50	0.003	0.019	0.047	0.003	0.021	0.048	mg/m3
Entrance	9/28/2022	00:04:34	NA	0.011	0.091	NA	0.025	0.23	mg/m3
Downwind	9/28/2022	00:09:21	0.003	0.012	0.065	0.005	0.020	0.108	mg/m3
Upwind	9/28/2022	00:09:09	0.006	0.009	0.046	0.007	0.013	0.058	mg/m3
Entrance	9/29/2022	00:09:26	0.008	0.039	0.011	0.009	0.039	0.015	mg/m3
Downwind	9/29/2022	00:09:23	0.010	0.030	0.097	0.016	0.047	0.19	mg/m3
Upwind	9/29/2022	00:09:24	0.008	0.016	0.066	0.009	0.025	0.136	mg/m3
Entrance	9/30/2022	00:08:00	0.000	0.108	0.554	0.000	0.110	0.556	mg/m3
Downwind	9/30/2022	00:07:47	NA	0.035	0.112	NA	0.073	0.361	mg/m3
Upwind	9/30/2022	00:07:55	NA	0.176	1.200	NA	0.176	1.2	mg/m3
Entrance	10/3/2022	00:09:34	0.006	0.021	0.030	0.007	0.022	0.032	mg/m3
Downwind	10/3/2022	00:09:32	0.007	0.016	0.145	0.012	0.023	0.209	mg/m3
Upwind	10/3/2022	00:09:19	0.014	0.021	0.059	0.015	0.024	0.06	mg/m3
Entrance	10/4/2022	00:09:40	0.013	0.028	0.039	0.015	0.030	0.044	mg/m3
Downwind	10/4/2022	00:09:27	0.011	0.028	0.162	0.018	0.059	0.467	mg/m3
Upwind	10/4/2022	00:09:32	0.010	0.035	0.092	0.012	0.037	0.093	mg/m3
Entrance	10/5/2022	00:09:48	0.014	0.032	0.042	0.017	0.033	0.053	mg/m3
Downwind	10/5/2022	00:09:49	0.016	0.033	0.182	0.029	0.093	0.626	mg/m3
Upwind	10/5/2022	00:09:35	0.009	0.029	0.109	0.010	0.030	0.145	mg/m3
Entrance	10/6/2022	00:09:37	0.020	0.032	0.047	0.021	0.033	0.049	mg/m3
Downwind	10/6/2022	00:09:28	0.018	0.028	0.040	0.022	0.033	0.074	mg/m3
Upwind	10/6/2022	00:09:24	0.014	0.022	0.052	0.015	0.022	0.052	mg/m3
Entrance	10/7/2022	00:08:12	0.004	0.008	0.016	0.005	0.008	0.016	mg/m3

Appendix D
Air Monitoring Summary Table
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Location	Run Date	Duration (days:hours:minutes)	PM 2.5 8-Hr TWA	PM 2.5 STEL (Max)	PM 2.5 Daily Max (Instantaneous)	PM 10 8-Hr TWA	PM 10 STEL (Max)	PM 10 Daily Max (Instantaneous)	Units
Downwind	10/7/2022	00:08:12	0.003	0.004	0.009	0.004	0.008	0.024	mg/m3
Upwind	10/7/2022	00:08:11	0.004	0.051	0.768	0.005	0.059	0.878	mg/m3
Entrance	10/11/2022	00:08:22	0.034	0.050	0.064	0.047	0.308	2.55	mg/m3
Downwind	10/11/2022	00:08:16	0.031	0.042	0.085	0.039	0.054	0.192	mg/m3
Upwind	10/11/2022	00:08:16	0.024	0.030	0.040	0.026	0.038	0.058	mg/m3
Entrance	10/14/2022	00:05:45	NA	0.015	0.013	NA	0.019	0.018	mg/m3
Downwind	10/14/2022	00:06:00	NA	0.017	0.037	NA	0.029	0.074	mg/m3
Upwind	10/14/2022	00:06:00	NA	0.014	0.034	NA	0.016	0.054	mg/m3
Entrance	10/17/2022	00:03:42	NA	0.012	0.023	NA	0.014	0.042	mg/m3
Downwind	10/17/2022	00:03:43	NA	0.010	0.049	NA	0.013	0.053	mg/m3
Upwind	10/17/2022	00:03:44	NA	0.010	0.099	NA	0.018	0.189	mg/m3
Entrance	10/18/2022	00:09:58	0.011	0.015	0.027	0.013	0.021	0.047	mg/m3
Downwind	10/18/2022	00:09:54	0.012	0.036	0.178	0.023	0.096	0.532	mg/m3
Upwind	10/18/2022	00:09:47	0.009	0.015	0.089	0.010	0.020	0.129	mg/m3
Entrance	10/19/2022	00:09:18	0.014	0.022	0.030	0.015	0.023	0.03	mg/m3
Downwind	10/19/2022	00:09:16	0.007	0.025	0.108	0.015	0.080	0.37	mg/m3
Upwind	10/19/2022	00:09:08	0.011	0.015	0.048	0.012	0.016	0.062	mg/m3
Entrance	10/20/2022	00:09:22	0.017	0.029	0.042	0.021	0.034	0.047	mg/m3
Downwind	10/20/2022	00:08:53	0.022	0.041	0.110	0.048	0.109	0.326	mg/m3
Upwind	10/20/2022	00:09:35	0.013	0.020	0.072	0.016	0.034	0.173	mg/m3
Entrance	10/21/2022	00:08:54	0.027	0.055	0.177	0.034	0.074	0.207	mg/m3
Downwind	10/21/2022	00:08:51	0.040	0.069	0.352	0.079	0.165	1.08	mg/m3
Upwind	10/21/2022	00:09:02	0.017	0.022	0.053	0.021	0.028	0.101	mg/m3
Entrance	10/24/2022	00:08:24	0.023	0.037	0.116	0.028	0.059	0.234	mg/m3
Downwind	10/24/2022	00:08:24	0.024	0.038	0.121	0.035	0.081	0.318	mg/m3
Upwind	10/24/2022	00:08:22	0.016	0.029	0.099	0.017	0.042	0.1	mg/m3
Entrance	10/26/2022	00:09:46	0.010	0.017	0.040	0.010	0.017	0.041	mg/m3
Downwind	10/26/2022	00:09:55	0.009	0.012	0.021	0.010	0.014	0.032	mg/m3
Upwind	10/26/2022	00:09:56	0.010	0.014	0.042	0.010	0.015	0.042	mg/m3
Entrance	10/27/2022	00:09:02	0.015	0.041	0.060	0.015	0.042	0.061	mg/m3
Downwind	10/27/2022	00:08:58	0.015	0.025	0.031	0.018	0.029	0.042	mg/m3
Upwind	10/27/2022	00:09:13	0.016	0.046	0.077	0.019	0.050	0.128	mg/m3
Entrance	10/28/2022	00:08:52	0.014	0.046	0.291	0.016	0.047	0.292	mg/m3
Downwind	10/28/2022	00:08:47	0.016	0.028	0.051	0.019	0.043	0.111	mg/m3
Upwind	10/28/2022	00:08:40	0.009	0.021	0.026	0.010	0.027	0.037	mg/m3
Entrance	10/31/2022	00:09:00	0.044	0.085	0.124	0.045	0.086	0.124	mg/m3

Appendix D
Air Monitoring Summary Table
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Location	Run Date	Duration (days:hours:minutes)	PM 2.5 8-Hr TWA	PM 2.5 STEL (Max)	PM 2.5 Daily Max (Instantaneous)	PM 10 8-Hr TWA	PM 10 STEL (Max)	PM 10 Daily Max (Instantaneous)	Units
Downwind	10/31/2022	00:08:51	0.050	0.096	0.172	0.057	0.120	0.265	mg/m3
Upwind	10/31/2022	00:09:03	0.035	0.080	0.203	0.036	0.080	0.283	mg/m3
Entrance	11/1/2022	00:09:00	0.023	0.048	0.054	0.026	0.050	0.056	mg/m3
Downwind	11/1/2022	00:09:13	0.030	0.051	0.115	0.042	0.060	0.134	mg/m3
Upwind	11/1/2022	00:09:05	0.020	0.047	0.070	0.022	0.048	0.082	mg/m3
Entrance	11/2/2022	00:08:50	0.029	0.059	0.063	0.031	0.061	0.065	mg/m3
Downwind	11/2/2022	00:08:51	0.034	0.059	0.071	0.041	0.072	0.098	mg/m3
Upwind	11/2/2022	00:08:52	0.024	0.051	0.058	0.025	0.052	0.059	mg/m3
Entrance	11/3/2022	00:09:10	0.028	0.050	0.055	0.030	0.052	0.074	mg/m3
Downwind	11/3/2022	00:09:07	0.027	0.048	0.061	0.031	0.051	0.18	mg/m3
Upwind	11/3/2022	00:09:12	0.021	0.042	0.047	0.022	0.043	0.047	mg/m3
Entrance	11/4/2022	00:03:24	NA	0.031	0.049	NA	0.032	0.051	mg/m3
Downwind	11/4/2022	00:03:20	NA	0.030	0.053	NA	0.039	0.092	mg/m3
Upwind	11/4/2022	00:03:30	NA	0.026	0.049	NA	0.028	0.064	mg/m3
Entrance	11/7/2022	00:08:06	0.011	0.030	0.042	0.012	0.032	0.044	mg/m3
Downwind	11/7/2022	00:07:45	NA	0.020	0.039	NA	0.027	0.079	mg/m3
Upwind	11/7/2022	00:08:02	0.000	0.020	0.028	0.000	0.021	0.045	mg/m3
Entrance	11/8/2022	00:08:30	0.011	0.015	0.022	0.011	0.017	0.041	mg/m3
Downwind	11/8/2022	00:08:22	0.012	0.024	0.147	0.019	0.055	0.432	mg/m3
Upwind	11/8/2022	00:08:19	0.011	0.014	0.024	0.011	0.014	0.036	mg/m3
Entrance	11/9/2022	00:07:52	NA	0.023	0.032	NA	0.025	0.034	mg/m3
Downwind	11/9/2022	00:08:01	0.000	0.028	0.061	0.000	0.051	0.144	mg/m3
Upwind	11/9/2022	00:07:42	NA	0.031	0.163	NA	0.037	0.169	mg/m3
Entrance	11/10/2022	00:08:06	0.025	0.037	0.041	0.027	0.039	0.047	mg/m3
Downwind	11/10/2022	00:08:25	0.031	0.041	0.133	0.039	0.081	0.38	mg/m3
Upwind	11/10/2022	00:08:09	0.019	0.028	0.046	0.020	0.029	0.062	mg/m3
Entrance	11/14/2022	00:09:34	0.013	0.032	0.083	0.014	0.033	0.084	mg/m3
Downwind	11/14/2022	00:09:27	0.014	0.023	0.042	0.017	0.028	0.064	mg/m3
Upwind	11/14/2022	00:09:27	0.010	0.022	0.043	0.010	0.025	0.057	mg/m3
Entrance	11/16/2022	00:09:28	0.019	0.023	0.035	0.019	0.023	0.036	mg/m3
Downwind	11/16/2022	00:08:43	0.018	0.049	0.139	0.026	0.094	0.307	mg/m3
Upwind	11/16/2022	00:09:50	0.015	0.025	0.046	0.015	0.027	0.047	mg/m3
Entrance	11/17/2022	00:02:52	NA	0.034	0.040	NA	0.035	0.041	mg/m3
Downwind	11/17/2022	00:02:45	NA	0.028	0.039	NA	0.036	0.072	mg/m3
Upwind	11/17/2022	00:02:34	NA	0.024	0.036	NA	0.024	0.053	mg/m3
Entrance	11/18/2022	00:09:11	0.028	0.170	0.082	0.030	0.200	0.127	mg/m3

Appendix D
Air Monitoring Summary Table
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Location	Run Date	Duration (days:hours:minutes)	PM 2.5 8-Hr TWA	PM 2.5 STEL (Max)	PM 2.5 Daily Max (Instantaneous)	PM 10 8-Hr TWA	PM 10 STEL (Max)	PM 10 Daily Max (Instantaneous)	Units
Downwind	11/18/2022	00:08:15	0.015	0.042	0.277	0.021	0.066	0.415	mg/m3
Upwind	11/18/2022	00:08:19	0.015	0.036	0.315	0.016	0.050	0.503	mg/m3
Entrance	11/21/2022	00:07:38	NA	0.024	0.029	NA	0.029	0.043	mg/m3
Downwind	11/21/2022	00:07:27	NA	0.034	0.053	NA	0.055	0.09	mg/m3
Upwind	11/21/2022	00:07:26	NA	0.020	0.032	NA	0.022	0.043	mg/m3
Entrance	11/23/2022	00:01:38	NA	0.055	0.057	NA	0.056	0.058	mg/m3
Downwind	11/23/2022	00:01:32	NA	0.052	0.060	NA	0.058	0.093	mg/m3
Upwind	11/23/2022	00:01:41	NA	0.043	0.053	NA	0.043	0.065	mg/m3
Entrance	11/28/2022	00:04:46	NA	0.019	0.029	NA	0.019	0.03	mg/m3
Downwind	11/28/2022	00:04:42	NA	0.018	0.056	NA	0.030	0.123	mg/m3
Upwind	11/28/2022	00:04:29	NA	0.010	0.032	NA	0.011	0.045	mg/m3
Entrance	11/29/2022	00:07:29	NA	0.066	0.068	NA	0.067	0.069	mg/m3
Downwind	11/29/2022	00:07:24	NA	0.075	0.082	NA	0.077	0.085	mg/m3
Upwind	11/29/2022	00:07:39	NA	0.046	0.122	NA	0.050	0.184	mg/m3
Entrance	11/30/2022	00:03:18	NA	0.026	0.041	NA	0.030	0.054	mg/m3
Downwind	11/30/2022	00:03:58	NA	0.064	0.459	NA	0.092	0.592	mg/m3
Upwind	11/30/2022	00:03:19	NA	0.014	0.015	NA	0.014	0.016	mg/m3

Notes:

mg/m3	Milligrams per cubic meter
NA	Not applicable
PM	Particulate matter
STEL	Short-term exposure limit
TWA	Time-weighted average

APPENDIX E
ANALYTICAL SUMMARY TABLE

Appendix E, Table 1
Investigative Soil Sample Summary
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	TSCA Regulatory Limit	CM-SBA2-631-630-220921	CM-SBA2-630-629-220921	CM-SBC2-631.5-631-220921	CM-SBC2-631-630-220921	CM-SBC2-630-629-220921	CM-SBC3-633-632-220921	CM-SBC3-632-631-220921
			Grid Cell: A2	Grid Cell: A2	Grid Cell: C2	Grid Cell: C2	Grid Cell: C2	Grid Cell: C3	Grid Cell: C3
			631-630 ft amsl	630-629 ft amsl	631.5-631 ft amsl	631-630 ft amsl	630-629 ft amsl	633-632 ft amsl	632-631 ft amsl
Aroclor 1016	12674-11-2	NE	0.09 U	0.098 U	0.093 U	0.1 U	0.099 U	0.097 U	0.097 U
Aroclor 1221	11104-28-2	NE	0.09 U	0.098 U	0.093 U	0.1 U	0.099 U	0.097 U	0.097 U
Aroclor 1232	11141-16-5	NE	0.09 U	0.098 U	0.093 U	0.1 U	0.099 U	0.097 U	0.097 U
Aroclor 1242	53469-21-9	NE	0.09 U	0.098 U	0.093 U	0.1 U	0.099 U	0.097 U	0.097 U
Aroclor 1248	12672-29-6	NE	0.09 U	0.098 U	0.093 U	0.1 U	0.099 U	0.097 U	0.097 U
Aroclor 1254	11097-69-1	NE	1.8	11	3.3	10	9.6	7	17
Aroclor 1260	11096-82-5	NE	0.09 U	0.098 U	0.093 U	0.1 U	0.099 U	0.097 U	0.097 U
Aroclor 1262	37324-23-5	NE	0.09 U	0.098 U	0.093 U	0.1 U	0.099 U	0.097 U	0.097 U
Aroclor 1268	11100-14-4	NE	0.09 U	0.098 U	0.093 U	0.1 U	0.099 U	0.097 U	0.097 U
PCBs, Total	PCBs, Total	50	1.8	11	3.3	10	9.6	7	17
Analyte	CAS No.	TSCA Regulatory Limit	CM-SB-DUP02-220921	CM-SBC3-631-630-220921	CM-SBC3-630-629-220921	CM-SBD1-632-631-220921	CM-SBD1-631-630-220921	CM-SB-DUP01-220921	CM-SBD1-630-629-220921
			Grid Cell: C3	Grid Cell: C3	Grid Cell: C3	Grid Cell: D1	Grid Cell: D1	Grid Cell: D1	Grid Cell: D1
			632-631 ft amsl	631-630 ft amsl	630-629 ft amsl	632-631 ft amsl	631-630 ft amsl	631-630 ft amsl	630-629 ft amsl
Aroclor 1016	12674-11-2	NE	0.1 U	0.099 U	0.098 U	0.086 U	0.1 U	0.098 U	0.1 U
Aroclor 1221	11104-28-2	NE	0.1 U	0.099 U	0.098 U	0.086 U	0.1 U	0.098 U	0.1 U
Aroclor 1232	11141-16-5	NE	0.1 U	0.099 U	0.098 U	0.086 U	0.1 U	0.098 U	0.1 U
Aroclor 1242	53469-21-9	NE	0.1 U	0.099 U	0.098 U	0.086 U	0.1 U	0.098 U	0.1 U
Aroclor 1248	12672-29-6	NE	0.1 U	0.099 U	0.098 U	0.086 U	0.1 U	0.098 U	0.1 U
Aroclor 1254	11097-69-1	NE	17	26	17	2.7	11	18	17
Aroclor 1260	11096-82-5	NE	0.1 U	0.099 U	0.098 U	0.086 U	0.1 U	0.098 U	0.1 U
Aroclor 1262	37324-23-5	NE	0.1 U	0.099 U	0.098 U	0.086 U	0.1 U	0.098 U	0.1 U
Aroclor 1268	11100-14-4	NE	0.1 U	0.099 U	0.098 U	0.086 U	0.1 U	0.098 U	0.1 U
PCBs, Total	PCBs, Total	50	17	26	17	2.7	11	18	17

Notes: See last page.

Appendix E, Table 1
Investigative Soil Sample Summary
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Notes:

All results and screening levels are presented in units milligrams per kilogram (mg/kg)

Bolded results indicate that the analyte was detected at concentrations exceeding the method detection limit.

amsl - Above mean sea level

CAS No. - Chemical Abstracts Service Number

ft - Feet

NE - Not established

PCB - Polychlorinated biphenyls

TSCA - Toxic Substances Control Act

Qualifiers

U - Analyzed but not detected above the method detection limit.

Appendix E, Table 2
Waste Characterization and Treatability Study Soil Sample Summary
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analytical Report Number	Sample ID	Waste Type	Sample Location	Analyses
172047	CM-WC-SD-E3-220908	Subtitle D	E3	TCLP and Total VOC, TCLP and Total SVOC, TCLP and Total Metals, PCBs, Cyanide, Sulfide, pH, Paint Filter, DRO, GRO
172490	CM-WC-SC-G1-220926	Subtitle C	G1	TCLP and Total VOC, TCLP and Total SVOC, TCLP and Total Metals, PCBs, Cyanide, Sulfide, pH, Paint Filter, DRO, GRO
172899	CM-WC-SC-G1-221012	Subtitle C	G1	Pesticides, Herbicides, Paint Filter, Reactive Cyanide, Reactive Sulfide, Flashpoint
172899	CM-WC-SC-F3-221012	Subtitle C	F3	TCLP and Total VOC, TCLP and Total SVOC, TCLP and Total Metals, PCBs, pH, Paint Filter, Pesticide, Herbicide, Reactive Cyanide, Reactive Sulfide, Flash Point
172899	CM-WC-SC-ST-221012	Subtitle C	Stockpile	TCLP and Total VOC, TCLP and Total SVOC, TCLP and Total Metals, PCBs, pH, Paint Filter, Pesticide, Herbicide, Reactive Cyanide, Reactive Sulfide, Flash Point
173144	CM-WC-SC-TG1-221021	TREATED - Subtitle C	G1	TCLP Lead, Paint Filter
173144	CM-WC-SC-TF3-221021	TREATED - Subtitle C	F3	TCLP Lead, Paint Filter
173144	CM-WC-SC-TST-221020	TREATED - Subtitle C	Stockpile	TCLP Lead, Paint Filter
173328	CM-WC-SC-TG1-221021	TREATED - Subtitle C	G1	Remaining TCLP RCRA Metals - arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver
173328	CM-WC-SC-TF3-221021	TREATED - Subtitle C	F3	Remaining TCLP RCRA Metals - arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver
173328	CM-WC-SC-TST-221020	TREATED - Subtitle C	Stockpile	Remaining TCLP RCRA Metals - arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver
173419	CM-WC-SC-TG1-221102	TREATED - Subtitle C	G1	TCLP RCRA Metals, Paint Filter
173419	CM-WC-SC-TF3-221102	TREATED - Subtitle C	F3	TCLP RCRA Metals, Paint Filter
173419	CM-WC-SC-TST-221102	TREATED - Subtitle C	Stockpile	TCLP RCRA Metals, Paint Filter

See notes on last page.

Appendix E, Table 2
Waste Characterization and Treatability Study Soil Sample Summary
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Notes:

DRO - Diesel-range organic

GRO - Gasoline-range organic

PCB - Polychlorinated biphenyl

RCRA - Resource Conservation and Recovery Act

SVOC - Semi-volatile organic compound

TCLP - Toxicity Characteristic Leaching Procedure

VOC - Volatile organic compound

Appendix E, Table 3
Initial Confirmation Soil Samples: 629 to 627 ft amsl
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Grid ID:	A1	A2	A3	A4	A2A3A4					
				Sample ID:	CM-CS-A1-629- 628-221018	CM-CS-A2-629- 628-221018	CM-CS-A3-629- 628-221018	CM-CS-A4-629- 628-221018	CM-CS-A2A3A4- 628-221107					
				Elevation:	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl	628 ft amsl					
Aroclor-1016	12674-11-2	NE	28		0.56 U	1.2 U	2.8 U	3 U	0.065 U					
Aroclor-1221	11104-28-2	NE	0.883		0.56 U	1.2 U	2.8 U	3 U	0.065 U					
Aroclor-1232	11141-16-5	NE	0.792		0.56 U	1.2 U	2.8 U	3 U	0.065 U					
Aroclor-1242	53469-21-9	NE	0.972		0.82	1.2 U	7.9	3.8	0.12					
Aroclor-1248	12672-29-6	NE	0.975		0.56 U	1.2 U	2.8 U	3 U	0.065 U					
Aroclor-1254	11097-69-1	NE	0.988		11	8.1	20	20	1.5					
Aroclor-1260	11096-82-5	NE	1		0.56 U	1.2 U	2.8 U	3 U	0.065 U					
Aroclor-1262	37324-23-5	NE	NE		0.56 U	1.2 U	2.8 U	3 U	0.065 U					
Aroclor-1268	11100-14-4	NE	NE		0.56 U	1.2 U	2.8 U	3 U	0.065 U					
Total PCBs*	1336-36-3	50	NE		12	8.1	28	24	1.62					
Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Sample ID:	CM-CS-A1-628- 627-221018	CM-CS-A2-628- 627-221018	CM-CS-A3-628- 627-221018	CM-CS-A4-628- 627-221018						
				Elevation:	628-627 ft amsl	628-627 ft amsl	628-627 ft amsl	628-627 ft amsl						
Aroclor-1016	12674-11-2	NE	28							0.61 U	1.1 U	1.1 U F1	1.2 U	
Aroclor-1221	11104-28-2	NE	0.883							0.61 U	1.1 U	1.1 U	1.2 U	
Aroclor-1232	11141-16-5	NE	0.792							0.61 U	1.1 U	1.1 U	1.2 U	
Aroclor-1242	53469-21-9	NE	0.972							0.72	1.5	3	5	
Aroclor-1248	12672-29-6	NE	0.975							0.61 U	1.1 U	1.1 U	1.2 U	
Aroclor-1254	11097-69-1	NE	0.988							8.3	7	8.1	19	
Aroclor-1260	11096-82-5	NE	1							0.61 U	1.1 U	1.1 U F1	1.2 U	
Aroclor-1262	37324-23-5	NE	NE							0.61 U	1.1 U	1.1 U	1.2 U	
Aroclor-1268	11100-14-4	NE	NE							0.61 U	1.1 U	1.1 U	1.2 U	
Total PCBs*	1336-36-3	50	NE							9	8.5	11	24	

See notes on last page.

Appendix E, Table 3
Initial Confirmation Soil Samples: 629 to 627 ft amsl
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Grid ID:	B1	B2	B3	B3	B4
				Sample ID:	CM-CS-B1-629-628-221018	CM-CS-B2-629-628-221018	CM-CS-B3-629-628-221018	CM-CS-DUP01-221018	CM-CS-B4-629-628-221017
				Elevation:	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl
Aroclor-1016	12674-11-2	NE	28		0.58 U	0.58 U	0.59 U	1.3 U	1.1 U
Aroclor-1221	11104-28-2	NE	0.883		0.58 U	0.58 U	0.59 U	1.3 U	1.1 U
Aroclor-1232	11141-16-5	NE	0.792		0.58 U	0.58 U	0.59 U	1.3 U	1.1 U
Aroclor-1242	53469-21-9	NE	0.972		0.95	2.1	4.9	9.6	9.7
Aroclor-1248	12672-29-6	NE	0.975		0.58 U	0.58 U	0.59 U	1.3 U	1.1 U
Aroclor-1254	11097-69-1	NE	0.988		7	4.1	13	17	20
Aroclor-1260	11096-82-5	NE	1		0.58 U	0.58 U	0.59 U	1.3 U	1.1 U
Aroclor-1262	37324-23-5	NE	NE		0.58 U	0.58 U	0.59 U	1.3 U	1.1 U
Aroclor-1268	11100-14-4	NE	NE		0.58 U	0.58 U	0.59 U	1.3 U	1.1 U
Total PCBs*	1336-36-3	50	NE		8	6.2	18	27	29.7
Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Sample ID:	CM-CS-B1-628-627-221018	CM-CS-B2-628-627-221018	CM-CS-B3-628-627-221018		CM-CS-B4-628-627-221017
				Elevation:	628-627 ft amsl	628-627 ft amsl	628-627 ft amsl		628-627 ft amsl
					0.58 U	5.8 U	1.1 U		1.2 U
Aroclor-1016	12674-11-2	NE	28		0.58 U	5.8 U	1.1 U		1.2 U
Aroclor-1221	11104-28-2	NE	0.883		0.58 U	5.8 U	1.1 U		1.2 U
Aroclor-1232	11141-16-5	NE	0.792		0.58 U	5.8 U	1.1 U		1.2 U
Aroclor-1242	53469-21-9	NE	0.972		2.8	54	7.4		4.8
Aroclor-1248	12672-29-6	NE	0.975		0.58 U	5.8 U	1.1 U		1.2 U
Aroclor-1254	11097-69-1	NE	0.988		5.5	21	18		18
Aroclor-1260	11096-82-5	NE	1		0.58 U	5.8 U	1.1 U		1.2 U
Aroclor-1262	37324-23-5	NE	NE		0.58 U	5.8 U	1.1 U		1.2 U
Aroclor-1268	11100-14-4	NE	NE		0.58 U	5.8 U	1.1 U		1.2 U
Total PCBs*	1336-36-3	50	NE		8.3	75	25		23

See notes on last page.

Appendix E, Table 3
Initial Confirmation Soil Samples: 629 to 627 ft amsl
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Grid ID:	C1	C2	C3	C4
				Sample ID:	CM-CS-C1-629-628-221019	CM-CS-C2-629-628-221019	CM-CS-C3-629-628-221017	CM-CS-C4-629-628-221017
				Elevation:	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl
Aroclor-1016	12674-11-2	NE	28		0.54 U	0.6 U	1.2 U	1.2 U
Aroclor-1221	11104-28-2	NE	0.883		0.54 U	0.6 U	1.2 U	1.2 U
Aroclor-1232	11141-16-5	NE	0.792		0.54 U	0.6 U	1.2 U	1.2 U
Aroclor-1242	53469-21-9	NE	0.972		3.1	4.5	8.7	7.1
Aroclor-1248	12672-29-6	NE	0.975		0.54 U	0.6 U	1.2 U	1.2 U
Aroclor-1254	11097-69-1	NE	0.988		6.5	9.4	18	25
Aroclor-1260	11096-82-5	NE	1		0.54 U	0.6 U	1.2 U	1.2 U
Aroclor-1262	37324-23-5	NE	NE		0.54 U	0.6 U	1.2 U	1.2 U
Aroclor-1268	11100-14-4	NE	NE		0.54 U	0.6 U	1.2 U	1.2 U
Total PCBs*	1336-36-3	50	NE		9.6	14	26.7	32.1
Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Sample ID:	CM-CS-C1-628-627-221019	CM-CS-C2-628-627-221019	CM-CS-C3-628-627-221017	CM-CS-C4-628-627-221017
				Elevation:	628-627 ft amsl	628-627 ft amsl	628-627 ft amsl	628-627 ft amsl
Aroclor-1016	12674-11-2	NE	28		0.31 U	1.3 U	1.2 U	130 U
Aroclor-1221	11104-28-2	NE	0.883		0.31 U	1.3 U	1.2 U	130 U
Aroclor-1232	11141-16-5	NE	0.792		0.31 U	1.3 U	1.2 U	130 U
Aroclor-1242	53469-21-9	NE	0.972		0.39	4.7	10	2900
Aroclor-1248	12672-29-6	NE	0.975		0.31 U	1.3 U	1.2 U	130 U
Aroclor-1254	11097-69-1	NE	0.988		2.4	13	20	130 U
Aroclor-1260	11096-82-5	NE	1		0.31 U	1.3 U	1.2 U	130 U
Aroclor-1262	37324-23-5	NE	NE		0.31 U	1.3 U	1.2 U	130 U
Aroclor-1268	11100-14-4	NE	NE		0.31 U	1.3 U	1.2 U	130 U
Total PCBs*	1336-36-3	50	NE		2.8	18	30	2900

See notes on last page.

Appendix E, Table 3
Initial Confirmation Soil Samples: 629 to 627 ft amsl
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Grid ID:	D1	D2	D3	D4
				Sample ID:	CM-CS-D1-629-628-221019	CM-CS-D2-629-628-221019	CM-CS-D3-629-628-221017	CM-CS-D4-629-628-221017
				Elevation:	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl
Aroclor-1016	12674-11-2	NE	28		3 U	1.2 U	1.2 U	1.3 U
Aroclor-1221	11104-28-2	NE	0.883		3 U	1.2 U	1.2 U	1.3 U
Aroclor-1232	11141-16-5	NE	0.792		3 U	1.2 U	1.2 U	1.3 U
Aroclor-1242	53469-21-9	NE	0.972		3.5	11	11	5.2
Aroclor-1248	12672-29-6	NE	0.975		3 U	1.2 U	1.2 U	1.3 U
Aroclor-1254	11097-69-1	NE	0.988		29	18	23	18
Aroclor-1260	11096-82-5	NE	1		3 U	1.2 U	1.2 U	1.3 U
Aroclor-1262	37324-23-5	NE	NE		3 U	1.2 U	1.2 U	1.3 U
Aroclor-1268	11100-14-4	NE	NE		3 U	1.2 U	1.2 U	1.3 U
Total PCBs*	1336-36-3	50	NE		33	29	34	23.2
Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Sample ID:	CM-CS-D1-628-627-221019	CM-CS-D2-628-627-221019	CM-CS-D3-628-627-221017	CM-CS-D4-628-627-221017
				Elevation:	628-627 ft amsl	628-627 ft amsl	628-627 ft amsl	628-627 ft amsl
Aroclor-1016	12674-11-2	NE	28		0.58 U	1.2 U	0.62 U	1.2 U
Aroclor-1221	11104-28-2	NE	0.883		0.58 U	1.2 U	0.62 U	1.2 U
Aroclor-1232	11141-16-5	NE	0.792		0.58 U	1.2 U	0.62 U	1.2 U
Aroclor-1242	53469-21-9	NE	0.972		0.7	7.7	10	8.1
Aroclor-1248	12672-29-6	NE	0.975		0.58 U	1.2 U	0.62 U	1.2 U
Aroclor-1254	11097-69-1	NE	0.988		4.9	12	14	18
Aroclor-1260	11096-82-5	NE	1		0.58 U	1.2 U	0.62 U	1.2 U
Aroclor-1262	37324-23-5	NE	NE		0.58 U	1.2 U	0.62 U	1.2 U
Aroclor-1268	11100-14-4	NE	NE		0.58 U	1.2 U	0.62 U	1.2 U
Total PCBs*	1336-36-3	50	NE		5.6	20	24	26.1

See notes on last page.

Appendix E, Table 3
Initial Confirmation Soil Samples: 629 to 627 ft amsl
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Grid ID:	E1	E2	E2	E3	E4			
				Sample ID:	CM-CS-E1-629- 628-221019	CM-CS-E2-629- 628-221019	CM-CS-DUP01- 221019	CM-CS-E3-629- 628-221017	CM-CS-E4-629- 628-221014			
				Elevation:	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl			
Aroclor-1016	12674-11-2	NE	28		1.2 U F1	1.1 U	1.2 U	1.2 U	1.2 U			
Aroclor-1221	11104-28-2	NE	0.883		1.2 U	1.1 U	1.2 U	1.2 U	1.2 U			
Aroclor-1232	11141-16-5	NE	0.792		1.2 U	1.1 U	1.2 U	1.2 U	1.2 U			
Aroclor-1242	53469-21-9	NE	0.972		1 J	5.8	5.8	11	8.4			
Aroclor-1248	12672-29-6	NE	0.975		1.2 U	1.1 U	1.2 U	1.2 U	1.2 U			
Aroclor-1254	11097-69-1	NE	0.988		5.8	9.3	9.8	24	22			
Aroclor-1260	11096-82-5	NE	1		1.2 U F1	1.1 U	1.2 U	1.2 U	1.2 U			
Aroclor-1262	37324-23-5	NE	NE		1.2 U	1.1 U	1.2 U	1.2 U	1.2 U			
Aroclor-1268	11100-14-4	NE	NE		1.2 U	1.1 U	24	1.2 U	1.2 U			
Total PCBs*	1336-36-3	50	NE		6.8	15	40	35	30.4			
Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Sample ID:	CM-CS-E1-628- 627-221019	CM-CS-E2-628- 627-221019		CM-CS-E3-628- 627-221017	CM-CS-E4-628- 627-221014			
				Elevation:	628-627 ft amsl	628-627 ft amsl		628-627 ft amsl	628-627 ft amsl			
Aroclor-1016	12674-11-2	NE	28					0.31 U	0.34 U	3.1 U	3.2 U	
Aroclor-1221	11104-28-2	NE	0.883					0.31 U	0.34 U	3.1 U	3.2 U	
Aroclor-1232	11141-16-5	NE	0.792					0.31 U	0.34 U	3.1 U	3.2 U	
Aroclor-1242	53469-21-9	NE	0.972					0.47	0.98	13	8.6	
Aroclor-1248	12672-29-6	NE	0.975					0.31 U	0.34 U	3.1 U	3.2 U	
Aroclor-1254	11097-69-1	NE	0.988					1.2	1.6	27	21	
Aroclor-1260	11096-82-5	NE	1					0.31 U	0.34 U	3.1 U	3.2 U	
Aroclor-1262	37324-23-5	NE	NE					0.31 U	0.34 U	3.1 U	3.2 U	
Aroclor-1268	11100-14-4	NE	NE	0.31 U	0.34 U	3.1 U	3.2 U					
Total PCBs*	1336-36-3	50	NE	1.7	2.6	40	29.6					

See notes on last page.

Appendix E, Table 3
Initial Confirmation Soil Samples: 629 to 627 ft amsl
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Grid ID:	F1	F1	F2	F3	F4					
				Sample ID:	CM-CS-F1-629- 628-221019	CM-CS-DUP02- 221019	CM-CS-F2-629- 628-221021	CM-CS-F3-629- 628-221020	CM-CS-F4-629- 628-221014					
				Elevation:	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl					
Aroclor-1016	12674-11-2	NE	28		0.57 U	0.06 U	1.2 U	6.5 U	3 U					
Aroclor-1221	11104-28-2	NE	0.883		0.57 U	0.06 U	1.2 U	6.5 U	3 U					
Aroclor-1232	11141-16-5	NE	0.792		0.57 U	0.06 U	1.2 U	6.5 U	3 U					
Aroclor-1242	53469-21-9	NE	0.972		1.4	0.06 U	6.5	8.4	10					
Aroclor-1248	12672-29-6	NE	0.975		0.57 U	0.6	1.2 U	6.5 U	3 U					
Aroclor-1254	11097-69-1	NE	0.988		3.2	0.06 U	9.9	17	26					
Aroclor-1260	11096-82-5	NE	1		0.57 U	0.69	1.2 U	6.5 U	3 U					
Aroclor-1262	37324-23-5	NE	NE		0.57 U	0.06 U	1.2 U	6.5 U	3 U					
Aroclor-1268	11100-14-4	NE	NE		0.57 U	0.06 U	1.2 U	6.5 U	3 U					
Total PCBs*	1336-36-3	50	NE		4.6	1.3	16	25	36					
Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Sample ID:	CM-CS-F1-628- 627-221019		CM-CS-F2-628- 627-221021	CM-CS-F3-628- 627-221020	CM-CS-F4-628- 627-221014					
				Elevation:	628-627 ft amsl		628-627 ft amsl	628-627 ft amsl	628-627 ft amsl					
Aroclor-1016	12674-11-2	NE	28							0.27 U	0.63 U	6.4 U	3.1 U	
Aroclor-1221	11104-28-2	NE	0.883							0.27 U	0.63 U	6.4 U	3.1 U	
Aroclor-1232	11141-16-5	NE	0.792							0.27 U	0.63 U	6.4 U	3.1 U	
Aroclor-1242	53469-21-9	NE	0.972							0.27 U	1.5	6.6	11	
Aroclor-1248	12672-29-6	NE	0.975							0.27 U	0.63 U	6.4 U	3.1 U	
Aroclor-1254	11097-69-1	NE	0.988							0.27 U	2.1	17	23	
Aroclor-1260	11096-82-5	NE	1							0.43	0.63 U	6.4 U	3.1 U	
Aroclor-1262	37324-23-5	NE	NE							0.27 U	0.63 U	6.4 U	3.1 U	
Aroclor-1268	11100-14-4	NE	NE							0.27 U	0.63 U	6.4 U	3.1 U	
Total PCBs*	1336-36-3	50	NE		0.43		3.6	24	34					

See notes on last page.

Appendix E, Table 3
Initial Confirmation Soil Samples: 629 to 627 ft amsl
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Grid ID:	G1	G2	G3	G4	G4
				Sample ID:	CM-CS-G1-629-- 629-221020	CM-CS-G2-629- 628-221024	CM-CS-G3-629- 628-221024	CM-CS-G4-629- 628--221024	CM-CS-DUP01- 221024
				Elevation:	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl	629 - 628 ft amsl
Aroclor-1016	12674-11-2	NE	28		2.8 U	1.1 U	60 U	2.9 U	0.64 U
Aroclor-1221	11104-28-2	NE	0.883		2.8 U	1.1 U	60 U	2.9 U	0.64 U
Aroclor-1232	11141-16-5	NE	0.792		2.8 U	1.1 U	60 U	2.9 U	0.64 U
Aroclor-1242	53469-21-9	NE	0.972		3.4	3.8	60 U	9.1	3.1
Aroclor-1248	12672-29-6	NE	0.975		2.8 U	1.1 U	250	2.9 U	0.64 U
Aroclor-1254	11097-69-1	NE	0.988		3.6	8.5	60 U	18	5.8
Aroclor-1260	11096-82-5	NE	1		2.8 U	1.1 U	60 U	2.9 U	0.64 U
Aroclor-1262	37324-23-5	NE	NE		2.8 U	1.1 U	60 U	2.9 U	0.64 U
Aroclor-1268	11100-14-4	NE	NE		2.8 U	1.1 U	60 U	2.9 U	0.64 U
Total PCBs*	1336-36-3	50	NE		7	12	250	27	8.9
Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Sample ID:	CM-CS-G1-628- 627-221020	CM-CS-G2-628- 627-221024	CM-CS-G3-628- 627-221024	CM-CS-G4-628- 627-221024	
				Elevation:	628-627 ft amsl	628-627 ft amsl	628-627 ft amsl	628-627 ft amsl	
Aroclor-1016	12674-11-2	NE	28		0.53 U	0.66 U	1.2 U	3 U	
Aroclor-1221	11104-28-2	NE	0.883		0.53 U	0.66 U	1.2 U	3 U	
Aroclor-1232	11141-16-5	NE	0.792		0.53 U	0.66 U	1.2 U	3 U	
Aroclor-1242	53469-21-9	NE	0.972		1.7	0.59 J	3.6	15	
Aroclor-1248	12672-29-6	NE	0.975		0.53 U	0.66 U	1.2 U	3 U	
Aroclor-1254	11097-69-1	NE	0.988		0.58	1.9	8.1	16	
Aroclor-1260	11096-82-5	NE	1		0.53 U	0.66 U	1.2 U	3 U	
Aroclor-1262	37324-23-5	NE	NE		0.53 U	0.66 U	1.2 U	3 U	
Aroclor-1268	11100-14-4	NE	NE		0.53 U	0.66 U	1.2 U	3 U	
Total PCBs*	1336-36-3	50	NE		2.3	2.5	12	31	

See notes on last page.

Appendix E, Table 3
Initial Confirmation Soil Samples: 629 to 627 ft amsl
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Grid ID:	H1
				Sample ID:	CM-CS-H1-630- 629-221014
				Elevation:	630 - 629 ft amsl
Aroclor-1016	12674-11-2	NE	28		0.77 U
Aroclor-1221	11104-28-2	NE	0.883		0.77 U
Aroclor-1232	11141-16-5	NE	0.792		0.77 U
Aroclor-1242	53469-21-9	NE	0.972		0.63 J
Aroclor-1248	12672-29-6	NE	0.975		0.77 U
Aroclor-1254	11097-69-1	NE	0.988		7.5
Aroclor-1260	11096-82-5	NE	1		0.77 U
Aroclor-1262	37324-23-5	NE	NE		0.77 U
Aroclor-1268	11100-14-4	NE	NE		0.77 U
Total PCBs*	1336-36-3	50	NE		8.1
Analyte	CAS No.	TSCA Regulatory Limit	WI DNR Industrial RCL	Sample ID:	
				Elevation:	
Aroclor-1016	12674-11-2	NE	28		
Aroclor-1221	11104-28-2	NE	0.883		
Aroclor-1232	11141-16-5	NE	0.792		
Aroclor-1242	53469-21-9	NE	0.972		
Aroclor-1248	12672-29-6	NE	0.975		
Aroclor-1254	11097-69-1	NE	0.988		
Aroclor-1260	11096-82-5	NE	1		
Aroclor-1262	37324-23-5	NE	NE		
Aroclor-1268	11100-14-4	NE	NE		
Total PCBs*	1336-36-3	50	NE		

See notes on last page.

Notes:

All screening levels and results are presented in units milligrams per kilogram (mg/kg).

*Total PCB result calculated using reported concentrations of detected aroclors.

Highlighted result exceeds the Wis. Admin. Code Chapter NR 720 cleanup standards for industrial properties.

Highlighted result exceeds the TSCA regulatory level of 50 mg/kg.

amsl - Above mean sea level

CAS No. - Chemical Abstracts Service Number

ft - Feet

MDL - Method detection limit

mg/kg - Milligram per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NE - Not established

PCB - Polychlorinated biphenyl

RCL - Residual contaminant level

RL - Reporting limit

TSCA - Toxic Substances Control Act

WI DNR - Wisconsin Department of Natural Resources

Wis Admin - Wisconsin Administrative

Qualifiers

F1 MS and/or MSD recover exceeds control limits.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U The analyte was not detected. The reported concentration is the RL.

Appendix E, Table 4
Confirmation Soil Samples: 627 ft amsl
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	WI DNR Industrial RCL	Grid ID:	A1	A2	A2	A3	A4	B1	B2
			Sample ID:	CM-CS-A1-627- 221102	CM-CS-A2-627- 221102	CM-CS-DUP01- 221102	CM-CS-A3-627- 221027	CM-CS-A4-627- 221025	CM-CS-B1-627- 221103	CM-CS-B2-627- 221103
			Elevation:	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl
Polychlorinated Biphenyls										
Aroclor-1016	12674-11-2	NE		0.039 UJ	0.041 U	0.041 U	0.037 U	0.035 U	0.038 U	0.038 U
Aroclor-1221	11104-28-2	NE		0.039 UJ	0.041 U	0.041 U	0.037 U	0.035 U	0.038 U	0.038 U
Aroclor-1232	11141-16-5	NE		0.025 U	0.041 U	0.041 U	0.037 U	0.035 U	0.038 U	0.038 U
Aroclor-1242	53469-21-9	0.972		0.016 U	0.041 U	0.041 U	20.8 J+	0.035 U	0.038 U	0.038 U
Aroclor-1248	12672-29-6	0.965		0.62	3.51 J+	6.85 J+	0.037 U	0.035 U	1.82	0.185
Aroclor-1254	11097-69-1	0.988		1.13	9.16 J+	15 J+	56.4 J+	0.035 U	2.8	0.222
Aroclor-1260	11096-82-5	1		0.258	1.47	1.77	0.037 U	0.035 U	0.038 U	0.038 U
Aroclor-1262	37324-23-5	NE		0.017 U	0.041 U	0.041 U	0.037 U	0.035 U	0.546 J+	0.0454
Aroclor-1268	11100-14-4	NE		0.026 U	0.041 U	0.041 U	0.037 U	0.035 U	0.038 U	0.038 U
Total PCBs*	1336-36-3	0.967		2.01	14.1 J+	23.6 J+	77.2 J+	0.035 U	5.17 J+	0.452
Metals										
Arsenic	7440-38-2	3		12	36	45	13	12	13	9.8
Barium	7440-39-3	NE		200	680	1100	630	300	350	170
Cadmium	7440-43-9	NE		11	25	26	13	12	6.7	5.8
Chromium	7440-47-3	1750000		71	120	190	110	68	39	38
Lead	7439-92-1	800		920	3200	2500	1500	2400	1000	1100
Mercury	7439-97-6	3.13		2.9	5.2	5.5	8.1	5.3	1.4	2.3
Selenium	7782-49-2	NE		7.1	7	12	1.2	3.2 U	3.7 U	3.1 U
Silver	7440-22-4	5840		0.96 J	2.6 J	2 J	1.4	1.6 J	1 J	0.73 J

See notes on last page.

Appendix E, Table 4
Confirmation Soil Samples: 627 ft amsl
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	WI DNR Industrial RCL	Grid ID:	B3	B4	C1	C2	C3	C3	C4
			Sample ID:	CM-CS-B3-627- 221027	CM-CS-B4-627- 221025	CM-CS-C1-627- 221101	CM-CS-C2-627- 221101	CM-CS-C3-627- 221031	CM-CS-DUP02- 221031	CM-CS-C4-627- 221031
			Elevation:	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl
Polychlorinated Biphenyls										
Aroclor-1016	12674-11-2	NE		0.036 U	0.039 U	0.04 U	0.04 U	0.038 U	0.19 U	0.039 U
Aroclor-1221	11104-28-2	NE		0.036 U	0.039 U	0.04 U	0.04 U	0.038 U	0.19 U	0.039 U
Aroclor-1232	11141-16-5	NE		0.036 U	0.039 U	0.04 U	0.04 U	0.038 U	0.19 U	0.039 U
Aroclor-1242	53469-21-9	0.972		20.6	0.039 U	0.04 U	0.04 U	11.5	16.8	4.04
Aroclor-1248	12672-29-6	0.965		0.036 U	0.039 U	1.14	3.43	0.038 U	0.19 U	0.039 U
Aroclor-1254	11097-69-1	0.988		9.94	0.039 U	1.87	4.09	12.8	17.3	7.28
Aroclor-1260	11096-82-5	1		2.03	0.039 U	0.04 U	0.04 U	1.71	2.4	1.35
Aroclor-1262	37324-23-5	NE		0.036 U	0.039 U	0.268	0.589	0.038 U	0.19 U	0.039 U
Aroclor-1268	11100-14-4	NE		0.036 U	0.039 U	0.04 U	0.04 U	0.038 U	0.19 U	0.039 U
Total PCBs*	1336-36-3	0.967		32.6	0.039 U	3.28	8.11	26	36.5	12.7
Metals										
Arsenic	7440-38-2	3		10	18	9.3	4	30	27	23
Barium	7440-39-3	NE		350	460	210	91	680	730	630
Cadmium	7440-43-9	NE		38	14	7.1	1	28	32	24
Chromium	7440-47-3	1750000		180	320	34	8.5	300	170	150
Lead	7439-92-1	800		1400	790	670	260	3500	3400	2000
Mercury	7439-97-6	3.13		3.7	8.4	1.7	3.6	14	17	10
Selenium	7782-49-2	NE		1.3	3.2 U	0.67	0.49	3.4 U	3 U	3.4 U
Silver	7440-22-4	5840		1.2	1.5 J	0.66	0.23 J	3 J	4.7	2.3 J

See notes on last page.

Appendix E, Table 4
Confirmation Soil Samples: 627 ft amsl
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	WI DNR Industrial RCL	Grid ID:	C4	D1	D2	D3	D4	E1	E2
			Sample ID:	CM-CS-DUP01- 221031	CM-CS-D1-627- 221028	CM-CS-D2-627- 221028	CM-CS-D3-627- 221027	CM-CS-D4-627- 221024	CM-CS-E1-627- 221026	CM-CS-E2-627- 221026
			Elevation:	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl
Polychlorinated Biphenyls										
Aroclor-1016	12674-11-2	NE		0.038 U	0.042 U	0.038 U	0.037 U	0.037 U	0.037 U	0.038 U
Aroclor-1221	11104-28-2	NE		0.038 U	0.042 U	0.038 U	0.037 U	0.037 U	0.037 U	0.038 U
Aroclor-1232	11141-16-5	NE		0.038 U	0.042 U	0.038 U	0.037 U	0.037 U	0.037 U	0.038 U
Aroclor-1242	53469-21-9	0.972		8.34	0.351	6.75	15.7	0.037 U	0.037 U	0.038 U
Aroclor-1248	12672-29-6	0.965		0.038 U	0.042 U	0.038 U	0.037 U	0.037 U	0.725	3.07
Aroclor-1254	11097-69-1	0.988		8.04	0.738	5.89 J+	11	0.708 J+	1.54	2.69
Aroclor-1260	11096-82-5	1		1.4	0.042 U	1.08 J+	1.85	2.95 J+	0.46	0.411
Aroclor-1262	37324-23-5	NE		0.038 U	0.165	0.038 U	0.037 U	0.037 U	0.037 U	0.038 U
Aroclor-1268	11100-14-4	NE		0.038 U	0.042 U	0.038 U	0.037 U	0.037 U	0.037 U	0.038 U
Total PCBs*	1336-36-3	0.967		17.8	1.25	13.7	28.6	3.66 J+	2.73	6.17
Metals										
Arsenic	7440-38-2	3		21	4.6	13	180	27	7	13
Barium	7440-39-3	NE		540	63	250	680	1600	150	90
Cadmium	7440-43-9	NE		22	2.1	23	28	29	8.6	1.3
Chromium	7440-47-3	1750000		150	10	140	730	220	27	18
Lead	7439-92-1	800		1900	820	1100	5300	4000	1600	20000
Mercury	7439-97-6	3.13		10	0.63	14	20	15	1.8	0.92
Selenium	7782-49-2	NE		3.5 U	0.36 U	3.4 U	2	3.4	0.92	0.77
Silver	7440-22-4	5840		2.6 J	0.48	1.7 J	2.8	2.9	0.73	4

See notes on last page.

Appendix E, Table 4
Confirmation Soil Samples: 627 ft amsl
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	WI DNR Industrial RCL	Grid ID:	E3	E4	F1	F2	F3	F4	G1
			Sample ID:	CM-CS-E3-627- 221026	CM-CS-E4-627- 221024	CM-CS-F1-627- 221025	CM-CS-F2-627- 221101	CM-CS-F3-627- 221027	CM-CS-F4-627- 221024	CM-CS-G1-627- 221027
			Elevation:	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl	627 ft amsl
Polychlorinated Biphenyls										
Aroclor-1016	12674-11-2	NE		0.41 U	0.038 U	0.041 U	0.038 U	0.04 U	0.2 U	0.037 UJ
Aroclor-1221	11104-28-2	NE		0.41 U	0.038 U	0.041 U	0.038 U	0.04 U	0.2 U	0.037 U
Aroclor-1232	11141-16-5	NE		0.41 U	0.038 U	0.041 U	0.038 U	0.04 U	0.2 U	0.037 U
Aroclor-1242	53469-21-9	0.972		0.41 U	22.4 J+	0.041 U	0.696	14.8	0.2 U	1.81
Aroclor-1248	12672-29-6	0.965		31.2	0.038 U	0.041 U	0.038 U	0.04 U	19.3 J+	0.037 U
Aroclor-1254	11097-69-1	0.988		20.2	22.8 J+	0.041 U	0.665	12.8	14 J+	0.456
Aroclor-1260	11096-82-5	1		3.38	2.52 J+	0.041 U	0.388	2.09	2.77 J+	0.235 J
Aroclor-1262	37324-23-5	NE		0.41 U	0.038 U	0.041 U	0.038 U	0.04 U	0.2 U	0.037 U
Aroclor-1268	11100-14-4	NE		0.41 U	0.038 U	0.041 U	0.038 U	0.04 U	0.2 U	0.037 U
Total PCBs*	1336-36-3	0.967		54.8	47.7 J+	0.041 U	1.75	29.7	36.1 J+	2.5
Metals										
Arsenic	7440-38-2	3		14	21	4.8	8.7 J-	45	47	2.7
Barium	7440-39-3	NE		710	520	84	170	4500	1600	36
Cadmium	7440-43-9	NE		14	20	0.48	3.3 J-	47	35	0.29
Chromium	7440-47-3	1750000		68	94	16	22 J-	160	170	5.2
Lead	7439-92-1	800		2500	1200	130	1300	9100	3700	100
Mercury	7439-97-6	3.13		9.1	15	0.23	1.7	12	28	0.14
Selenium	7782-49-2	NE		2.4	2	0.33 U	0.94 J-	2.3	2.1	0.39
Silver	7440-22-4	5840		1.6	1.9	0.099 J	0.79 J-	2.2	3.4	0.062 J

See notes on last page.

Appendix E, Table 4
Confirmation Soil Samples: 627 ft amsl
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	WI DNR Industrial RCL	Grid ID:	G2	G3	G4
			Sample ID:	CM-CS-G2-627- 221031	CM-CS-G3-627- 221031	CM-CS-G4-627- 221031
			Elevation:	627 ft amsl	627 ft amsl	627 ft amsl
Polychlorinated Biphenyls						
Aroclor-1016	12674-11-2	NE		0.039 U	0.039 U	0.2 U
Aroclor-1221	11104-28-2	NE		0.039 U	0.039 U	0.2 U
Aroclor-1232	11141-16-5	NE		0.039 U	0.039 U	0.2 U
Aroclor-1242	53469-21-9	0.972		0.729	6.99	11.9
Aroclor-1248	12672-29-6	0.965		0.039 U	0.039 U	0.2 U
Aroclor-1254	11097-69-1	0.988		0.627	5.35	29.5
Aroclor-1260	11096-82-5	1		0.241	0.96	3.86
Aroclor-1262	37324-23-5	NE		0.039 U	0.039 U	0.2 U
Aroclor-1268	11100-14-4	NE		0.039 U	0.039 U	0.2 U
Total PCBs*	1336-36-3	0.967		1.6	13.3	45.3
Metals						
Arsenic	7440-38-2	3		18	13	35
Barium	7440-39-3	NE		230	300	790
Cadmium	7440-43-9	NE		2.3	8.9	43
Chromium	7440-47-3	1750000		260	41	3400
Lead	7439-92-1	800		590	750	2500
Mercury	7439-97-6	3.13		0.42	4.5	28
Selenium	7782-49-2	NE		3.3 U	3 U	3.4
Silver	7440-22-4	5840		3.3 U	1.1 J	3.5

See notes on last page.

Appendix E, Table 5
Fence Line Trench Samples
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	WI DNR Industrial RCL	Grid ID:	A3	A3	B3	C3	C3	D3	E3
		Sample ID:	CM-FL-A3-N/S- 626-221103	CM-FL-A3-E/W- 625-221103	CM-FL-B3-E/W- 625-221103	CM-FL-C3-N/S- 625-221107	CM-FL-C3-E/W- 625-221107	CM-FL-D3-E/W- 625-221107	CM-FL-E3-E/W- 625-221107
		Extent:	N/S	E/W	E/W	N/S	E/W	E/W	E/W
		Elevation:	626 ft amsl	625 ft amsl	625 ft amsl	625 ft amsl	625 ft amsl	625 ft amsl	625 ft amsl
Polychlorinated Biphenyls									
Aroclor-1016	NE		0.59 U	0.54 U	0.053 U	0.058 U	0.3 U	0.055 U	0.29 U
Aroclor-1221	NE		0.59 U	0.54 U	0.053 U	0.058 U	0.3 U	0.055 U	0.29 U
Aroclor-1232	NE		0.59 U	0.54 U	0.053 U	0.058 U	0.3 U	0.055 U	0.29 U
Aroclor-1242	0.972		0.59 U	0.54 U	0.053 U	0.55	1.8	0.19	1.2
Aroclor-1248	0.965		0.59 U	0.54 U	0.053 U	0.058 U	0.3 U	0.055 U	0.29 U
Aroclor-1254	0.988		4.6	2.5	0.62	0.6	3.2	0.33	2.4
Aroclor-1260	NE		0.59 U	0.54 U	0.053 U	0.058 U	0.3 U	0.055 U	0.29 U
Aroclor-1262	NE		0.59 U	0.54 U	0.053 U	0.058 U	0.3 U	0.055 U	0.29 U
Aroclor-1268	NE		0.59 U	0.54 U	0.053 U	0.058 U	0.3 U	0.055 U	0.29 U
Total PCBs*	0.967		4.6	2.5	0.62	1.15	5	0.52	3.6
Metals									
Arsenic	3		17	6.2	43	7	78	6	9.5
Barium	NE		1300	380	35	41	150	140 F1	160
Cadmium	NE		6	3.3	0.88	1.5	4.5	0.58	6.6
Chromium	1750000		58	30	11	18	35	20	61
Lead	800		2300	220	150	75	380	240 F1 F2	460
Mercury	3.13		3.8	5.4	0.35	0.61	1.3	0.77	5.2
Selenium	NE		0.8 J	0.74 J	2.2 U	2.1 U	0.53 J	0.55 J	1.8 U
Silver	5840		0.48 J	0.24 J	1.1 U	0.18 J	0.62 J	0.24 J	0.86 J

Appendix E, Table 5
Fence Line Trench Samples
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	WI DNR Industrial RCL	Grid ID:	E3	E3
		Sample ID:	CM-FL-DUP01- 221107	CM-FL-E3-N/S- 625-221107
		Extent:	E/W	N/S
		Elevation:	625 ft amsl	625 ft amsl
Polychlorinated Biphenyls				
Aroclor-1016	NE		0.056 U	0.054 U
Aroclor-1221	NE		0.056 U	0.054 U
Aroclor-1232	NE		0.056 U	0.054 U
Aroclor-1242	0.972		0.064	0.023 J
Aroclor-1248	0.965		0.056 U	0.054 U
Aroclor-1254	0.988		0.14	0.054
Aroclor-1260	NE		0.056 U	0.054 U
Aroclor-1262	NE		0.056 U	0.054 U
Aroclor-1268	NE		0.056 U	0.054 U
Total PCBs*	0.967		0.204	0.077
Metals				
Arsenic	3		3.5	4.5
Barium	NE		15 J	15 J
Cadmium	NE		0.21 J	0.23 J
Chromium	1750000		5.7	8.6
Lead	800		11	15
Mercury	3.13		0.035 J	0.074 J
Selenium	NE		2.1 U	1.7 U
Silver	5840		1 U	0.11 J

Notes:

All screening levels and results are presented in units milligrams per kilogram (mg/kg).

*Total PCB result calculated using reported concentrations of detected aroclors.

Highlighted result exceeds the Wis. Admin. Code Chapter NR720 cleanup standards for industrial properties and will require a visible barrier.

Highlighted result exceeds 25 mg/kg and will require a cap

amsl - Above mean sea level

CAS No. - Chemical Abstracts Service Number

ft - Feet

MDL - Method detection limit

mg/kg - Milligram per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NE - Not established

PCB - Polychlorinated biphenyl

RCL - Residual contaminant level

RL - Reporting limit

WI DNR - Wisconsin Department of Natural Resources

Wis Admin - Wisconsin Administrative

Qualifiers

F1 MS and/or MSD recover exceeds control limits.

J

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U The analyte was not detected.

**Appendix E, Table 6
Backfill Soil Samples
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin**

Analyte	CAS No.	EPA RSL - Industrial Soil	WI DNR Not-to- Exceed Direct Contact RCL - Industrial	CM-BF-LQ- 221020	CM-BF-LP- 221020
Metals (SW6010)					
Aluminum	7429-90-5	1100000	100000	230	690
Antimony	7440-36-0	470	467	0.44 J	0.17 J
Arsenic	7440-38-2	3	3	0.78 J	0.79 J
Barium	7440-39-3	220000	100000	1.2 J	3.7 J
Beryllium	7440-41-7	2300	2300	0.048 J	0.22 U
Cadmium	7440-43-9	100	985	0.24 U	0.063 J
Calcium	7440-70-2	NE	NE	200000 J+	160000
Chromium	7440-47-3		NE	1.4 J	2.4
Cobalt	7440-48-4	350	347	0.24 J+	0.97
Copper	7440-50-8	47000	46700	0.66 J	2.9 J
Iron	7439-89-6	820000	100000	1100 J	2800
Lead	7439-92-1	800	800	0.37 J-	1.4
Magnesium	7439-95-4	NE	NE	130000 J+	90000
Manganese	7439-96-5		25900	85	180
Nickel	7440-02-0	22000	22500	0.94	2.3
Potassium	7440-09-7	NE	NE	267 J	243 J
Selenium	7782-49-2	5800	5840	0.98 U	1.1 U
Silver	7440-22-4	5800	5840	0.98 U	1.1 U
Sodium	7440-23-5	NE	NE	264 J	215 J
Thallium	7440-28-0	12	11.7	0.98 UJ	1.1 U
Vanadium	7440-62-2	5800	5840	2.4	4.9
Zinc	7440-66-6	350000	100000	1.7	11
Mercury (SW7471B)					
Mercury	7439-97-6	46	3.13	0.0091 U	0.0092 U
Polychlorinated Biphenyls (PCBs) (SW8082)					
Aroclor-1016	12674-11-2	27	28	0.061 U	0.063 U
Aroclor-1221	11104-28-2	0.83	0.883	0.081 U	0.084 U
Aroclor-1232	11141-16-5	0.72	0.792	0.061 U	0.063 U
Aroclor-1242	53469-21-9	0.95	0.972	0.061 U	0.063 U
Aroclor-1248	12672-29-6	0.94	0.975	0.061 U	0.063 U
Aroclor-1254	11097-69-1	0.97	0.988	0.061 U	0.063 U
Aroclor-1260	11096-82-5	0.99	1	0.061 U	0.063 U
Aroclor-1262	37324-23-5	NE	NE	0.061 U	0.063 U
Aroclor-1268	11100-14-4	NE	NE	0.061 U	0.063 U
PCB, Total	1336-36-3	0.94	0.967	0.081 U	0.084 U
Volatile Organic Compounds (VOCs) (SW8260C)					
1,1,1-Trichloroethane	71-55-6	36000	640	0.2 U	0.21 U
1,1,2,2-Tetrachloroethane	79-34-5	2.7	3.6	0.1 U	0.1 U
1,1,2-Trichloroethane	79-00-5	5	7.01	0.2 U	0.21 U
1,1-Dichloroethane	75-34-3	16	22.2	0.2 U	0.21 U
1,1-Dichloroethene	75-35-4	1000	1190	0.1 U	0.1 U
1,2,3-Trichlorobenzene	87-61-6	930	934	0.1 U	0.1 U
1,2,4-Trichlorobenzene	120-82-1	110	113	0.1 U	0.1 U
1,2-Dibromo-3-chloropropane	96-12-8	0.064	0.0923	0.1 U	0.1 U
1,2-Dibromoethane	106-93-4	0.16	0.221	0.1 U	0.1 U
1,2-Dichlorobenzene	95-50-1	9300	376	0.1 U	0.1 U
1,2-Dichloroethane	107-06-2	2	2.87	0.1 U	0.1 U
1,2-Dichloropropane	78-87-5	11	15	0.2 U	0.21 U
1,3-Dichlorobenzene	541-73-1	NE	297	0.1 U	0.1 U
1,4-Dichlorobenzene	106-46-7	11	16.4	0.1 U	0.1 U
1,1,2,2-Tetrachloroethane	76-13-1	28000	910	0.41 U	0.42 U
2-Butanone	78-93-3	190000	28400	2 U	2.1 U
2-Hexanone	591-78-6	1300	1760	1 U	1 U
4-Methyl-2-pentanone	108-10-1	140000	3360	2 U	2.1 U
Acetone	67-64-1	1100000	100000	1 U	1 U
Benzene	71-43-2	5.1	7.07	0.2 U	0.21 U
Bromochloromethane	74-97-5	630	906	0.2 U	0.21 U
Bromodichloromethane	75-27-4	1.3	1.83	0.1 U	0.1 U
Bromoform	75-25-2	86	113	0.1 U	0.1 U
Bromomethane	74-83-9	30	43	0.41 U	0.42 U
Carbon disulfide	75-15-0	3500	738	0.41 UJ	0.42 UJ
Carbon tetrachloride	56-23-5	2.9	4.03	0.2 U	0.21 U

Appendix E, Table 6
Backfill Soil Samples
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	EPA RSL - Industrial Soil	WI DNR Not-to- Exceed Direct Contact RCL - Industrial	CM-BF-LQ- 221020	CM-BF-LP- 221020
Chlorobenzene	108-90-7	1300	761	0.1 U	0.1 U
Chloroethane	75-00-3	23000	2120	0.41 U	0.42 U
Chloroform	67-66-3	1.4	1.98	0.2 U	0.21 U
Chloromethane	74-87-3	460	669	0.2 U	0.21 U
cis-1,2-Dichloroethene	156-59-2	370	2340	0.2 U	0.21 U
cis-1,3-Dichloropropene	10061-01-5	NE	1210	0.2 U	0.21 U
Cyclohexane	110-82-7	27000	117	0.2 U	0.21 U
Dibromochloromethane	124-48-1	39	38.9	0.1 U	0.1 U
Dichlorodifluoromethane	75-71-8	370	530	0.2 U	0.21 U
Ethylbenzene	100-41-4	25	35.4	0.1 U	0.1 U
Isopropylbenzene	98-82-8	9900	268	0.1 U	0.1 U
m & p-Xylene	179601-23-1	NE	NE	0.2 U	0.21 U
Methyl acetate	79-20-9	1200000	29000	0.2 U	0.21 U
Methyl tert-butyl ether	1634-04-4	210	282	0.1 U	0.1 U
Methylcyclohexane	108-87-2	NE	67.6	0.2 U	0.21 U
Methylene chloride	75-09-2	1000	1150	0.2 U	0.21 U
o-Xylene	95-47-6	2800	434	0.1 U	0.1 U
Styrene	100-42-5	35000	867	0.1 U	0.1 U
Tetrachloroethene	127-18-4	100	145	0.2 U	0.21 U
Toluene	108-88-3	47000	818	0.2 U	0.21 U
trans-1,2-Dichloroethene	156-60-5	300	1850	0.2 U	0.21 U
trans-1,3-Dichloropropene	10061-02-6	NE	1510	0.2 U	0.21 U
Trichloroethene	79-01-6	6	8.41	0.2 U	0.21 U
Trichlorofluoromethane	75-69-4	350000	1230	0.2 U	0.21 U
Vinyl chloride	75-01-4	1.7	2.08	0.2 U	0.21 U
Semivolatile Organic Compounds (SVOC) (SW8270D)					
1,1'-Biphenyl	92-52-4	200	288	0.2 U	0.21 U
1,2,4,5-Tetrachlorobenzene	95-94-3	35	350	0.41 U	0.42 U
2,4,5-Trichlorophenol	95-95-4	82000	82100	1 U	1 U
2,4,6-Trichlorophenol	88-06-2	210	209	1 U	1 U
2,4-Dichlorophenol	120-83-2	2500	2460	1 U	1 U
2,4-Dimethylphenol	105-67-9	16000	16400	1 UJ	1 UJ
2,4-Dinitrophenol	51-28-5	1600	1640	1 U	1 U
2,4-Dinitrotoluene	121-14-2	7.4	7.37	0.2 U	0.21 U
2,6-Dinitrotoluene	606-20-2	1.5	1.54	0.2 U	0.21 U
2-Chloronaphthalene	91-58-7	60000	60300	0.2 U	0.21 U
2-Chlorophenol	95-57-8	5800	5840	1 U	1 U
2-Methylnaphthalene	91-57-6	3000	3010	0.2 U	0.21 U
2-Methylphenol	95-48-7	41000	41000	1 U	1 U
2-Nitroaniline	88-74-4	8000	8010	0.41 U	0.42 U
2-Nitrophenol	88-75-5	NE	NE	1 U	1 U
3 & 4-Methylphenol	1319-77-3	82000	82100	2 U	2.1 U
3,3'-Dichlorobenzidine	91-94-1	5.1	5.11	0.41 U	0.42 U
3-Nitroaniline	99-09-2	NE	NE	0.2 U	0.21 U
4,6-Dinitro-2-methylphenol	534-52-1	66	65.7	1 U	1 U
4-Bromophenyl-phenyl ether	101-55-3	NE	26.9	0.2 U	0.21 U
4-Chloro-3-methylphenol	59-50-7	82000	82100	1 U	1 U
4-Chloroaniline	106-47-8	11	11.5	0.41 U	0.42 U
4-Chlorophenyl-phenyl ether	7005-72-3	NE	NE	0.2 U	0.21 U
4-Nitroaniline	100-01-6	110	115	0.2 U	0.21 U
4-Nitrophenol	100-02-7	NE	NE	1 U	1 U
Acenaphthene	83-32-9	45000	45200	0.41 U	0.42 U
Acenaphthylene	208-96-8	NE	NE	0.2 U	0.21 U
Acetophenone	98-86-2	120000	2520	0.2 U	0.21 U
Anthracene	120-12-7	230000	100000	0.2 U	0.21 U
Atrazine	1912-24-9	10	9.99	0.2 U	0.21 U
Benzaldehyde	100-52-7	820	818	0.2 U	0.21 U
Benzo(a)anthracene	56-55-3	21	20.8	0.2 U	0.21 U
Benzo(a)pyrene	50-32-8	2.1	2.11	0.2 U	0.21 U
Benzo(b)fluoranthene	205-99-2	21	21.1	0.2 U	0.21 U
Benzo(g,h,i)perylene	191-24-2	NE	NE	0.2 U	0.21 U
Benzo(k)fluoranthene	207-08-9	210	211	0.2 U	0.21 U
Bis(2-chloroethoxy)methane	111-91-1	2500	2460	0.2 U	0.21 U

Appendix E, Table 6
Backfill Soil Samples
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Analyte	CAS No.	EPA RSL - Industrial Soil	WI DNR Not-to- Exceed Direct Contact RCL - Industrial	CM-BF-LQ- 221020	CM-BF-LP- 221020
Bis(2-chloroethyl)ether	111-44-4	1	1.29	0.2 U	0.21 U
Bis(2-chloroisopropyl)ether	108-60-1	47000	1020	0.2 U	0.21 U
Bis(2-ethylhexyl)phthalate	117-81-7	160	164	0.2 U	0.21 U
Butylbenzylphthalate	85-68-7	1200	1210	0.41 U	0.42 U
Caprolactam	105-60-2	400000	100000	0.41 U	0.42 U
Carbazole	86-74-8	NE	NE	0.41 U	0.42 U
Chrysene	218-01-9	2100	2110	0.2 U	0.21 U
Dibenzo(a,h)anthracene	53-70-3	2.1	2.11	0.2 U	0.21 U
Dibenzofuran	132-64-9	1200	1040	0.2 U	0.21 U
Diethylphthalate	84-66-2	660000	100000	0.2 U	0.21 U
Dimethylphthalate	131-11-3	NE	NE	0.2 U	0.21 U
Di-n-butylphthalate	84-74-2	82000	82100	0.41 U	0.42 U
Di-n-octylphthalate	117-84-0	8200	8210	0.2 U	0.21 U
Fluoranthene	206-44-0	30000	30100	0.2 U	0.21 U
Fluorene	86-73-7	30000	30100	0.2 U	0.21 U
Hexachlorobenzene	118-74-1	0.96	1.15	0.2 U	0.21 U
Hexachlorobutadiene	87-68-3	5.3	7.19	0.2 U	0.21 U
Hexachlorocyclopentadiene	77-47-4	7.5	10.8	0.2 U	0.21 U
Hexachloroethane	67-72-1	8	11.1	0.2 U	0.21 U
Indeno(1,2,3-cd)pyrene	193-39-5	21	21.1	0.2 U	0.21 U
Isophorone	78-59-1	2400	2420	0.2 U	0.21 U
Naphthalene	91-20-3	8.6	24.1	0.2 U	0.21 U
Nitrobenzene	98-95-3	22	32.4	0.2 U	0.21 U
N-Nitroso-di-n-propylamine	621-64-7	0.33	0.328	0.2 U	0.21 U
N-Nitrosodiphenylamine & Diphn	86-30-6/122-39-4	NE	NE	0.41 U	0.42 U
Pentachlorophenol	87-86-5	4	3.97	1 U	1 U
Phenanthrene	85-01-8	NE	NE	0.2 U	0.21 U
Phenol	108-95-2	250000	100000	1 U	1 U
Pyrene	129-00-0	23000	22600	0.2 U	0.21 U
pH					
pH	PH		NE	8.69	8.6

Appendix E, Table 7
Air Sample Results Summary Table
Chudnow Metals Site
Milwaukee, Milwaukee County, Wisconsin

Sample ID	Sample Location	Analyte	Arsenic		Lead	
		CAS No.	7440-38-2		7439-92-1	
		OSHA PEL	10		50	
		Sample Date				
CM-AS-BE-220919	Building Entrance	9/19/2022	0.18 U		0.18 U	
CM-AS-DW-220919	Downwind	9/19/2022	0.18 U		0.18 U	
CM-AS-UW-220919	Upwind	9/19/2022	0.17 U		0.17 U	
CM-AS-BE-220921	Building Entrance	9/21/2022	0.11 U		0.11 U	
CM-AS-DUP-220921	Downwind	9/21/2022	0.12 U		0.12 U	
CM-AS-DW-220921	Downwind	9/21/2022	0.12 U		0.12 U	
CM-AS-UW-220921	Upwind	9/21/2022	0.12 U		0.12 U	
CM-AS-BE-220922	Building Entrance	9/22/2022	0.12 U		0.12 U	
CM-AS-DW-220922	Downwind	9/22/2022	0.12 U		0.12 U	
CM-AS-UW-220922	Upwind	9/22/2022	0.12 U		0.12 U	
CM-AS-BE-220923	Building Entrance	9/23/2022	0.15 U		0.15 U	
CM-AS-DW-220923	Downwind	9/23/2022	0.15 U		0.15 U	
CM-AS-UW-220923	Upwind	9/23/2022	0.15 U		0.15 U	
CM-AS-BE-220926	Building Entrance	9/26/2022	0.12 U		0.12 U	
CM-AS-DW-220926	Downwind	9/26/2022	0.11 U		0.11 U	
CM-AS-UW-220926	Upwind	9/26/2022	0.11 U		0.11 U	
CM-AS-BE-220927	Building Entrance	9/27/2022	0.12 U		0.12 U	
CM-AS-DW-220927	Downwind	9/27/2022	0.13 U		0.13 U	
CM-AS-UW-220927	Upwind	9/27/2022	0.12 U		0.12 U	
CM-AS-BE-220928	Building Entrance	9/28/2022	0.12 U		0.12 U	
CM-AS-DUP-220928	Building Entrance	9/28/2022	0.12 U		0.12 U	
CM-AS-DW-220928	Downwind	9/28/2022	0.0053 J		0.11 U	
CM-AS-UW-220928	Upwind	9/28/2022	0.12 U		0.12 U	

Notes:

All results and screening levels are presented in units micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

CAS No. - Chemical Abstract Service Number

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

Qualifiers

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

U - The analyte was not detected.

APPENDIX F
ENVIRONMENTALLY PREFERRED PRACTICES

TDD #:	F0032-0001DH108
Site Name:	Chudnow Metals Site
Site City, State:	Milwaukee, Milwaukee County, Wisconsin
Site Project Manager:	Rachel Houle
EPA OSC:	Rob Kondreck

Environmentally Preferred General Field Practices				
If a general category is not applicable, then check N/A for the category box, not for each subcategory.	N= Not Used	N/A= Not Applicable	Y = Yes Implemented	Comments Section Justify in the comments for each BMP field as to why the practice was not used, not applicable, or implemented.
Energy				
Use of Energy Efficient Equipment				
Computer Equipment (FEMP/Energy Star)			Y	Computer and monitors used are Energy Star certified.
Installation of Electric Service		N/A		Electrical service was available at the job site.
Reduce Carbon Emissions from Transportation				
Use Internet Based Meetings/Conferences			Y	EPA utilized conference calls during this emergency response.
Maximize Carpooling		N/A		
Use of Local Labor/Suppliers/Waste Disposal Facilities (50 mile radius)			Y	Bureau Veritas was a local laboratory used for clearance air samples.
No idling, except for extreme weather conditions			Y	No idling of vehicles took place during site activities.
Use of Alternative Fuels, if available within 10 miles	N			No alternative fuel vehicles were available/used by site personnel.
Properly Inflated Tires			Y	All vehicles used on site had properly inflated tires.
Email Small Files (less than 8MB)			Y	Files were electronically distributed whenever possible.
Reusable Electronic Storage Media or the Cloud			Y	Files were electronically distributed whenever possible.
Water				
Use of Low Flow Sampling Pumps		N/A		Groundwater samples were not collected during this emergency response.
Waste				
Use of Local Recycling Programs			Y	Uncontaminated plastic, aluminum, and glass generated in support of the project were recycled locally.

Environmentally Preferred General Field Practices				
If a general category is not applicable, then check N/A for the category box, not for each subcategory.	N = Not Used	N/A = Not Applicable	Y = Yes Implemented	Comments Section Justify in the comments for each BMP field as to why the practice was not used, not applicable, or implemented.
Use of Rechargeable Batteries			Y	The DustTraks and Gillian air pumps used at the site have rechargeable batteries.
Recycling – Other		N/A		No additional recycling was required for the waste streams generated for the project.
Plastic Reduction			Y	Plastic use was limited to poly sheeting laid out for the floor of the contamination reduction zone.
Reuse of Resources			Y	Non-Dedicated equipment was decontaminated and reused at the site.
Direct Push Boring			Y	Monitoring wells were installed using direct-push technology.
Materials				
Printing when Required				
Double-sided Printing			Y	Double-sided printing was used when printing was deemed necessary.
100% post-consumer recycled paper			Y	Recycled paper was used when printing was deemed necessary.
Land & Ecosystems				
Minimize Disruption to Natural Vegetation	N			Due to the nature of the removal action, natural vegetation was removed as prior to excavation activities. However, large trees were left intact.
Use of Non-invasive Investigation Techniques		N/A		
Environmentally Preferred				
Green Procurement				
Environmentally Preferred Vendors			Y	CT, Eurofins, ALS Holland, and SGS Dayton were used for analytical services (see below).
Green Lodging/Hotels		N/A		The hotel used for lodging offered guest room recycling services, a per room carbon footprint of 16.99 kg/night, and a per room water footprint of 437.04 L/room.

Environmentally Preferred General Field Practices				
If a general category is not applicable, then check N/A for the category box, not for each subcategory.	N = Not Used	N/A = Not Applicable	Y = Yes Implemented	Comments Section Justify in the comments for each BMP field as to why the practice was not used, not applicable, or implemented.
Use of Green Laboratories			Y	<p>CT Laboratories LLC recycles 90-95% of plastic, paper, boxes, and packaging; reduced sample volume for analyses in the metals, wet chemistry, and semivolatile laboratories, which downscaled solvent volumes, bottle size and disposal of nonhazardous soils and solid materials; utilizes energy efficient lighting throughout laboratory.</p> <p>Eurofins Canton is working on several initiatives targeted at reducing solvent usage. The reduced solvent volume reduces emissions, waste, and when coupled with logistics, decreases overall carbon footprint from sample acquisition through to analysis and disposal.</p> <p>SGS Dayton recycles solvents to improve sustainability and reduce waste. Additionally, the vehicle fleet is being upgraded to low carbon emission technologies. SGS is also transitioning to reduced sample volume technology which will reduce solvents and waste as well as sampling efforts. This also allows for the use of smaller bottles with a reduced footprint for shipping and transportation.</p>

ATTACHMENT 1

INVESTIGATIVE SOIL SAMPLING ANALYTICAL REPORT – 22092111



28-Sep-2022

Rachel Houle
Tetra Tech EM Inc.
1 South Wacker Dr
Suite 3700
Chicago, IL 60606

Re: **Chudnow Metals**

Work Order: **22092111**

Dear Rachel,

ALS Environmental received 14 samples on 22-Sep-2022 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 24.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22092111

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22092111-01	CM-SBA2-631-630-220921	Soil		9/21/2022 09:45	9/22/2022 09:00	<input type="checkbox"/>
22092111-02	CM-SBA2-630-629-220921	Soil		9/21/2022 09:47	9/22/2022 09:00	<input type="checkbox"/>
22092111-03	CM-SBC2-631.5-631-220921	Soil		9/21/2022 10:10	9/22/2022 09:00	<input type="checkbox"/>
22092111-04	CM-SBC2-631-630-220921	Soil		9/21/2022 10:12	9/22/2022 09:00	<input type="checkbox"/>
22092111-05	CM-SBC2-630-629-220921	Soil		9/21/2022 10:14	9/22/2022 09:00	<input type="checkbox"/>
22092111-06	CM-SBD1-632-631-220921	Soil		9/21/2022 10:28	9/22/2022 09:00	<input type="checkbox"/>
22092111-07	CM-SBD1-631-630-220921	Soil		9/21/2022 10:30	9/22/2022 09:00	<input type="checkbox"/>
22092111-08	CM-SBD1-630-629-220921	Soil		9/21/2022 10:34	9/22/2022 09:00	<input type="checkbox"/>
22092111-09	CM-SBC3-633-632-220921	Soil		9/21/2022 10:47	9/22/2022 09:00	<input type="checkbox"/>
22092111-10	CM-SBC3-632-631-220921	Soil		9/21/2022 10:49	9/22/2022 09:00	<input type="checkbox"/>
22092111-11	CM-SBC3-631-630-220921	Soil		9/21/2022 10:53	9/22/2022 09:00	<input type="checkbox"/>
22092111-12	CM-SBC3-630-629-220921	Soil		9/21/2022 10:55	9/22/2022 09:00	<input type="checkbox"/>
22092111-13	CM-SB-DUP01-220921	Soil		9/21/2022 10:32	9/22/2022 09:00	<input type="checkbox"/>
22092111-14	CM-SB-DUP02-220921	Soil		9/21/2022 10:51	9/22/2022 09:00	<input type="checkbox"/>

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22092111

Case Narrative

Samples for the above noted Work Order were received on 09/22/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Extractable Organics:

Batch 203699, Method SW8082A, Sample 22092111-11A MS/MSD: The MS/MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Aroclor 1016, Aroclor 1260.

Wet Chemistry:

No other deviations or anomalies were noted.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group, USA

Date: 28-Sep-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-SBA2-631-630-220921
Collection Date: 9/21/2022 09:45 AM

Work Order: 22092111
Lab ID: 22092111-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			Method: SW8082A		Prep: SW3550 / 9/23/22		Analyst: RM
Aroclor 1016	U		35	90	µg/Kg-dry	1	9/27/2022 04:27
Aroclor 1221	U		35	90	µg/Kg-dry	1	9/27/2022 04:27
Aroclor 1232	U		35	90	µg/Kg-dry	1	9/27/2022 04:27
Aroclor 1242	U		35	90	µg/Kg-dry	1	9/27/2022 04:27
Aroclor 1248	U		35	90	µg/Kg-dry	1	9/27/2022 04:27
Aroclor 1254	1,800		24	90	µg/Kg-dry	1	9/27/2022 04:27
Aroclor 1260	U		24	90	µg/Kg-dry	1	9/27/2022 04:27
Aroclor 1262	U		24	90	µg/Kg-dry	1	9/27/2022 04:27
Aroclor 1268	U		24	90	µg/Kg-dry	1	9/27/2022 04:27
PCBs, Total	1,700		24	90	µg/Kg-dry	1	9/27/2022 04:27
Surr: Decachlorobiphenyl	70.1			40-140	%REC	1	9/27/2022 04:27
Surr: Tetrachloro-m-xylene	60.1			45-124	%REC	1	9/27/2022 04:27
MOISTURE							
			Method: SW3550C				
Moisture	8.2		0.10	0.10	% of sample	1	9/22/2022 14:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 28-Sep-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-SBA2-630-629-220921
Collection Date: 9/21/2022 09:47 AM

Work Order: 22092111
Lab ID: 22092111-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			Method: SW8082A		Prep: SW3550 / 9/23/22		Analyst: RM
Aroclor 1016	U		38	98	µg/Kg-dry	1	9/27/2022 04:39
Aroclor 1221	U		38	98	µg/Kg-dry	1	9/27/2022 04:39
Aroclor 1232	U		38	98	µg/Kg-dry	1	9/27/2022 04:39
Aroclor 1242	U		38	98	µg/Kg-dry	1	9/27/2022 04:39
Aroclor 1248	U		38	98	µg/Kg-dry	1	9/27/2022 04:39
Aroclor 1254	11,000		270	980	µg/Kg-dry	10	9/27/2022 17:29
Aroclor 1260	U		27	98	µg/Kg-dry	1	9/27/2022 04:39
Aroclor 1262	U		27	98	µg/Kg-dry	1	9/27/2022 04:39
Aroclor 1268	U		27	98	µg/Kg-dry	1	9/27/2022 04:39
PCBs, Total	11,000		270	980	µg/Kg-dry	10	9/27/2022 17:29
Surr: Decachlorobiphenyl	70.1			40-140	%REC	1	9/27/2022 04:39
Surr: Tetrachloro-m-xylene	70.1			45-124	%REC	1	9/27/2022 04:39
MOISTURE							
			Method: SW3550C				
Moisture	17		0.10	0.10	% of sample	1	9/22/2022 14:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 28-Sep-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-SBC2-631.5-631-220921
Collection Date: 9/21/2022 10:10 AM

Work Order: 22092111
Lab ID: 22092111-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			Method: SW8082A		Prep: SW3550 / 9/23/22		Analyst: RM
Aroclor 1016	U		36	93	µg/Kg-dry	1	9/27/2022 04:52
Aroclor 1221	U		36	93	µg/Kg-dry	1	9/27/2022 04:52
Aroclor 1232	U		36	93	µg/Kg-dry	1	9/27/2022 04:52
Aroclor 1242	U		36	93	µg/Kg-dry	1	9/27/2022 04:52
Aroclor 1248	U		36	93	µg/Kg-dry	1	9/27/2022 04:52
Aroclor 1254	3,300		25	93	µg/Kg-dry	1	9/27/2022 04:52
Aroclor 1260	U		25	93	µg/Kg-dry	1	9/27/2022 04:52
Aroclor 1262	U		25	93	µg/Kg-dry	1	9/27/2022 04:52
Aroclor 1268	U		25	93	µg/Kg-dry	1	9/27/2022 04:52
PCBs, Total	3,400		25	93	µg/Kg-dry	1	9/27/2022 04:52
Surr: Decachlorobiphenyl	60.1			40-140	%REC	1	9/27/2022 04:52
Surr: Tetrachloro-m-xylene	70.1			45-124	%REC	1	9/27/2022 04:52
MOISTURE							
			Method: SW3550C				
Moisture	10		0.10	0.10	% of sample	1	9/22/2022 14:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 28-Sep-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-SBC2-631-630-220921
Collection Date: 9/21/2022 10:12 AM

Work Order: 22092111
Lab ID: 22092111-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			Method: SW8082A		Prep: SW3550 / 9/23/22		Analyst: RM
Aroclor 1016	U		40	100	µg/Kg-dry	1	9/27/2022 05:43
Aroclor 1221	U		40	100	µg/Kg-dry	1	9/27/2022 05:43
Aroclor 1232	U		40	100	µg/Kg-dry	1	9/27/2022 05:43
Aroclor 1242	U		40	100	µg/Kg-dry	1	9/27/2022 05:43
Aroclor 1248	U		40	100	µg/Kg-dry	1	9/27/2022 05:43
Aroclor 1254	10,000		270	1,000	µg/Kg-dry	10	9/27/2022 17:42
Aroclor 1260	U		27	100	µg/Kg-dry	1	9/27/2022 05:43
Aroclor 1262	U		27	100	µg/Kg-dry	1	9/27/2022 05:43
Aroclor 1268	U		27	100	µg/Kg-dry	1	9/27/2022 05:43
PCBs, Total	10,000		270	1,000	µg/Kg-dry	10	9/27/2022 17:42
Surr: Decachlorobiphenyl	80.1			40-140	%REC	1	9/27/2022 05:43
Surr: Tetrachloro-m-xylene	80.1			45-124	%REC	1	9/27/2022 05:43
MOISTURE							
			Method: SW3550C				
Moisture	19		0.10	0.10	% of sample	1	9/22/2022 14:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 28-Sep-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-SBC2-630-629-220921
Collection Date: 9/21/2022 10:14 AM

Work Order: 22092111
Lab ID: 22092111-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			Method: SW8082A		Prep: SW3550 / 9/23/22		Analyst: RM
Aroclor 1016	U		39	99	µg/Kg-dry	1	9/27/2022 05:56
Aroclor 1221	U		39	99	µg/Kg-dry	1	9/27/2022 05:56
Aroclor 1232	U		39	99	µg/Kg-dry	1	9/27/2022 05:56
Aroclor 1242	U		39	99	µg/Kg-dry	1	9/27/2022 05:56
Aroclor 1248	U		39	99	µg/Kg-dry	1	9/27/2022 05:56
Aroclor 1254	9,600		270	990	µg/Kg-dry	10	9/27/2022 17:55
Aroclor 1260	U		27	99	µg/Kg-dry	1	9/27/2022 05:56
Aroclor 1262	U		27	99	µg/Kg-dry	1	9/27/2022 05:56
Aroclor 1268	U		27	99	µg/Kg-dry	1	9/27/2022 05:56
PCBs, Total	9,600		270	990	µg/Kg-dry	10	9/27/2022 17:55
Surr: Decachlorobiphenyl	90.1			40-140	%REC	1	9/27/2022 05:56
Surr: Tetrachloro-m-xylene	90.1			45-124	%REC	1	9/27/2022 05:56
MOISTURE							
			Method: SW3550C				
Moisture	20		0.10	0.10	% of sample	1	9/22/2022 14:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 28-Sep-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-SBD1-632-631-220921
Collection Date: 9/21/2022 10:28 AM

Work Order: 22092111
Lab ID: 22092111-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			Method: SW8082A		Prep: SW3550 / 9/23/22		Analyst: RM
Aroclor 1016	U		34	86	µg/Kg-dry	1	9/27/2022 06:09
Aroclor 1221	U		34	86	µg/Kg-dry	1	9/27/2022 06:09
Aroclor 1232	U		34	86	µg/Kg-dry	1	9/27/2022 06:09
Aroclor 1242	U		34	86	µg/Kg-dry	1	9/27/2022 06:09
Aroclor 1248	U		34	86	µg/Kg-dry	1	9/27/2022 06:09
Aroclor 1254	2,700		23	86	µg/Kg-dry	1	9/27/2022 06:09
Aroclor 1260	U		23	86	µg/Kg-dry	1	9/27/2022 06:09
Aroclor 1262	U		23	86	µg/Kg-dry	1	9/27/2022 06:09
Aroclor 1268	U		23	86	µg/Kg-dry	1	9/27/2022 06:09
PCBs, Total	2,600		23	86	µg/Kg-dry	1	9/27/2022 06:09
Surr: Decachlorobiphenyl	60.1			40-140	%REC	1	9/27/2022 06:09
Surr: Tetrachloro-m-xylene	80.1			45-124	%REC	1	9/27/2022 06:09
MOISTURE							
			Method: SW3550C				
Moisture	8.4		0.10	0.10	% of sample	1	9/22/2022 14:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 28-Sep-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-SBD1-631-630-220921
Collection Date: 9/21/2022 10:30 AM

Work Order: 22092111
Lab ID: 22092111-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			Method: SW8082A		Prep: SW3550 / 9/23/22		Analyst: RM
Aroclor 1016	U		41	100	µg/Kg-dry	1	9/27/2022 06:22
Aroclor 1221	U		41	100	µg/Kg-dry	1	9/27/2022 06:22
Aroclor 1232	U		41	100	µg/Kg-dry	1	9/27/2022 06:22
Aroclor 1242	U		41	100	µg/Kg-dry	1	9/27/2022 06:22
Aroclor 1248	U		41	100	µg/Kg-dry	1	9/27/2022 06:22
Aroclor 1254	11,000		280	1,000	µg/Kg-dry	10	9/27/2022 18:08
Aroclor 1260	U		28	100	µg/Kg-dry	1	9/27/2022 06:22
Aroclor 1262	U		28	100	µg/Kg-dry	1	9/27/2022 06:22
Aroclor 1268	U		28	100	µg/Kg-dry	1	9/27/2022 06:22
PCBs, Total	10,000		280	1,000	µg/Kg-dry	10	9/27/2022 18:08
Surr: Decachlorobiphenyl	90.1			40-140	%REC	1	9/27/2022 06:22
Surr: Tetrachloro-m-xylene	90.1			45-124	%REC	1	9/27/2022 06:22
MOISTURE							
			Method: SW3550C				
Moisture	21		0.10	0.10	% of sample	1	9/22/2022 14:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 28-Sep-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-SBD1-630-629-220921
Collection Date: 9/21/2022 10:34 AM

Work Order: 22092111
Lab ID: 22092111-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			Method: SW8082A		Prep: SW3550 / 9/23/22		Analyst: RM
Aroclor 1016	U		40	100	µg/Kg-dry	1	9/27/2022 06:35
Aroclor 1221	U		40	100	µg/Kg-dry	1	9/27/2022 06:35
Aroclor 1232	U		40	100	µg/Kg-dry	1	9/27/2022 06:35
Aroclor 1242	U		40	100	µg/Kg-dry	1	9/27/2022 06:35
Aroclor 1248	U		40	100	µg/Kg-dry	1	9/27/2022 06:35
Aroclor 1254	17,000		550	2,000	µg/Kg-dry	20	9/27/2022 20:16
Aroclor 1260	U		27	100	µg/Kg-dry	1	9/27/2022 06:35
Aroclor 1262	U		27	100	µg/Kg-dry	1	9/27/2022 06:35
Aroclor 1268	U		27	100	µg/Kg-dry	1	9/27/2022 06:35
PCBs, Total	17,000		550	2,000	µg/Kg-dry	20	9/27/2022 20:16
Surr: Decachlorobiphenyl	80.1			40-140	%REC	1	9/27/2022 06:35
Surr: Tetrachloro-m-xylene	70.1			45-124	%REC	1	9/27/2022 06:35
MOISTURE							
			Method: SW3550C				
Moisture	18		0.10	0.10	% of sample	1	9/22/2022 14:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 28-Sep-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-SBC3-633-632-220921
Collection Date: 9/21/2022 10:47 AM

Work Order: 22092111
Lab ID: 22092111-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			Method: SW8082A		Prep: SW3550 / 9/23/22		Analyst: RM
Aroclor 1016	U		38	97	µg/Kg-dry	1	9/27/2022 06:47
Aroclor 1221	U		38	97	µg/Kg-dry	1	9/27/2022 06:47
Aroclor 1232	U		38	97	µg/Kg-dry	1	9/27/2022 06:47
Aroclor 1242	U		38	97	µg/Kg-dry	1	9/27/2022 06:47
Aroclor 1248	U		38	97	µg/Kg-dry	1	9/27/2022 06:47
Aroclor 1254	7,000		260	970	µg/Kg-dry	10	9/27/2022 18:20
Aroclor 1260	U		26	97	µg/Kg-dry	1	9/27/2022 06:47
Aroclor 1262	U		26	97	µg/Kg-dry	1	9/27/2022 06:47
Aroclor 1268	U		26	97	µg/Kg-dry	1	9/27/2022 06:47
PCBs, Total	6,900		260	970	µg/Kg-dry	10	9/27/2022 18:20
Surr: Decachlorobiphenyl	80.1			40-140	%REC	1	9/27/2022 06:47
Surr: Tetrachloro-m-xylene	80.1			45-124	%REC	1	9/27/2022 06:47
MOISTURE							
			Method: SW3550C				
Moisture	15		0.10	0.10	% of sample	1	9/22/2022 14:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 28-Sep-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-SBC3-632-631-220921
Collection Date: 9/21/2022 10:49 AM

Work Order: 22092111
Lab ID: 22092111-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			Method: SW8082A		Prep: SW3550 / 9/23/22		Analyst: RM
Aroclor 1016	U		38	97	µg/Kg-dry	1	9/27/2022 07:00
Aroclor 1221	U		38	97	µg/Kg-dry	1	9/27/2022 07:00
Aroclor 1232	U		38	97	µg/Kg-dry	1	9/27/2022 07:00
Aroclor 1242	U		38	97	µg/Kg-dry	1	9/27/2022 07:00
Aroclor 1248	U		38	97	µg/Kg-dry	1	9/27/2022 07:00
Aroclor 1254	17,000		260	970	µg/Kg-dry	10	9/27/2022 18:33
Aroclor 1260	U		26	97	µg/Kg-dry	1	9/27/2022 07:00
Aroclor 1262	U		26	97	µg/Kg-dry	1	9/27/2022 07:00
Aroclor 1268	U		26	97	µg/Kg-dry	1	9/27/2022 07:00
PCBs, Total	17,000		260	970	µg/Kg-dry	10	9/27/2022 18:33
Surr: Decachlorobiphenyl	80.1			40-140	%REC	1	9/27/2022 07:00
Surr: Tetrachloro-m-xylene	70.1			45-124	%REC	1	9/27/2022 07:00
MOISTURE							
			Method: SW3550C				
Moisture	17		0.10	0.10	% of sample	1	9/22/2022 14:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 28-Sep-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-SBC3-631-630-220921
Collection Date: 9/21/2022 10:53 AM

Work Order: 22092111
Lab ID: 22092111-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			Method: SW8082A		Prep: SW3550 / 9/23/22		Analyst: RM
Aroclor 1016	U		39	99	µg/Kg-dry	1	9/27/2022 04:14
Aroclor 1221	U		39	99	µg/Kg-dry	1	9/27/2022 04:14
Aroclor 1232	U		39	99	µg/Kg-dry	1	9/27/2022 04:14
Aroclor 1242	U		39	99	µg/Kg-dry	1	9/27/2022 04:14
Aroclor 1248	U		39	99	µg/Kg-dry	1	9/27/2022 04:14
Aroclor 1254	26,000		540	2,000	µg/Kg-dry	20	9/27/2022 20:03
Aroclor 1260	U		27	99	µg/Kg-dry	1	9/27/2022 04:14
Aroclor 1262	U		27	99	µg/Kg-dry	1	9/27/2022 04:14
Aroclor 1268	U		27	99	µg/Kg-dry	1	9/27/2022 04:14
PCBs, Total	27,000		540	2,000	µg/Kg-dry	20	9/27/2022 20:03
Surr: Decachlorobiphenyl	110			40-140	%REC	1	9/27/2022 04:14
Surr: Tetrachloro-m-xylene	80.1			45-124	%REC	1	9/27/2022 04:14
MOISTURE							
			Method: SW3550C				
Moisture	18		0.10	0.10	% of sample	1	9/22/2022 14:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 28-Sep-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-SBC3-630-629-220921
Collection Date: 9/21/2022 10:55 AM

Work Order: 22092111
Lab ID: 22092111-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			Method: SW8082A		Prep: SW3550 / 9/23/22		Analyst: RM
Aroclor 1016	U		39	98	µg/Kg-dry	1	9/27/2022 07:13
Aroclor 1221	U		39	98	µg/Kg-dry	1	9/27/2022 07:13
Aroclor 1232	U		39	98	µg/Kg-dry	1	9/27/2022 07:13
Aroclor 1242	U		39	98	µg/Kg-dry	1	9/27/2022 07:13
Aroclor 1248	U		39	98	µg/Kg-dry	1	9/27/2022 07:13
Aroclor 1254	17,000		270	980	µg/Kg-dry	10	9/27/2022 18:46
Aroclor 1260	U		27	98	µg/Kg-dry	1	9/27/2022 07:13
Aroclor 1262	U		27	98	µg/Kg-dry	1	9/27/2022 07:13
Aroclor 1268	U		27	98	µg/Kg-dry	1	9/27/2022 07:13
PCBs, Total	17,000		270	980	µg/Kg-dry	10	9/27/2022 18:46
Surr: Decachlorobiphenyl	60.1			40-140	%REC	1	9/27/2022 07:13
Surr: Tetrachloro-m-xylene	50.1			45-124	%REC	1	9/27/2022 07:13
MOISTURE							
			Method: SW3550C				
Moisture	17		0.10	0.10	% of sample	1	9/22/2022 14:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 28-Sep-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-SB-DUP01-220921
Collection Date: 9/21/2022 10:32 AM

Work Order: 22092111
Lab ID: 22092111-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			Method: SW8082A		Prep: SW3550 / 9/23/22		Analyst: RM
Aroclor 1016	U		39	98	µg/Kg-dry	1	9/27/2022 07:26
Aroclor 1221	U		39	98	µg/Kg-dry	1	9/27/2022 07:26
Aroclor 1232	U		39	98	µg/Kg-dry	1	9/27/2022 07:26
Aroclor 1242	U		39	98	µg/Kg-dry	1	9/27/2022 07:26
Aroclor 1248	U		39	98	µg/Kg-dry	1	9/27/2022 07:26
Aroclor 1254	18,000		270	980	µg/Kg-dry	10	9/27/2022 18:59
Aroclor 1260	U		27	98	µg/Kg-dry	1	9/27/2022 07:26
Aroclor 1262	U		27	98	µg/Kg-dry	1	9/27/2022 07:26
Aroclor 1268	U		27	98	µg/Kg-dry	1	9/27/2022 07:26
PCBs, Total	18,000		270	980	µg/Kg-dry	10	9/27/2022 18:59
Surr: Decachlorobiphenyl	100			40-140	%REC	1	9/27/2022 07:26
Surr: Tetrachloro-m-xylene	90.1			45-124	%REC	1	9/27/2022 07:26
MOISTURE							
			Method: SW3550C				
Moisture	17		0.10	0.10	% of sample	1	9/22/2022 14:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 28-Sep-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-SB-DUP02-220921
Collection Date: 9/21/2022 10:51 AM

Work Order: 22092111
Lab ID: 22092111-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			Method: SW8082A		Prep: SW3550 / 9/23/22		Analyst: RM
Aroclor 1016	U		39	100	µg/Kg-dry	1	9/27/2022 07:39
Aroclor 1221	U		39	100	µg/Kg-dry	1	9/27/2022 07:39
Aroclor 1232	U		39	100	µg/Kg-dry	1	9/27/2022 07:39
Aroclor 1242	U		39	100	µg/Kg-dry	1	9/27/2022 07:39
Aroclor 1248	U		39	100	µg/Kg-dry	1	9/27/2022 07:39
Aroclor 1254	17,000		270	1,000	µg/Kg-dry	10	9/27/2022 19:12
Aroclor 1260	U		27	100	µg/Kg-dry	1	9/27/2022 07:39
Aroclor 1262	U		27	100	µg/Kg-dry	1	9/27/2022 07:39
Aroclor 1268	U		27	100	µg/Kg-dry	1	9/27/2022 07:39
PCBs, Total	17,000		270	1,000	µg/Kg-dry	10	9/27/2022 19:12
Surr: Decachlorobiphenyl	60.1			40-140	%REC	1	9/27/2022 07:39
Surr: Tetrachloro-m-xylene	50.1			45-124	%REC	1	9/27/2022 07:39
MOISTURE							
			Method: SW3550C				
Moisture	17		0.10	0.10	% of sample	1	9/22/2022 14:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Tetra Tech EM Inc.
Work Order: 22092111
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **203699** Instrument ID **GC14** Method: **SW8082A**

MBLK Sample ID: PBLKS1-203699-203699				Units: µg/Kg		Analysis Date: 9/27/2022 03:23 AM				
Client ID:		Run ID: GC14_220926A		SeqNo: 8838541		Prep Date: 9/23/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	83								
Aroclor 1221	U	83								
Aroclor 1232	U	83								
Aroclor 1242	U	83								
Aroclor 1248	U	83								
Aroclor 1254	U	83								
Aroclor 1260	U	83								
Aroclor 1262	U	83								
Aroclor 1268	U	83								
PCBs, Total	U	83								
Surr: Decachlorobiphenyl	23.33	0	33.3	0	70.1	40-140	0			
Surr: Tetrachloro-m-xylene	33.33	0	33.3	0	100	45-124	0			

LCS Sample ID: PLCSS1-203699-203699				Units: µg/Kg		Analysis Date: 9/27/2022 03:36 AM				
Client ID:		Run ID: GC14_220926A		SeqNo: 8838542		Prep Date: 9/23/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	813.3	83	833	0	97.6	50-130	0			
Aroclor 1260	798	83	833	0	95.8	50-130	0			
Surr: Decachlorobiphenyl	23.33	0	33.3	0	70.1	40-140	0			
Surr: Tetrachloro-m-xylene	30	0	33.3	0	90.1	45-124	0			

MS Sample ID: 22092111-11A MS				Units: µg/Kg		Analysis Date: 9/27/2022 03:48 AM				
Client ID: CM-SBC3-631-630-220921		Run ID: GC14_220926A		SeqNo: 8838543		Prep Date: 9/23/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	5582	79	791	0	706	40-140	0			SE
Aroclor 1260	5988	79	791	0	757	40-140	0			SE
Surr: Decachlorobiphenyl	25.32	0	31.62	0	80.1	40-140	0			
Surr: Tetrachloro-m-xylene	22.16	0	31.62	0	70.1	45-124	0			

MSD Sample ID: 22092111-11A MSD				Units: µg/Kg		Analysis Date: 9/27/2022 04:01 AM				
Client ID: CM-SBC3-631-630-220921		Run ID: GC14_220926A		SeqNo: 8838544		Prep Date: 9/23/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	8576	83	826.7	0	1040	40-140	5582	42.3	50	SE
Aroclor 1260	9564	83	826.7	0	1160	40-140	5988	46	50	SE
Surr: Decachlorobiphenyl	29.77	0	33.05	0	90.1	40-140	25.32	16.2	50	
Surr: Tetrachloro-m-xylene	26.47	0	33.05	0	80.1	45-124	22.16	17.7	50	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22092111
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **203699** Instrument ID **GC14** Method: **SW8082A**

The following samples were analyzed in this batch:

22092111-01A	22092111-02A	22092111-03A
22092111-04A	22092111-05A	22092111-06A
22092111-07A	22092111-08A	22092111-09A
22092111-10A	22092111-11A	22092111-12A
22092111-13A	22092111-14A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
 Work Order: 22092111
 Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **R354090** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R354090				Units: % of sample		Analysis Date: 9/22/2022 02:13 PM		
Client ID:		Run ID: MOIST_220922C				SeqNo: 8827095		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS		Sample ID: LCS-R354090				Units: % of sample		Analysis Date: 9/22/2022 02:13 PM		
Client ID:		Run ID: MOIST_220922C				SeqNo: 8827094		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.10	100	0	100	98-102	0			

DUP		Sample ID: 22091983-03B DUP				Units: % of sample		Analysis Date: 9/22/2022 02:13 PM		
Client ID:		Run ID: MOIST_220922C				SeqNo: 8827074		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	22.41	0.10	0	0	0	0-0	22.59	0.8	10	

DUP		Sample ID: 22092111-11A DUP				Units: % of sample		Analysis Date: 9/22/2022 02:13 PM		
Client ID: CM-SBC3-631-630-220921		Run ID: MOIST_220922C				SeqNo: 8827088		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	18.25	0.10	0	0	0	0-0	17.84	2.27	10	

The following samples were analyzed in this batch:

22092111-01A	22092111-02A	22092111-03A
22092111-04A	22092111-05A	22092111-06A
22092111-07A	22092111-08A	22092111-09A
22092111-10A	22092111-11A	22092111-12A
22092111-13A	22092111-14A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Chain of Custody Form

Page 1 of 2

✓ ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Customer Information		Project Information					Parameter/Method Request for Analysis									
Purchase Order		Project Name	Chudnow Metals				A	PCBs								
Quote #		Project Number	103x903100320001CJ106				B									
Company Name	Tetra Tech	Bill To Company	Tetra Tech				C									
Send Report To	Rachel Houle	Invoice Attn.	Accounts Payable				D									
Address	1 S Wacker Drive	Address	1 S Wacker Drive				E									
	37th Floor		37th Floor				F									
City/State/Zip	Chicago, IL	City/State/Zip	Chicago, IL				G									
Phone	708-955-4569	Phone	--				H									
Fax	--	Fax	--				I									
e-Mail Address	rachel.houle@tetrattech.com					J										

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	J	Hold
1	CM-SBA2-631-630-220921	9/21/2022	9:45	Soil	8	1	X						
2	CM-SBA2-630-629-220921	9/21/2022	9:47	Soil	8	1	X						
3	CM-SBC2-631.5-631-220921	9/21/2022	10:10	Soil	8	1	X						
4	CM-SBC2-631-630-220921	9/21/2022	10:12	Soil	8	1	X						
5	CM-SBC2-630-629-220921	9/21/2022	10:14	Soil	8	1	X						
6	CM-SBD1-632-631-220921	9/21/2022	10:28	Soil	8	1	X						
7	CM-SBD1-631-630-220921	9/21/2022	10:30	Soil	8	1	X						
8	CM-SBD1-630-629-220921	9/21/2022	10:34	Soil	8	1	X						
9	CM-SBC3-633-632-220921	9/21/2022	10:47	Soil	8	1	X						
10	CM-SBC3-632-631-220921	9/21/2022	10:49	Soil	8	1	X						

Sampler(s): Please Print & Sign		Shipment Method:		Turnaround Time: (Business Days)				Results Due Date:	
CARLOS MENDO SALAZAR		FEDEX		<input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input checked="" type="checkbox"/> 3 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> 1 BD					
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Notes:			
CARLOS MENDO SALAZAR	9/21/22	1300							
Relinquished by:	Date:	Time:	Received by (Laboratory):	Date:	Time:	Cooler Temp °C	pH Verified	QC Package: (Check Box Below)	
	9-22-22	0900						<input type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Raw Data <input type="checkbox"/> TRRP LRC <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV: SW846 Methods/CLP like <input type="checkbox"/> Other:	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):						
	9-22-22	1130							



Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035A

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.



7

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

22092111

TETRATECH-EM-CHI: Tetra Tech EM Inc.

Project: Rush PCBs

A standard 1D barcode with vertical black bars of varying widths on a white background, located at the bottom of the label.

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035A

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

Sample Receipt Checklist

Client Name: **TETRATECH-EM-CHI**

Date/Time Received: **22-Sep-22 09:00**

Work Order: **22092111**

Received by: **JD**

Checklist completed by **Jason Delinger**

22-Sep-22

Reviewed by: **Chad Whelton**

22-Sep-22

eSignature

Date

eSignature

Date

Matrices: **soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

3.4/4.4 c

ir3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

9/22/2022 10:59:38 AM

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

Login Notes: **SAMPLE 11A MS/MSD MARKED ON BOTTLE UNMARKED ON COC**

Client Contacted:

Date Contacted:

Person Contacted:

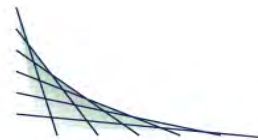
Contacted By:

Regarding:

Comments:

CorrectiveAction:

ATTACHMENT 2
WASTE CHARACTERIZATION AND BACKFILL SAMPLING ANALYTICAL REPORTS -
172047, 172490, 172899, 173144, 173145, 173328, 173419



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.



ANALYTICAL REPORT

TETRA TECH
 RACHEL HOULE
 1 S WACKER DRIVE
 SUITE 3700
 CHICAGO, IL 60606
 Copy: R5 START LIST

Project Name: CHUDNOW RV
 Project Phase: MILWAUKEE, WI
 Contract #: 3509
 Project #: 103X903100320001DH108
 Folder #: 172047
 Purchase Order #: 1168710 / CT-46

Page 1 of 12
 Arrival Temperature: 4.9
 Report Date: 9/21/2022
 Date Received: 9/9/2022
 Reprint Date: 9/21/2022

CT LAB#: 1232148

Sample Description: CM-WC-SD-E3-220908

Client Sample #:

Sampled: 9/8/2022 10:08

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results												
TCLP Arsenic	0.014	mg/L	0.0077	0.02	0.04	0.04	1.00	J	9/13/2022 08:15	9/14/22 12:31	NAH	EPA 6010C
TCLP Barium	2.3	mg/L	0.00071	0.002	0.004	0.004	1.00		9/13/2022 08:15	9/14/22 12:31	NAH	EPA 6010C
TCLP Cadmium	0.16	mg/L	0.00041	0.001	0.002	0.002	1.00		9/13/2022 08:15	9/14/22 12:31	NAH	EPA 6010C
TCLP Chromium	0.0020	mg/L	0.0011	0.0025	0.005	0.005	1.00	J	9/13/2022 08:15	9/14/22 12:31	NAH	EPA 6010C
TCLP Lead	1.7	mg/L	0.0014	0.002	0.004	0.004	1.00		9/13/2022 08:15	9/14/22 12:31	NAH	EPA 6010C
TCLP Selenium	<0.01	mg/L	0.01	0.02	0.04	0.04	1.00	U	9/13/2022 08:15	9/14/22 12:31	NAH	EPA 6010C
TCLP Silver	<0.0011	mg/L	0.0011	0.0025	0.005	0.005	1.00	U	9/13/2022 08:15	9/14/22 12:31	NAH	EPA 6010C
TCLP Mercury	<0.00002	mg/L	0.00002	0.00008	0.00012	0.00012	1.00	U	9/13/2022 08:15	9/14/22 10:51	MDS	EPA 7470A
Organic Results												
TCLP 1,1-Dichloroethene	<0.049	mg/L	0.049	0.10	0.20	0.20	100.00	U	9/14/2022 08:30	9/14/22 22:31	DGS	EPA 8260C
TCLP 1,2-Dichloroethane	<0.069	mg/L	0.069	0.20	0.21	0.21	100.00	U	9/14/2022 08:30	9/14/22 22:31	DGS	EPA 8260C
TCLP 2-Butanone	<0.29	mg/L	0.29	1.0	1.1	1.1	100.00	U	9/14/2022 08:30	9/14/22 22:31	DGS	EPA 8260C
TCLP Benzene	<0.047	mg/L	0.047	0.10	0.20	0.20	100.00	U	9/14/2022 08:30	9/14/22 22:31	DGS	EPA 8260C
TCLP Carbon tetrachloride	<0.037	mg/L	0.037	0.10	0.12	0.12	100.00	U	9/14/2022 08:30	9/14/22 22:31	DGS	EPA 8260C
TCLP Chlorobenzene	<0.037	mg/L	0.037	0.10	0.12	0.12	100.00	U	9/14/2022 08:30	9/14/22 22:31	DGS	EPA 8260C
TCLP Chloroform	<0.046	mg/L	0.046	0.10	0.14	0.14	100.00	U	9/14/2022 08:30	9/14/22 22:31	DGS	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1232148

Sample Description: CM-WC-SD-E3-220908

Client Sample #:

Sampled: 9/8/2022 10:08

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TCLP Tetrachloroethene	<0.054	mg/L	0.054	0.10	0.20	0.20	100.00	U	9/14/2022 08:30	9/14/22 22:31	DGS	EPA 8260C
TCLP Trichloroethene	<0.039	mg/L	0.039	0.10	0.12	0.12	100.00	U	9/14/2022 08:30	9/14/22 22:31	DGS	EPA 8260C
TCLP Vinyl chloride	<0.012	mg/L	0.012	0.025	0.050	0.050	100.00	U	9/14/2022 08:30	9/14/22 22:31	DGS	EPA 8260C
TCLP 1,2 Dichloroethane-d4	99.0	% Recovery	81			118	1.00		9/14/2022 08:30	9/14/22 22:31	DGS	EPA 8260C
TCLP Bromofluorobenzene	103	% Recovery	85			114	1.00		9/14/2022 08:30	9/14/22 22:31	DGS	EPA 8260C
TCLP d8-Toluene	100	% Recovery	89			112	1.00		9/14/2022 08:30	9/14/22 22:31	DGS	EPA 8260C
TCLP Dibromofluoromethane	102	% Recovery	80			119	1.00		9/14/2022 08:30	9/14/22 22:31	DGS	EPA 8260C
TCLP 1,4-Dichlorobenzene	<0.0027	mg/L	0.0027	0.010	0.020	0.020	1.00	U	9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP 2,4,5-Trichlorophenol	<0.019	mg/L	0.019	0.050	0.10	0.10	1.00	U	9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP 2,4,6-Trichlorophenol	<0.017	mg/L	0.017	0.050	0.10	0.10	1.00	U	9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP 2,4-Dinitrotoluene	<0.0025	mg/L	0.0025	0.010	0.020	0.020	1.00	U	9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP 2-Methylphenol	<0.015	mg/L	0.015	0.050	0.10	0.10	1.00	U	9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP 3 & 4-Methylphenol	<0.034	mg/L	0.034	0.090	0.18	0.18	1.00	U	9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP Hexachlorobenzene	<0.0029	mg/L	0.0029	0.010	0.020	0.020	1.00	U	9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP Hexachlorobutadiene	<0.0029	mg/L	0.0029	0.010	0.020	0.020	1.00	U	9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP Hexachloroethane	<0.0031	mg/L	0.0031	0.010	0.020	0.020	1.00	U	9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP Nitrobenzene	<0.0030	mg/L	0.0030	0.010	0.020	0.020	1.00	U	9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP Pentachlorophenol	<0.016	mg/L	0.016	0.050	0.10	0.10	1.00	U	9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP Pyridine	<0.010	mg/L	0.010	0.020	0.040	0.040	1.00	U Y	9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP Surr: 2,4,6-Tribromophenol	56.6	% Recovery	43			140	1.00		9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP Surr: 2-Fluorobiphenyl	50.5	% Recovery	44			119	1.00		9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP Surr: 2-Fluorophenol	35.1	% Recovery	19			119	1.00		9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP Surr: Nitrobenzene-d5	52.2	% Recovery	44			120	1.00		9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP Surr: Phenol-d5	30.0	% Recovery	1			114	1.00		9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D
TCLP Surr: Terphenyl-d14	62.1	% Recovery	50			134	1.00		9/13/2022 08:15	9/14/22 16:34	ALD	EPA 8270D

CT LAB#: 1232149

Sample Description: CM-WC-SD-E3-220908

Client Sample #:

Sampled: 9/8/2022 10:08

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	91.4	%	0.1	0.1	0.1	0.1	1.00			9/12/22 13:29	BMM	EPA 8000C
Free Liquids	ABSENT						1.00			9/9/22 12:37	HLB	EPA 9095B ^
pH	7.86	S.U.	0.1	0.1	0.1	0.1	1.00			9/9/22 15:00	ATJ	EPA 9045D ^
Percent Moisture	8.6	%	0.1	0.1	0.1	0.1	1.00			9/12/22 13:29	BMM	ASTM D2974-87
Metals Results												
Mercury	3.3	mg/kg	0.062	0.15	0.19	0.19	20.00	M	9/13/2022 12:00	9/15/22 09:44	MDS	EPA 7471B
Aluminum	6900	mg/kg	2.3	5.6	22	22	1.00	Y,M	9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Antimony	3.2	mg/kg	0.17	0.33	1.1	1.1	1.00	Y	9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Arsenic	19	mg/kg	0.21	0.56	1.1	1.1	1.00	Y,M	9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Barium	160	mg/kg	0.058	0.22	0.56	0.56	1.00		9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Beryllium	<0.020	mg/kg	0.020	0.056	0.22	0.22	1.00	U Y	9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Cadmium	9.1	mg/kg	0.030	0.11	0.28	0.28	1.00		9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Calcium	92000	mg/kg	32	89	280	280	10.00	M,Y	9/12/2022 10:05	9/13/22 10:25	NAH	EPA 6010D
Chromium	50	mg/kg	0.079	0.22	0.56	0.56	1.00	Y	9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Cobalt	6.0	mg/kg	0.050	0.11	0.56	0.56	1.00	M	9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Copper	1500	mg/kg	0.15	0.33	0.56	0.56	1.00	Y,M	9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Iron	48000	mg/kg	33	84	170	170	10.00	M,Y	9/12/2022 10:05	9/13/22 10:25	NAH	EPA 6010D
Lead	1100	mg/kg	0.087	0.22	0.56	0.56	1.00	Y,M	9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Magnesium	48000	mg/kg	41	110	280	280	10.00	M,Y	9/12/2022 10:05	9/13/22 10:25	NAH	EPA 6010D
Manganese	660	mg/kg	0.078	0.22	0.56	0.56	1.00		9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Nickel	76	mg/kg	0.067	0.22	0.56	0.56	1.00	Y,M	9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Selenium	<0.28	mg/kg	0.28	0.56	1.1	1.1	1.00	U	9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Silver	1.8	mg/kg	0.20	0.56	1.1	1.1	1.00		9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Thallium	1.0	mg/kg	0.25	0.56	1.1	1.1	1.00	J M	9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Vanadium	12	mg/kg	0.057	0.22	0.56	0.56	1.00		9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D
Zinc	1300	mg/kg	0.074	0.22	0.56	0.56	1.00	Y	9/12/2022 10:05	9/12/22 16:28	NAH	EPA 6010D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1232149

Sample Description: CM-WC-SD-E3-220908

Client Sample #:

Sampled: 9/8/2022 10:08

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Potassium	424	mg/kg	38	84	280	280	1.00	Y	9/12/2022 10:05	9/12/22	16:28 NAH	EPA 6010D
Sodium	163	mg/kg	36	110	280	280	1.00	J	9/12/2022 10:05	9/12/22	16:28 NAH	EPA 6010D
Organic Results												
Gasoline Range Organics	2.0	mg/kg	0.94	2.3	4.7	4.7	1.00	J L	9/9/2022 10:40	9/14/22	11:53 RLD	WDNR GRO
1,1'-Biphenyl	<44	ug/kg	44	110	220	220	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
1,2,4,5-Tetrachlorobenzene	<110	ug/kg	110	220	440	440	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
2,4,5-Trichlorophenol	<220	ug/kg	220	550	1100	1100	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
2,4,6-Trichlorophenol	<220	ug/kg	220	550	1100	1100	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
2,4-Dichlorophenol	<250	ug/kg	250	550	1100	1100	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
2,4-Dimethylphenol	<160	ug/kg	160	550	1100	1100	1.00	U Q,M,Y	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
2,4-Dinitrophenol	<220	ug/kg	220	550	1100	1100	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
2,4-Dinitrotoluene	<55	ug/kg	55	110	220	220	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
2,6-Dinitrotoluene	<55	ug/kg	55	110	220	220	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
2-Chloronaphthalene	<44	ug/kg	44	110	220	220	1.00	U Y	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
2-Chlorophenol	<160	ug/kg	160	550	1100	1100	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
2-Methylnaphthalene	137	ug/kg	55	110	220	220	1.00	J	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
2-Methylphenol	<220	ug/kg	220	550	1100	1100	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
2-Nitroaniline	<88	ug/kg	88	220	440	440	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
2-Nitrophenol	<330	ug/kg	330	550	1100	1100	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
3 & 4-Methylphenol	<330	ug/kg	330	1100	2200	2200	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
3,3'-Dichlorobenzidine	<88	ug/kg	88	220	440	440	1.00	U M	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
3-Nitroaniline	<44	ug/kg	44	110	220	220	1.00	U M	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
4,6-Dinitro-2-methylphenol	<220	ug/kg	220	550	1100	1100	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
4-Bromophenyl-phenyl ether	<55	ug/kg	55	110	220	220	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
4-Chloro-3-methylphenol	<220	ug/kg	220	550	1100	1100	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
4-Chloroaniline	<55	ug/kg	55	220	440	440	1.00	U M	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D
4-Chlorophenyl-phenyl ether	<55	ug/kg	55	110	220	220	1.00	U	9/9/2021 13:30	9/14/22	13:22 ALD	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1232149

Sample Description: CM-WC-SD-E3-220908

Client Sample #:

Sampled: 9/8/2022 10:08

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Nitroaniline	<44	ug/kg	44	110	220	220	1.00	U M	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
4-Nitrophenol	<330	ug/kg	330	550	1100	1100	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Acenaphthene	<77	ug/kg	77	220	440	440	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Acenaphthylene	<55	ug/kg	55	110	220	220	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Acetophenone	<55	ug/kg	55	110	220	220	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Anthracene	223	ug/kg	44	110	220	220	1.00		9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Atrazine	<44	ug/kg	44	110	220	220	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Benzaldehyde	110	ug/kg	55	110	220	220	1.00	J	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Benzo(a)anthracene	1060	ug/kg	44	110	220	220	1.00		9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Benzo(a)pyrene	1120	ug/kg	440	1100	2200	2200	10.00	J	9/9/2021 13:30	9/14/22 12:12	ALD	EPA 8270D
Benzo(b)fluoranthene	2060	ug/kg	550	1100	2200	2200	10.00	J	9/9/2021 13:30	9/14/22 12:12	ALD	EPA 8270D
Benzo(g,h,i)perylene	1200	ug/kg	440	1100	2200	2200	10.00	J	9/9/2021 13:30	9/14/22 12:12	ALD	EPA 8270D
Benzo(k)fluoranthene	817	ug/kg	550	1100	2200	2200	10.00	J	9/9/2021 13:30	9/14/22 12:12	ALD	EPA 8270D
Bis(2-chloroethoxy)methane	<44	ug/kg	44	110	220	220	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Bis(2-chloroethyl)ether	<55	ug/kg	55	110	220	220	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Bis(2-chloroisopropyl)ether	<55	ug/kg	55	110	220	220	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Bis(2-ethylhexyl)phthalate	284	ug/kg	55	110	220	220	1.00	Y	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Butylbenzylphthalate	197	ug/kg	88	220	440	440	1.00	J	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Caprolactam	<110	ug/kg	110	220	440	440	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Carbazole	118	ug/kg	66	220	440	440	1.00	J	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Chrysene	1070	ug/kg	44	110	220	220	1.00		9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Di-n-butylphthalate	139	ug/kg	110	220	440	440	1.00	J M,Y	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Di-n-octylphthalate	<44	ug/kg	44	110	220	220	1.00	U M,Y	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Dibenzo(a,h)anthracene	679	ug/kg	550	1100	2200	2200	10.00	J	9/9/2021 13:30	9/14/22 12:12	ALD	EPA 8270D
Dibenzofuran	55.6	ug/kg	44	110	220	220	1.00	J	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Diethylphthalate	<44	ug/kg	44	110	220	220	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Dimethylphthalate	<55	ug/kg	55	110	220	220	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Fluoranthene	1810	ug/kg	44	110	220	220	1.00		9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1232149

Sample Description: CM-WC-SD-E3-220908

Client Sample #:

Sampled: 9/8/2022 10:08

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Fluorene	58.5	ug/kg	55	110	220	220	1.00	J	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Hexachlorobenzene	<55	ug/kg	55	110	220	220	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Hexachlorobutadiene	<55	ug/kg	55	110	220	220	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Hexachlorocyclopentadiene	<55	ug/kg	55	110	220	220	1.00	U M,Y	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Hexachloroethane	<44	ug/kg	44	110	220	220	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Indeno(1,2,3-cd)pyrene	1750	ug/kg	440	1100	2200	2200	10.00	J	9/9/2021 13:30	9/14/22 12:12	ALD	EPA 8270D
Isophorone	<44	ug/kg	44	110	220	220	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
N-Nitroso-di-n-propylamine	<55	ug/kg	55	110	220	220	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
N-Nitrosodiphenylamine & Diphn	<110	ug/kg	110	220	440	440	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Naphthalene	153	ug/kg	44	110	220	220	1.00	J	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Nitrobenzene	<44	ug/kg	44	110	220	220	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Pentachlorophenol	<220	ug/kg	220	550	1100	1100	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Phenanthrene	965	ug/kg	44	110	220	220	1.00		9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Phenol	<220	ug/kg	220	550	1100	1100	1.00	U	9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Pyrene	1940	ug/kg	55	110	220	220	1.00		9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Surr: 2,4,6-Tribromophenol	61.5	% Recovery	39			132	1.00		9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Surr: 2-Fluorobiphenyl	71.9	% Recovery	44			115	1.00		9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Surr: 2-Fluorophenol	56.7	% Recovery	35			115	1.00		9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Surr: Nitrobenzene-d5	67.8	% Recovery	37			122	1.00		9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Surr: Phenol-d5	65.1	% Recovery	33			122	1.00		9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Surr: Terphenyl-d14	91.1	% Recovery	54			127	1.00		9/9/2021 13:30	9/14/22 13:22	ALD	EPA 8270D
Diesel Range Organics	90.9	mg/kg	1.6	1.3	2.5	1.6	1.00	L	9/13/2022 14:00	9/14/22 13:11	AJZ	WDNR DRO
Aroclor-1016	<360	ug/kg	360	860	1300	1300	20.00	U Y,M	9/9/2022 13:30	9/13/22 11:55	AJZ	EPA 8082A
Aroclor-1221	<600	ug/kg	600	1300	1700	1700	20.00	U	9/9/2022 13:30	9/13/22 11:55	AJZ	EPA 8082A
Aroclor-1232	<240	ug/kg	240	860	1300	1300	20.00	U	9/9/2022 13:30	9/13/22 11:55	AJZ	EPA 8082A
Aroclor-1242	<210	ug/kg	210	860	1300	1300	20.00	U	9/9/2022 13:30	9/13/22 11:55	AJZ	EPA 8082A
Aroclor-1248	<300	ug/kg	300	860	1300	1300	20.00	U	9/9/2022 13:30	9/13/22 11:55	AJZ	EPA 8082A
Aroclor-1254	7040	ug/kg	390	860	1300	1300	20.00		9/9/2022 13:30	9/13/22 11:55	AJZ	EPA 8082A

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1232149

Sample Description: CM-WC-SD-E3-220908

Client Sample #:

Sampled: 9/8/2022 10:08

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Aroclor-1260	<240	ug/kg	240	860	1300	1300	20.00	U M,Y	9/9/2022 13:30	9/13/22	11:55 AJZ	EPA 8082A
Aroclor-1262	15900	ug/kg	430	1700	2600	2600	40.00		9/9/2022 13:30	9/13/22	15:11 AJZ	EPA 8082A
Aroclor-1268	<360	ug/kg	360	860	1300	1300	20.00	U	9/9/2022 13:30	9/13/22	11:55 AJZ	EPA 8082A
PCB, Total	22900	ug/kg	600	1300	1700	1700	20.00		9/9/2022 13:30	9/13/22	11:55 AJZ	EPA 8082A
Surr: 2,4,5,6-TCMX	110	% Recovery	54			135	20.00		9/9/2022 13:30	9/13/22	11:55 AJZ	EPA 8082A
Surr: DCBP	117	% Recovery	54			141	20.00		9/9/2022 13:30	9/13/22	11:55 AJZ	EPA 8082A
1,1,1-Trichloroethane	<28	ug/kg	28	94	190	190	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<23	ug/kg	23	47	94	94	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
1,1,2-Trichloroethane	<25	ug/kg	25	94	190	190	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
1,1-Dichloroethane	<25	ug/kg	25	94	190	190	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
1,1-Dichloroethene	<22	ug/kg	22	47	94	94	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
1,2,3-Trichlorobenzene	<19	ug/kg	19	47	94	94	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
1,2,4-Trichlorobenzene	<12	ug/kg	12	47	94	94	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<14	ug/kg	14	47	94	94	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
1,2-Dibromoethane	<17	ug/kg	17	47	94	94	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
1,2-Dichlorobenzene	<14	ug/kg	14	47	94	94	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
1,2-Dichloroethane	<21	ug/kg	21	47	94	94	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
1,2-Dichloropropane	<24	ug/kg	24	94	190	190	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
1,3-Dichlorobenzene	<13	ug/kg	13	47	94	94	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
1,4-Dichlorobenzene	<14	ug/kg	14	47	94	94	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
112Trichloro122trifluoroethane	<58	ug/kg	58	190	370	370	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
2-Butanone	<260	ug/kg	260	940	1900	1900	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
2-Hexanone	<140	ug/kg	140	470	940	940	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
4-Methyl-2-pentanone	<280	ug/kg	280	940	1900	1900	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
Acetone	<230	ug/kg	230	470	940	940	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
Benzene	<26	ug/kg	26	94	190	190	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
Bromochloromethane	<29	ug/kg	29	94	190	190	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C
Bromodichloromethane	<22	ug/kg	22	47	94	94	1.00	U	9/9/2022 10:40	9/9/22	11:15 RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1232149

Sample Description: CM-WC-SD-E3-220908

Client Sample #:

Sampled: 9/8/2022 10:08

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromoform	<14	ug/kg	14	47	94	94	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Bromomethane	<84	ug/kg	84	190	370	370	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Carbon disulfide	<55	ug/kg	55	190	370	370	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Carbon tetrachloride	<26	ug/kg	26	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Chlorobenzene	<12	ug/kg	12	47	94	94	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Chloroethane	<80	ug/kg	80	190	370	370	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Chloroform	<30	ug/kg	30	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Chloromethane	<31	ug/kg	31	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
cis-1,2-Dichloroethene	<28	ug/kg	28	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
cis-1,3-Dichloropropene	<27	ug/kg	27	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Cyclohexane	<29	ug/kg	29	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Dibromochloromethane	<14	ug/kg	14	47	94	94	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Dichlorodifluoromethane	<29	ug/kg	29	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Ethylbenzene	<12	ug/kg	12	47	94	94	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Isopropylbenzene	<12	ug/kg	12	47	94	94	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
m & p-Xylene	<23	ug/kg	23	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Methyl acetate	<37	ug/kg	37	94	190	190	1.00	U Z,M	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Methyl tert-butyl ether	<22	ug/kg	22	47	94	94	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Methylcyclohexane	<27	ug/kg	27	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Methylene chloride	<39	ug/kg	39	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
o-Xylene	<12	ug/kg	12	47	94	94	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Styrene	<19	ug/kg	19	47	94	94	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Tetrachloroethene	54.7	ug/kg	32	94	190	190	1.00	J	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Toluene	<26	ug/kg	26	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
trans-1,2-Dichloroethene	<27	ug/kg	27	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
trans-1,3-Dichloropropene	<24	ug/kg	24	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Trichloroethene	<28	ug/kg	28	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Trichlorofluoromethane	<28	ug/kg	28	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1232149	Sample Description: CM-WC-SD-E3-220908	Client Sample #:	Sampled: 9/8/2022 10:08
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl chloride	<28	ug/kg	28	94	190	190	1.00	U	9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
1,2 Dichloroethane-d4	98.0	% Recovery	71			136	1.00		9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
d8-Toluene	98.0	% Recovery	85			116	1.00		9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C
Dibromofluoromethane	97.0	% Recovery	78			119	1.00		9/9/2022 10:40	9/9/22 11:15	RLD	EPA 8260C

Sub Lab Results

Cyanide	ATTACHED	mg/L					1.00			9/21/22 00:00	SUB	
Sulfide	ATTACHED						1.00			9/21/22 00:00	SUB	9030

CT LAB#: 1232150	Sample Description: TRIP BLANK	Client Sample #:	Sampled: 9/8/2022
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1,1-Trichloroethane	<0.38	ug/L	0.38	1.0	1.2	1.2	1.00	U		9/12/22 14:07	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.36	ug/L	0.36	1.0	1.1	1.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.27	ug/L	0.27	1.0	1.1	1.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
1,1-Dichloroethane	<0.28	ug/L	0.28	1.0	1.1	1.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
1,1-Dichloroethene	<0.49	ug/L	0.49	1.0	2.0	2.0	1.00	U		9/12/22 14:07	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.43	ug/L	0.43	1.0	2.0	2.0	1.00	U		9/12/22 14:07	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1.0	2.0	2.0	1.00	U		9/12/22 14:07	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.35	ug/L	0.35	1.0	2.0	2.0	1.00	U		9/12/22 14:07	RLD	EPA 8260C
1,2-Dibromoethane	<0.33	ug/L	0.33	1.0	1.1	1.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.35	ug/L	0.35	1.0	1.1	1.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
1,2-Dichloroethane	<0.69	ug/L	0.69	2.0	2.1	2.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
1,2-Dichloropropane	<0.37	ug/L	0.37	1.0	1.2	1.2	1.00	U		9/12/22 14:07	RLD	EPA 8260C

Organic Results

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1232150

Sample Description: TRIP BLANK

Client Sample #:

Sampled: 9/8/2022

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3-Dichlorobenzene	<0.30	ug/L	0.30	1.0	1.1	1.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.33	ug/L	0.33	1.0	1.1	1.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1.5	ug/L	1.5	4.0	4.5	4.5	1.00	U		9/12/22 14:07	RLD	EPA 8260C
2-Butanone	<2.9	ug/L	2.9	10	11	11	1.00	U		9/12/22 14:07	RLD	EPA 8260C
2-Hexanone	<3.3	ug/L	3.3	10	11	11	1.00	U		9/12/22 14:07	RLD	EPA 8260C
4-Methyl-2-pentanone	<3.7	ug/L	3.7	10	12	12	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Acetone	<4.1	ug/L	4.1	10	20	20	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Benzene	<0.47	ug/L	0.47	1.0	2.0	2.0	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Bromochloromethane	<0.26	ug/L	0.26	1.0	1.1	1.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Bromodichloromethane	<0.080	ug/L	0.080	0.25	0.50	0.50	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Bromoform	<0.50	ug/L	0.50	1.0	2.0	2.0	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Bromomethane	<0.49	ug/L	0.49	1.0	2.0	2.0	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Carbon disulfide	<0.83	ug/L	0.83	2.0	4.0	4.0	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Carbon tetrachloride	<0.37	ug/L	0.37	1.0	1.2	1.2	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Chlorobenzene	<0.37	ug/L	0.37	1.0	1.2	1.2	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Chloroethane	<0.36	ug/L	0.36	1.0	2.0	2.0	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Chloroform	<0.46	ug/L	0.46	1.0	1.4	1.4	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Chloromethane	<0.39	ug/L	0.39	1.0	2.0	2.0	1.00	U		9/12/22 14:07	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.41	ug/L	0.41	1.0	1.3	1.3	1.00	U		9/12/22 14:07	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.34	ug/L	0.34	1.0	1.1	1.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Cyclohexane	<0.71	ug/L	0.71	2.0	2.2	2.2	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Dibromochloromethane	<0.35	ug/L	0.35	1.0	1.1	1.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Dichlorodifluoromethane	<0.63	ug/L	0.63	2.0	2.1	2.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Ethylbenzene	<0.42	ug/L	0.42	1.0	1.3	1.3	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Isopropylbenzene	<0.39	ug/L	0.39	1.0	1.2	1.2	1.00	U		9/12/22 14:07	RLD	EPA 8260C
m & p-Xylene	<0.74	ug/L	0.74	2.0	2.3	2.3	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Methyl acetate	<0.34	ug/L	0.34	1.0	2.0	2.0	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Methyl tert-butyl ether	<0.28	ug/L	0.28	1.0	1.1	1.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1232150

Sample Description: TRIP BLANK

Client Sample #:

Sampled: 9/8/2022

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Methylcyclohexane	<0.78	ug/L	0.78	2.0	2.4	2.4	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Methylene chloride	<1.2	ug/L	1.2	4.0	4.1	4.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
o-Xylene	<0.72	ug/L	0.72	2.0	2.2	2.2	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Styrene	<0.33	ug/L	0.33	1.0	1.1	1.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Tetrachloroethene	<0.54	ug/L	0.54	1.0	2.0	2.0	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Toluene	<0.27	ug/L	0.27	1.0	1.1	1.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.35	ug/L	0.35	1.0	1.1	1.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.56	ug/L	0.56	2.0	2.1	2.1	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Trichloroethene	<0.39	ug/L	0.39	1.0	1.2	1.2	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Trichlorofluoromethane	<0.41	ug/L	0.41	1.0	2.0	2.0	1.00	U		9/12/22 14:07	RLD	EPA 8260C
Vinyl chloride	<0.12	ug/L	0.12	0.25	0.50	0.50	1.00	U		9/12/22 14:07	RLD	EPA 8260C
1,2 Dichloroethane-d4	99.0	% Recovery	81			118	1.00			9/12/22 14:07	RLD	EPA 8260C
Bromofluorobenzene	94.0	% Recovery	85			114	1.00			9/12/22 14:07	RLD	EPA 8260C
d8-Toluene	103	% Recovery	89			112	1.00			9/12/22 14:07	RLD	EPA 8260C
Dibromofluoromethane	107	% Recovery	80			119	1.00			9/12/22 14:07	RLD	EPA 8260C

Notes:

^ Indicates the laboratory is NELAP accredited for this analyte by the indicated matrix and method . DL (detection limit), LOD (limit of detection), loq (limit of quantitation) as defined by most recent DOD QSM version.

All samples were received intact and properly preserved unless otherwise noted . The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for the parameters where accreditation is required or available, unless noted in the case narrative.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers		Current CT Laboratories Certifications
Code	Description	
B	Analyte detected in the associated Method Blank.	<p>Wisconsin (WDNR) Chemistry ID# 157066030 Wisconsin (DATCP) Bacteriology ID# 289 Louisiana NELAP (primary) ID# 115843 Illinois NELAP Lab ID# 200073 Kansas NELAP Lab ID# E-10368 Virginia NELAP Lab ID# 460203 ISO/IEC 17025-2005 A2LA Cert # 3806.01 DoD-ELAP A2LA 3806.01</p>
C	Toxicity present in BOD sample.	
D	Diluted Out.	
E	Safe, No Total Coliform detected.	
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	
H	Holding time exceeded.	
I	Incubator temperature was outside acceptance limits during test period.	
J	Estimated value.	
L	Significant peaks were detected outside the chromatographic window.	
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	
N	Insufficient BOD oxygen depletion.	
O	Complete BOD oxygen depletion.	
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	
Q	Laboratory Control Sample outside acceptance limits.	
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Y	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

QC Summary Report

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	265082	Analysis Date:	9/9/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1233448	Analysis Time:	15:00	Prep Date/Time:	Method:	SW9045C
Parent Sample #:	1232149	Analyst:	ATJ	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
pH	7.88	S.U.	7.86					0	1

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	265110	Analysis Date:	9/12/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1233859	Analysis Time:	13:29	Prep Date/Time:	Method:	A2974-87
Parent Sample #:	1232149	Analyst:	BMM	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Percent Moisture	8.5	%	8.6					1	20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	265113	Analysis Date:	9/12/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1233848	Analysis Time:	13:29	Prep Date/Time:	Method:	SW8000C
Parent Sample #:	1232149	Analyst:	BMM	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Solids, Percent	91.5	%	91.4					0	8

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	265135	Analysis Date:	9/12/2022	Prep Batch #:	126767	Matrix:	SOIL
CTLab #:	1232352	Analysis Time:	16:44	Prep Date/Time:	09/12/2022 10:05	Method:	SW6010
Parent Sample #:	1232149	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	536	mg/kg	424				10	23	20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	265135	Analysis Date:	9/12/2022	Prep Batch #:	126767	Matrix:	SOIL
CTLab #:	1232352	Analysis Time:	16:44	Prep Date/Time:	09/12/2022 10:05	Method:	SW6010
Parent Sample #:	1232149	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	199	mg/kg	163				10	20	20

Duplicate

Analytical Run #:	265135	Analysis Date:	9/12/2022	Prep Batch #:	126767	Matrix:	SOIL
CTLab #:	1232352	Analysis Time:	16:44	Prep Date/Time:	09/12/2022 10:05	Method:	SW6010
Parent Sample #:	1232149	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	5300	mg/kg	6900				800	26	20
Antimony	2.52	mg/kg	3.2				40	24	20
Arsenic	7.28	mg/kg	19				40	89	20
Barium	153	mg/kg	160				20	4	20
Beryllium	0.0200	mg/kg	<0.0200	U			8	0	20
Cadmium	8.16	mg/kg	9.1				10	11	20
Calcium	65800	mg/kg	92000				1000	33	20
Chromium	112	mg/kg	50				20	77	20
Cobalt	5.28	mg/kg	6.0				20	13	20
Copper	1140	mg/kg	1500				20	27	20
Iron	30500	mg/kg	48000				600	45	20
Lead	2920	mg/kg	1100				20	91	20
Magnesium	33600	mg/kg	48000				1000	35	20
Manganese	553	mg/kg	660				20	18	20
Nickel	428	mg/kg	76				20	140	20
Selenium	0.278	mg/kg	<0.278	U			40	0	20
Silver	1.10	mg/kg	1.8				40	48	20
Thallium	0.708	mg/kg	1.0				40	34	20
Vanadium	12.9	mg/kg	12				20	7	20
Zinc	2000	mg/kg	1300				20	42	20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	265135	Analysis Date:	9/12/2022	Prep Batch #:	126767	Matrix:	SOLID
CTLab #:	1232356	Analysis Time:	16:14	Prep Date/Time:	09/12/2022 10:05	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	2.38	mg/kg			2.50	95	81 --- 116		

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	265135	Analysis Date:	9/12/2022	Prep Batch #:	126767	Matrix:	SOLID
CTLab #:	1232356	Analysis Time:	16:14	Prep Date/Time:	09/12/2022 10:05	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2.37	mg/kg			2.50	95	83 --- 118		

Lab Control Spike Soil

Analytical Run #:	265135	Analysis Date:	9/12/2022	Prep Batch #:	126767	Matrix:	SOLID
CTLab #:	1232356	Analysis Time:	16:14	Prep Date/Time:	09/12/2022 10:05	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	101	mg/kg			100	101	74 --- 119		
Antimony	26.3	mg/kg			25.0	105	79 --- 114		
Arsenic	108	mg/kg			100	108	82 --- 111		
Barium	95.3	mg/kg			100	95	83 --- 113		
Beryllium	2.58	mg/kg			2.50	103	83 --- 113		
Cadmium	2.73	mg/kg			2.50	109	82 --- 113		
Calcium	4930	mg/kg			5000	99	81 --- 116		
Chromium	10.3	mg/kg			10.0	103	85 --- 113		
Cobalt	25.5	mg/kg			25.0	102	85 --- 112		
Copper	11.9	mg/kg			12.5	95	81 --- 117		
Iron	52.5	mg/kg			50.0	105	81 --- 118		
Lead	23.4	mg/kg			25.0	94	81 --- 112		
Magnesium	2450	mg/kg			2500	98	78 --- 115		
Manganese	25.5	mg/kg			25.0	102	84 --- 114		
Nickel	25.5	mg/kg			25.0	102	83 --- 113		
Selenium	105	mg/kg			100	105	78 --- 111		
Silver	2.37	mg/kg			2.50	95	82 --- 112		
Thallium	96.8	mg/kg			100	97	83 --- 111		
Vanadium	25.5	mg/kg			25.0	102	82 --- 114		
Zinc	25.5	mg/kg			25.0	102	82 --- 113		

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	265135	Analysis Date:	9/12/2022	Prep Batch #:	126767	Matrix:	SOLID
CTLab #:	1232355	Analysis Time:	16:21	Prep Date/Time:	09/12/2022 10:05	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	34	mg/kg		U	0		125		

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	265135	Analysis Date:	9/12/2022	Prep Batch #:	126767	Matrix:	SOLID
CTLab #:	1232355	Analysis Time:	16:21	Prep Date/Time:	09/12/2022 10:05	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	32	mg/kg		U	0		125		

Method Blank Soil

Analytical Run #:	265135	Analysis Date:	9/12/2022	Prep Batch #:	126767	Matrix:	SOLID
CTLab #:	1232355	Analysis Time:	16:21	Prep Date/Time:	09/12/2022 10:05	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	2.1	mg/kg		U	0		10		
Antimony	0.15	mg/kg		U	0		0.50		
Arsenic	0.19	mg/kg		U	0		0.50		
Barium	0.052	mg/kg		U	0		0.25		
Beryllium	0.018	mg/kg		U	0		0.10		
Cadmium	0.027	mg/kg		U	0		0.13		
Calcium	2.9	mg/kg		U	0		13		
Chromium	0.071	mg/kg		U	0		0.25		
Cobalt	0.045	mg/kg		U	0		0.25		
Copper	0.13	mg/kg		U	0		0.25		
Iron	3.0	mg/kg		U	0		7.5		
Lead	0.078	mg/kg		U	0		0.25		
Magnesium	3.7	mg/kg		U	0		13		
Manganese	0.070	mg/kg		U	0		0.25		
Nickel	0.060	mg/kg		U	0		0.25		
Selenium	0.25	mg/kg		U	0		0.50		
Silver	0.18	mg/kg		U	0		0.50		
Thallium	0.22	mg/kg		U	0		0.50		
Vanadium	0.051	mg/kg		U	0		0.25		
Zinc	0.066	mg/kg		U	0		0.25		

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Matrix Spike Duplicate Soil

Analytical Run #:	265135	Analysis Date:	9/12/2022	Prep Batch #:	126767	Matrix:	SOIL
CTLab #:	1232354	Analysis Time:	17:01	Prep Date/Time:	09/12/2022 10:05	Method:	SW6010
Parent Sample #:	1232353	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	3210	mg/kg	424		2790	100	81 --- 116	2	20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Matrix Spike Duplicate Soil

Analytical Run #:	265135	Analysis Date:	9/12/2022	Prep Batch #:	126767	Matrix:	SOIL
CTLab #:	1232354	Analysis Time:	17:01	Prep Date/Time:	09/12/2022 10:05	Method:	SW6010
Parent Sample #:	1232353	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2900	mg/kg	163		2790	98	83 --- 118	2	20

Matrix Spike Duplicate Soil

Analytical Run #:	265135	Analysis Date:	9/12/2022	Prep Batch #:	126767	Matrix:	SOIL
CTLab #:	1232354	Analysis Time:	17:01	Prep Date/Time:	09/12/2022 10:05	Method:	SW6010
Parent Sample #:	1232353	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	8880	mg/kg	6900		112	1768	74 --- 119	52	20
Antimony	16.5	mg/kg	3.2		27.9	48	79 --- 114	22	20
Arsenic	78.1	mg/kg	19		112	53	82 --- 111	12	20
Barium	252	mg/kg	160		112	82	83 --- 113	4	20
Beryllium	2.06	mg/kg	BDL		2.79	74	83 --- 113	28	20
Cadmium	11.9	mg/kg	9.1		2.79	100	82 --- 113	20	20
Calcium	75400	mg/kg	92000		5580	0	81 --- 116	9	20
Chromium	45.2	mg/kg	50		11.2	0	85 --- 113	5	20
Cobalt	29.9	mg/kg	6.0		27.9	86	85 --- 112	6	20
Copper	1230	mg/kg	1500		14.0	0	81 --- 117	40	20
Iron	38800	mg/kg	48000		55.8	0	81 --- 118	22	20
Lead	921	mg/kg	1100		27.9	0	81 --- 112	12	20
Magnesium	38000	mg/kg	48000		2790	0	78 --- 115	14	20
Manganese	667	mg/kg	660		27.9	25	84 --- 114	30	20
Nickel	80.9	mg/kg	76		27.9	18	83 --- 113	5	20
Selenium	90.7	mg/kg	BDL		112	81	78 --- 111	6	20
Silver	4.07	mg/kg	1.8		2.79	81	82 --- 112	3	20
Thallium	79.8	mg/kg	1.0		112	70	83 --- 111	1	20
Vanadium	39.9	mg/kg	12		27.9	100	82 --- 114	6	20
Zinc	1080	mg/kg	1300		27.9	0	82 --- 113	6	20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Matrix Spike Soil

Analytical Run #:	265135	Analysis Date:	9/12/2022	Prep Batch #:	126767	Matrix:	SOIL
CTLab #:	1232353	Analysis Time:	16:53	Prep Date/Time:	09/12/2022 10:05	Method:	SW6010
Parent Sample #:	1232149	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	3270	mg/kg	424		2790	102	81 --- 116		20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Matrix Spike Soil

Analytical Run #:	265135	Analysis Date:	9/12/2022	Prep Batch #:	126767	Matrix:	SOIL
CTLab #:	1232353	Analysis Time:	16:53	Prep Date/Time:	09/12/2022 10:05	Method:	SW6010
Parent Sample #:	1232149	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2850	mg/kg	163		2790	96	83 --- 118		20

Matrix Spike Soil

Analytical Run #:	265135	Analysis Date:	9/12/2022	Prep Batch #:	126767	Matrix:	SOIL
CTLab #:	1232353	Analysis Time:	16:53	Prep Date/Time:	09/12/2022 10:05	Method:	SW6010
Parent Sample #:	1232149	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	5190	mg/kg	6900		112	0	74 --- 119		20
Antimony	13.3	mg/kg	3.2		27.9	36	79 --- 114		20
Arsenic	87.9	mg/kg	19		112	62	82 --- 111		20
Barium	263	mg/kg	160		112	92	83 --- 113		20
Beryllium	2.73	mg/kg	BDL		2.79	98	83 --- 113		20
Cadmium	9.71	mg/kg	9.1		2.79	22	82 --- 113		20
Calcium	82100	mg/kg	92000		5580	0	81 --- 116		20
Chromium	43.0	mg/kg	50		11.2	0	85 --- 113		20
Cobalt	28.2	mg/kg	6.0		27.9	80	85 --- 112		20
Copper	815	mg/kg	1500		14.0	0	81 --- 117		20
Iron	31000	mg/kg	48000		55.8	0	81 --- 118		20
Lead	1040	mg/kg	1100		27.9	0	81 --- 112		20
Magnesium	43800	mg/kg	48000		2790	0	78 --- 115		20
Manganese	494	mg/kg	660		27.9	0	84 --- 114		20
Nickel	77.0	mg/kg	76		27.9	4	83 --- 113		20
Selenium	96.6	mg/kg	BDL		112	86	78 --- 111		20
Silver	4.19	mg/kg	1.8		2.79	86	82 --- 112		20
Thallium	80.9	mg/kg	1.0		112	71	83 --- 111		20
Vanadium	37.4	mg/kg	12		27.9	91	82 --- 114		20
Zinc	1150	mg/kg	1300		27.9	0	82 --- 113		20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	265171	Analysis Date:	9/14/2022	Prep Batch #:	126801	Matrix:	TCLP
CTLab #:	1233665	Analysis Time:	12:46	Prep Date/Time:	09/13/2022 12:07	Method:	SW6010
Parent Sample #:	1232148	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.0138	mg/L	0.014				0.040	1	20
Barium	2.23	mg/L	2.3				0.0040	3	20
Cadmium	0.178	mg/L	0.16				0.0020	11	20
Chromium	0.00182	mg/L	0.0020				0.0050	9	20
Lead	1.70	mg/L	1.7				0.0040	0	20
Selenium	0.01	mg/L	<0.01	U			0.010	0	20
Silver	0.0011	mg/L	<0.0011	U			0.0050	0	20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Lab Control Spike Water

Analytical Run #:	265171	Analysis Date:	9/14/2022	Prep Batch #:	126801	Matrix:	LIQUID
CTLab #:	1233664	Analysis Time:	12:17	Prep Date/Time:	09/13/2022 12:07	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	4.31	mg/L			4.0	108	50 --- 150		
Barium	3.63	mg/L			4.0	91	50 --- 150		
Cadmium	0.112	mg/L			0.1	112	50 --- 150		
Chromium	0.389	mg/L			0.4	97	50 --- 150		
Lead	0.941	mg/L			1.0	94	50 --- 150		
Selenium	4.07	mg/L			4.0	102	50 --- 150		
Silver	0.0968	mg/L			0.1	97	50 --- 150		

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Method Blank Water

Analytical Run #:	265171	Analysis Date:	9/14/2022	Prep Batch #:	126801	Matrix:	LIQUID
CTLab #:	1233663	Analysis Time:	12:24	Prep Date/Time:	09/13/2022 12:07	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.0077	mg/L		U	0		0.020		
Barium	0.00071	mg/L		U	0		0.0020		
Cadmium	0.00041	mg/L		U	0		0.0010		
Chromium	0.0011	mg/L		U	0		0.0025		
Lead	0.0014	mg/L		U	0		0.0020		
Selenium	0.010	mg/L		U	0		0.020		
Silver	0.0011	mg/L		U	0		0.0025		

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Matrix Spike Duplicate Water

Analytical Run #:	265171	Analysis Date:	9/14/2022	Prep Batch #:	126801	Matrix:	TCLP
CTLab #:	1233667	Analysis Time:	13:01	Prep Date/Time:	09/13/2022 12:07	Method:	SW6010
Parent Sample #:	1233666	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	4.71	mg/L	0.014		4.0	117	50 --- 150	0	20
Barium	5.45	mg/L	2.3		4.0	79	50 --- 150	0	20
Cadmium	0.295	mg/L	0.16		0.1	135	50 --- 150	0	20
Chromium	0.386	mg/L	0.0020		0.4	96	50 --- 150	1	20
Lead	2.75	mg/L	1.7		1.0	105	50 --- 150	0	20
Selenium	4.56	mg/L	BDL		4.0	114	50 --- 150	0	20
Silver	0.104	mg/L	BDL		0.1	104	50 --- 150	1	20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Matrix Spike Water

Analytical Run #:	265171	Analysis Date:	9/14/2022	Prep Batch #:	126801	Matrix:	TCLP
CTLab #:	1233666	Analysis Time:	12:54	Prep Date/Time:	09/13/2022 12:07	Method:	SW6010
Parent Sample #:	1232148	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	4.72	mg/L	0.014		4.0	118	50 --- 150		20
Barium	5.47	mg/L	2.3		4.0	79	50 --- 150		20
Cadmium	0.294	mg/L	0.16		0.1	134	50 --- 150		20
Chromium	0.382	mg/L	0.0020		0.4	95	90 --- 113		20
Lead	2.74	mg/L	1.7		1.0	104	86 --- 113		20
Selenium	4.58	mg/L	BDL		4.0	114	83 --- 114		20
Silver	0.105	mg/L	BDL		0.1	105	84 --- 115		20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	265199	Analysis Date:	9/14/2022	Prep Batch #:	126802	Matrix:	TCLP
CTLab #:	1233870	Analysis Time:	10:54	Prep Date/Time:	09/13/2022 12:30	Method:	SW7470A
Parent Sample #:	1232148	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00002	mg/L	<0.00002 U				0.12	0	20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Lab Control Spike Water

Analytical Run #:	265199	Analysis Date:	9/14/2022	Prep Batch #:	126802	Matrix:	LIQUID
CTLab #:	1233869	Analysis Time:	09:48	Prep Date/Time:	09/13/2022 12:30	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00196	mg/L			0.002	98	82 --- 119		

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Method Blank Water

Analytical Run #:	265199	Analysis Date:	9/14/2022	Prep Batch #:	126802	Matrix:	LIQUID
CTLab #:	1233868	Analysis Time:	10:48	Prep Date/Time:	09/13/2022 12:30	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.000020	mg/L		U	0		0.00006		

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Matrix Spike Duplicate Water

Analytical Run #:	265199	Analysis Date:	9/14/2022	Prep Batch #:	126802	Matrix:	TCLP
CTLab #:	1233872	Analysis Time:	11:10	Prep Date/Time:	09/13/2022 12:30	Method:	SW7470A
Parent Sample #:	1233871	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00194	mg/L	BDL		0.002	97	82 --- 119	0	20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Matrix Spike Water

Analytical Run #:	265199	Analysis Date:	9/14/2022	Prep Batch #:	126802	Matrix:	TCLP
CTLab #:	1233871	Analysis Time:	10:58	Prep Date/Time:	09/13/2022 12:30	Method:	SW7470A
Parent Sample #:	1232148	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00195	mg/L	BDL		0.002	98	82 --- 119		20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	265207	Analysis Date:	9/15/2022	Prep Batch #:	126770	Matrix:	SOIL
CTLab #:	1232429	Analysis Time:	09:09	Prep Date/Time:	09/13/2022 12:00	Method:	SW7471B
Parent Sample #:	1232149	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	4.0	mg/kg	3.3				0.20	19	20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	265207	Analysis Date:	9/15/2022	Prep Batch #:	126770	Matrix:	SOLID
CTLab #:	1232428	Analysis Time:	08:56	Prep Date/Time:	09/13/2022 12:00	Method:	SW7471B
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.079	mg/kg			0.083	95	82 --- 124		

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	265207	Analysis Date:	9/15/2022	Prep Batch #:	126770	Matrix:	SOLID
CTLab #:	1232427	Analysis Time:	09:03	Prep Date/Time:	09/13/2022 12:00	Method:	SW7471B
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.0027	mg/kg		U	0		1.00415		

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Matrix Spike Duplicate Soil

Analytical Run #:	265207	Analysis Date:	9/15/2022	Prep Batch #:	126770	Matrix:	SOIL
CTLab #:	1232431	Analysis Time:	09:25	Prep Date/Time:	09/13/2022 12:00	Method:	SW7471B
Parent Sample #:	1232430	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	3.7	mg/kg	3.3		0.094	426	82 --- 124	98	20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Matrix Spike Soil

Analytical Run #:	265207	Analysis Date:	9/15/2022	Prep Batch #:	126770	Matrix:	SOIL
CTLab #:	1232430	Analysis Time:	09:22	Prep Date/Time:	09/13/2022 12:00	Method:	SW7471B
Parent Sample #:	1232149	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	1.3	mg/kg	3.3		0.096	0	82 --- 124		20

Lab Control Spike Soil

Analytical Run #:	265059	Analysis Date:	9/9/2022	Prep Batch #:	126758	Matrix:	SOLID
CTLab #:	1232155	Analysis Time:	10:18	Prep Date/Time:	09/09/2022 09:00	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	561	ug/kg			500	112	73 --- 130		20
1,1,2,2-Tetrachloroethane	470	ug/kg			500	94	70 --- 124		20
1,1,2-Trichloroethane	500	ug/kg			500	100	78 --- 121		20
1,1-Dichloroethane	523	ug/kg			500	105	76 --- 125		20
1,1-Dichloroethene	583	ug/kg			500	117	70 --- 131		20
1,2,3-Trichlorobenzene	471	ug/kg			500	94	66 --- 130		20
1,2,4-Trichlorobenzene	486	ug/kg			500	97	67 --- 129		20
1,2-Dibromo-3-chloropropane	416	ug/kg			500	83	61 --- 132		20
1,2-Dibromoethane	498	ug/kg			500	100	78 --- 122		20
1,2-Dichlorobenzene	493	ug/kg			500	99	78 --- 121		20
1,2-Dichloroethane	517	ug/kg			500	103	73 --- 128		20
1,2-Dichloropropane	523	ug/kg			500	105	76 --- 123		20
1,3-Dichlorobenzene	502	ug/kg			500	100	77 --- 121		20
1,4-Dichlorobenzene	492	ug/kg			500	98	75 --- 120		20
112Trichloro122trifluoroethane	1140	ug/kg			1000	114	66 --- 136		20
2-Butanone	4680	ug/kg			5000	94	51 --- 148		20
2-Hexanone	4900	ug/kg			5000	98	53 --- 145		20
4-Methyl-2-pentanone	5080	ug/kg			5000	102	65 --- 135		20
Acetone	4640	ug/kg			5000	93	36 --- 164		20
Benzene	531	ug/kg			500	106	77 --- 121		20
Bromochloromethane	534	ug/kg			500	107	78 --- 125		20
Bromodichloromethane	515	ug/kg			500	103	75 --- 127		20
Bromoform	433	ug/kg			500	87	67 --- 132		20
Bromomethane	559	ug/kg			500	112	53 --- 143		20
Carbon disulfide	962	ug/kg			1000	96	63 --- 132		20
Carbon tetrachloride	560	ug/kg			500	112	70 --- 135		20
Chlorobenzene	509	ug/kg			500	102	79 --- 120		20
Chloroethane	523	ug/kg			500	105	59 --- 139		20
Chloroform	515	ug/kg			500	103	78 --- 123		20
Chloromethane	504	ug/kg			500	101	50 --- 136		20
cis-1,2-Dichloroethene	512	ug/kg			500	102	77 --- 123		20
cis-1,3-Dichloropropene	530	ug/kg			500	106	74 --- 126		20
Cyclohexane	549	ug/kg			500	110	67 --- 131		20
Dibromochloromethane	480	ug/kg			500	96	74 --- 126		20
Dichlorodifluoromethane	590	ug/kg			500	118	29 --- 149		20
Ethylbenzene	526	ug/kg			500	105	76 --- 122		20
Isopropylbenzene	542	ug/kg			500	108	68 --- 134		20
m & p-Xylene	1050	ug/kg			1000	105	77 --- 124		20
Methyl acetate	645	ug/kg			500	129	53 --- 144		20
Methyl tert-butyl ether	512	ug/kg			500	102	73 --- 125		20
Methylcyclohexane	538	ug/kg			500	108	66 --- 133		20
Methylene chloride	518	ug/kg			500	104	70 --- 128		20
Naphthalene	443	ug/kg			500	89	62 --- 129		20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	265059	Analysis Date:	9/9/2022	Prep Batch #:	126758	Matrix:	SOLID
CTLab #:	1232155	Analysis Time:	10:18	Prep Date/Time:	09/09/2022 09:00	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
o-Xylene	530	ug/kg			500	106	77 --- 123		20
Styrene	518	ug/kg			500	104	76 --- 124		20
Tetrachloroethene	566	ug/kg			500	113	73 --- 128		20
Toluene	529	ug/kg			500	106	77 --- 121		20
trans-1,2-Dichloroethene	553	ug/kg			500	111	74 --- 125		20
trans-1,3-Dichloropropene	518	ug/kg			500	104	71 --- 130		20
Trichloroethene	527	ug/kg			500	105	77 --- 123		20
Trichlorofluoromethane	565	ug/kg			500	113	62 --- 140		20
Vinyl chloride	576	ug/kg			500	115	56 --- 135		20

Method Blank Soil

Analytical Run #:	265059	Analysis Date:	9/9/2022	Prep Batch #:	126758	Matrix:	SOLID
CTLab #:	1232154	Analysis Time:	08:54	Prep Date/Time:	09/09/2022 09:00	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	30	ug/kg		U	0		100		
1,1,2,2-Tetrachloroethane	25	ug/kg		U	0		50		
1,1,2-Trichloroethane	27	ug/kg		U	0		100		
1,1-Dichloroethane	27	ug/kg		U	0		100		
1,1-Dichloroethene	24	ug/kg		U	0		50		
1,2,3-Trichlorobenzene	20	ug/kg		U	0		50		
1,2,4-Trichlorobenzene	13	ug/kg		U	0		50		
1,2-Dibromo-3-chloropropane	15	ug/kg		U	0		50		
1,2-Dibromoethane	18	ug/kg		U	0		50		
1,2-Dichlorobenzene	15	ug/kg		U	0		50		
1,2-Dichloroethane	22	ug/kg		U	0		50		
1,2-Dichloropropane	26	ug/kg		U	0		100		
1,3-Dichlorobenzene	14	ug/kg		U	0		50		
1,4-Dichlorobenzene	15	ug/kg		U	0		50		
112Trichloro122trifluoroethane	62	ug/kg		U	0		200		
2-Butanone	280	ug/kg		U	0		1000		
2-Hexanone	150	ug/kg		U	0		500		
4-Methyl-2-pentanone	300	ug/kg		U	0		1000		
Acetone	250	ug/kg		U	0		500		
Benzene	28	ug/kg		U	0		100		
Bromochloromethane	31	ug/kg		U	0		100		
Bromodichloromethane	23	ug/kg		U	0		50		
Bromoform	15	ug/kg		U	0		50		
Bromomethane	90	ug/kg		U	0		200		
Carbon disulfide	59	ug/kg		U	0		200		
Carbon tetrachloride	28	ug/kg		U	0		100		
Chlorobenzene	13	ug/kg		U	0		50		
Chloroethane	85	ug/kg		U	0		200		
Chloroform	32	ug/kg		U	0		100		
Chloromethane	33	ug/kg		U	0		100		
cis-1,2-Dichloroethene	30	ug/kg		U	0		100		
cis-1,3-Dichloropropene	29	ug/kg		U	0		100		
Cyclohexane	31	ug/kg		U	0		100		
Dibromochloromethane	15	ug/kg		U	0		50		
Dichlorodifluoromethane	31	ug/kg		U	0		100		
Ethylbenzene	13	ug/kg		U	0		50		
Isopropylbenzene	13	ug/kg		U	0		50		
m & p-Xylene	25	ug/kg		U	0		100		
Methyl acetate	40	ug/kg		U	0		100		
Methyl tert-butyl ether	24	ug/kg		U	0		50		
Methylcyclohexane	29	ug/kg		U	0		100		
Methylene chloride	42	ug/kg		U	0		100		
Naphthalene	14	ug/kg		U	0		50		

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	265059	Analysis Date:	9/9/2022	Prep Batch #:	126758	Matrix:	SOLID
CTLab #:	1232154	Analysis Time:	08:54	Prep Date/Time:	09/09/2022 09:00	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
o-Xylene	13	ug/kg		U	0		50		
Styrene	20	ug/kg		U	0		50		
Tetrachloroethene	34	ug/kg		U	0		100		
Toluene	28	ug/kg		U	0		100		
trans-1,2-Dichloroethene	29	ug/kg		U	0		100		
trans-1,3-Dichloropropene	26	ug/kg		U	0		100		
Trichloroethene	30	ug/kg		U	0		100		
Trichlorofluoromethane	30	ug/kg		U	0		100		
Vinyl chloride	30	ug/kg		U	0		100		

Matrix Spike Duplicate Soil

Analytical Run #:	265059	Analysis Date:	9/9/2022	Prep Batch #:	126758	Matrix:	SOIL
CTLab #:	1232153	Analysis Time:	12:10	Prep Date/Time:	09/09/2022 10:40	Method:	SW8260C
Parent Sample #:	1232152	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	633	ug/kg	BDL		550	115	73 --- 130	1	20
1,1,2,2-Tetrachloroethane	530	ug/kg	BDL		550	96	70 --- 124	3	20
1,1,2-Trichloroethane	548	ug/kg	BDL		550	100	78 --- 121	1	20
1,1-Dichloroethane	606	ug/kg	BDL		550	110	76 --- 125	0	20
1,1-Dichloroethene	668	ug/kg	BDL		550	121	70 --- 131	2	20
1,2 Dichloroethane-d4	100	% Recovery			100	100	71 --- 136	0	
1,2,3-Trichlorobenzene	496	ug/kg	BDL		550	90	66 --- 130	2	20
1,2,4-Trichlorobenzene	509	ug/kg	BDL		550	93	67 --- 129	1	20
1,2-Dibromo-3-chloropropane	504	ug/kg	BDL		550	92	61 --- 132	3	20
1,2-Dibromoethane	563	ug/kg	BDL		550	102	78 --- 122	1	20
1,2-Dichlorobenzene	535	ug/kg	BDL		550	97	78 --- 121	2	20
1,2-Dichloroethane	574	ug/kg	BDL		550	104	73 --- 128	4	20
1,2-Dichloropropane	592	ug/kg	BDL		550	108	76 --- 123	3	20
1,3-Dichlorobenzene	530	ug/kg	BDL		550	96	77 --- 121	3	20
1,4-Dichlorobenzene	531	ug/kg	BDL		550	97	75 --- 120	0	20
112Trichloro122trifluoroethane	1290	ug/kg	BDL		1100	117	66 --- 136	2	20
2-Butanone	5480	ug/kg	BDL		5500	100	51 --- 148	3	20
2-Hexanone	5790	ug/kg	BDL		5500	105	53 --- 145	2	20
4-Methyl-2-pentanone	5850	ug/kg	BDL		5500	106	65 --- 135	2	20
Acetone	5660	ug/kg	BDL		5500	103	36 --- 164	2	20
Benzene	597	ug/kg	BDL		550	109	77 --- 121	0	20
Bromochloromethane	590	ug/kg	BDL		550	107	78 --- 125	2	20
Bromodichloromethane	582	ug/kg	BDL		550	106	75 --- 127	1	20
Bromofluorobenzene	100	% Recovery			100	100	79 --- 119	0	
Bromoform	509	ug/kg	BDL		550	93	67 --- 132	1	20
Bromomethane	605	ug/kg	BDL		550	110	53 --- 143	3	20
Carbon disulfide	1150	ug/kg	BDL		1100	105	63 --- 132	2	20
Carbon tetrachloride	639	ug/kg	BDL		550	116	70 --- 135	2	20
Chlorobenzene	567	ug/kg	BDL		550	103	79 --- 120	1	20
Chloroethane	588	ug/kg	BDL		550	107	59 --- 139	2	20
Chloroform	587	ug/kg	BDL		550	107	78 --- 123	1	20
Chloromethane	558	ug/kg	BDL		550	101	50 --- 136	1	20
cis-1,2-Dichloroethene	594	ug/kg	BDL		550	108	77 --- 123	0	20
cis-1,3-Dichloropropene	596	ug/kg	BDL		550	108	74 --- 126	3	20
Cyclohexane	616	ug/kg	BDL		550	112	67 --- 131	0	20
d8-Toluene	100	% Recovery			100	100	85 --- 116	0	
Dibromochloromethane	560	ug/kg	BDL		550	102	74 --- 126	2	20
Dibromofluoromethane	98.0	% Recovery			100	98.0	78 --- 119	0	
Dichlorodifluoromethane	623	ug/kg	BDL		550	113	29 --- 149	1	20
Ethylbenzene	582	ug/kg	BDL		550	106	76 --- 122	0	20
Isopropylbenzene	596	ug/kg	BDL		550	108	68 --- 134	1	20
m & p-Xylene	1160	ug/kg	BDL		1100	105	77 --- 124	3	20
Methyl acetate	1490	ug/kg	BDL		550	271	53 --- 144	15	20

Matrix Spike Duplicate Soil

Analytical Run #:	265059	Analysis Date:	9/9/2022	Prep Batch #:	126758	Matrix:	SOIL
CTLab #:	1232153	Analysis Time:	12:10	Prep Date/Time:	09/09/2022 10:40	Method:	SW8260C
Parent Sample #:	1232152	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl tert-butyl ether	588	ug/kg	BDL		550	107	73 --- 125	1	20
Methylcyclohexane	594	ug/kg	BDL		550	108	66 --- 133	2	20
Methylene chloride	581	ug/kg	BDL		550	106	70 --- 128	1	20
Naphthalene	565	ug/kg	21.7		550	99	62 --- 129	0	20
o-Xylene	590	ug/kg	BDL		550	107	77 --- 123	2	20
Styrene	579	ug/kg	BDL		550	105	76 --- 124	1	20
Tetrachloroethene	683	ug/kg	50.0		550	115	73 --- 128	1	20
Toluene	600	ug/kg	BDL		550	109	77 --- 121	0	20
trans-1,2-Dichloroethene	622	ug/kg	BDL		550	113	74 --- 125	4	20
trans-1,3-Dichloropropene	587	ug/kg	BDL		550	107	71 --- 130	2	20
Trichloroethene	613	ug/kg	BDL		550	111	77 --- 123	1	20
Trichlorofluoromethane	651	ug/kg	BDL		550	118	62 --- 140	0	20
Vinyl chloride	646	ug/kg	BDL		550	117	56 --- 135	3	20

Matrix Spike Soil

Analytical Run #:	265059	Analysis Date:	9/9/2022	Prep Batch #:	126758	Matrix:	SOIL
CTLab #:	1232152	Analysis Time:	11:43	Prep Date/Time:	09/09/2022 10:40	Method:	SW8260C
Parent Sample #:	1232149	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	624	ug/kg	BDL		550	113	73 --- 130		20
1,1,2,2-Tetrachloroethane	548	ug/kg	BDL		550	100	70 --- 124		20
1,1,2-Trichloroethane	557	ug/kg	BDL		550	101	78 --- 121		20
1,1-Dichloroethane	604	ug/kg	BDL		550	110	76 --- 125		20
1,1-Dichloroethene	654	ug/kg	BDL		550	119	70 --- 131		20
1,2 Dichloroethane-d4	100	% Recovery			100	100	71 --- 136		
1,2,3-Trichlorobenzene	487	ug/kg	BDL		550	89	66 --- 130		20
1,2,4-Trichlorobenzene	513	ug/kg	BDL		550	93	67 --- 129		20
1,2-Dibromo-3-chloropropane	492	ug/kg	BDL		550	89	61 --- 132		20
1,2-Dibromoethane	569	ug/kg	BDL		550	103	78 --- 122		20
1,2-Dichlorobenzene	545	ug/kg	BDL		550	99	78 --- 121		20
1,2-Dichloroethane	599	ug/kg	BDL		550	109	73 --- 128		20
1,2-Dichloropropane	576	ug/kg	BDL		550	105	76 --- 123		20
1,3-Dichlorobenzene	545	ug/kg	BDL		550	99	77 --- 121		20
1,4-Dichlorobenzene	530	ug/kg	BDL		550	96	75 --- 120		20
112Trichloro122trifluoroethane	1320	ug/kg	BDL		1100	120	66 --- 136		20
2-Butanone	5620	ug/kg	BDL		5500	102	51 --- 148		20
2-Hexanone	5900	ug/kg	BDL		5500	107	53 --- 145		20
4-Methyl-2-pentanone	5940	ug/kg	BDL		5500	108	65 --- 135		20
Acetone	5770	ug/kg	BDL		5500	105	36 --- 164		20
Benzene	597	ug/kg	BDL		550	109	77 --- 121		20
Bromochloromethane	601	ug/kg	BDL		550	109	78 --- 125		20
Bromodichloromethane	576	ug/kg	BDL		550	105	75 --- 127		20
Bromofluorobenzene	100	% Recovery			100	100	79 --- 119		
Bromoform	513	ug/kg	BDL		550	93	67 --- 132		20
Bromomethane	622	ug/kg	BDL		550	113	53 --- 143		20
Carbon disulfide	1130	ug/kg	BDL		1100	103	63 --- 132		20
Carbon tetrachloride	625	ug/kg	BDL		550	114	70 --- 135		20
Chlorobenzene	562	ug/kg	BDL		550	102	79 --- 120		20
Chloroethane	598	ug/kg	BDL		550	109	59 --- 139		20
Chloroform	581	ug/kg	BDL		550	106	78 --- 123		20
Chloromethane	553	ug/kg	BDL		550	101	50 --- 136		20
cis-1,2-Dichloroethene	596	ug/kg	BDL		550	108	77 --- 123		20
cis-1,3-Dichloropropene	580	ug/kg	BDL		550	105	74 --- 126		20
Cyclohexane	617	ug/kg	BDL		550	112	67 --- 131		20
d8-Toluene	102	% Recovery			100	102	85 --- 116		
Dibromochloromethane	551	ug/kg	BDL		550	100	74 --- 126		20
Dibromofluoromethane	100	% Recovery			100	100	78 --- 119		
Dichlorodifluoromethane	617	ug/kg	BDL		550	112	29 --- 149		20
Ethylbenzene	580	ug/kg	BDL		550	105	76 --- 122		20
Isopropylbenzene	603	ug/kg	BDL		550	110	68 --- 134		20
m & p-Xylene	1190	ug/kg	BDL		1100	108	77 --- 124		20
Methyl acetate	1280	ug/kg	BDL		550	233	53 --- 144		20

Matrix Spike Soil

Analytical Run #:	265059	Analysis Date:	9/9/2022	Prep Batch #:	126758	Matrix:	SOIL
CTLab #:	1232152	Analysis Time:	11:43	Prep Date/Time:	09/09/2022 10:40	Method:	SW8260C
Parent Sample #:	1232149	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl tert-butyl ether	584	ug/kg	BDL		550	106	73 --- 125		20
Methylcyclohexane	608	ug/kg	BDL		550	111	66 --- 133		20
Methylene chloride	575	ug/kg	BDL		550	105	70 --- 128		20
Naphthalene	563	ug/kg	21.7		550	98	62 --- 129		20
o-Xylene	579	ug/kg	BDL		550	105	77 --- 123		20
Styrene	573	ug/kg	BDL		550	104	76 --- 124		20
Tetrachloroethene	691	ug/kg	50.0		550	117	73 --- 128		20
Toluene	602	ug/kg	BDL		550	109	77 --- 121		20
trans-1,2-Dichloroethene	597	ug/kg	BDL		550	109	74 --- 125		20
trans-1,3-Dichloropropene	578	ug/kg	BDL		550	105	71 --- 130		20
Trichloroethene	607	ug/kg	BDL		550	110	77 --- 123		20
Trichlorofluoromethane	651	ug/kg	BDL		550	118	62 --- 140		20
Vinyl chloride	628	ug/kg	BDL		550	114	56 --- 135		20

Lab Control Spike Duplicate Water

Analytical Run #:	265074	Analysis Date:	9/12/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1233528	Analysis Time:	21:32	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	1233471	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	9.68	ug/L			10.0	97	74 --- 131	1	20
1,1,2,2-Tetrachloroethane	8.92	ug/L			10.0	89	71 --- 121	1	20
1,1,2-Trichloroethane	10.9	ug/L			10.0	109	80 --- 119	1	20
1,1-Dichloroethane	11.2	ug/L			10.0	112	77 --- 125	1	20
1,1-Dichloroethene	11.9	ug/L			10.0	119	71 --- 131	0	20
1,2,3-Trichlorobenzene	10.4	ug/L			10.0	104	69 --- 129	1	20
1,2,4-Trichlorobenzene	10.4	ug/L			10.0	104	69 --- 130	2	20
1,2-Dibromo-3-chloropropane	8.82	ug/L			10.0	88	62 --- 128	0	20
1,2-Dibromoethane	10.1	ug/L			10.0	101	77 --- 121	2	20
1,2-Dichlorobenzene	9.98	ug/L			10.0	100	80 --- 119	0	20
1,2-Dichloroethane	11.3	ug/L			10.0	113	73 --- 128	3	20
1,2-Dichloropropane	10.9	ug/L			10.0	109	78 --- 122	3	20
1,3-Dichlorobenzene	10.1	ug/L			10.0	101	80 --- 119	0	20
1,4-Dichlorobenzene	9.92	ug/L			10.0	99	79 --- 118	2	20
1,1,2,2-Tetrachloroethane	26.6	ug/L			20.0	133	70 --- 136	18	20
2-Butanone	102	ug/L			100	102	56 --- 143	1	20
2-Hexanone	95.7	ug/L			100	96	57 --- 139	1	20
4-Methyl-2-pentanone	110	ug/L			100	110	67 --- 130	4	20
Acetone	95.6	ug/L			100	96	39 --- 160	4	20
Benzene	11.3	ug/L			10.0	113	79 --- 120	1	20
Bromochloromethane	12.2	ug/L			10.0	122	78 --- 123	6	20
Bromodichloromethane	11.4	ug/L			10.0	114	79 --- 125	2	20
Bromoform	9.34	ug/L			10.0	93	66 --- 130	5	20
Bromomethane	10.9	ug/L			10.0	109	53 --- 141	4	20
Carbon disulfide	21.3	ug/L			20.0	106	64 --- 133	4	20
Carbon tetrachloride	11.3	ug/L			10.0	113	72 --- 136	0	20
Chlorobenzene	10.2	ug/L			10.0	102	82 --- 118	0	20
Chloroethane	11.6	ug/L			10.0	116	60 --- 138	1	20
Chloroform	11.5	ug/L			10.0	115	79 --- 124	3	20
Chloromethane	10.3	ug/L			10.0	103	50 --- 139	1	20
cis-1,2-Dichloroethene	11.3	ug/L			10.0	113	78 --- 123	2	20
cis-1,3-Dichloropropene	11.2	ug/L			10.0	112	75 --- 124	2	20
Cyclohexane	11.2	ug/L			10.0	112	71 --- 130	1	20
Dibromochloromethane	10.00	ug/L			10.0	100	74 --- 126	2	20
Dichlorodifluoromethane	11.5	ug/L			10.0	115	32 --- 152	0	20
Ethylbenzene	10.4	ug/L			10.0	104	79 --- 121	1	20
Isopropylbenzene	10.8	ug/L			10.0	108	72 --- 131	1	20
m & p-Xylene	21.3	ug/L			20.0	106	80 --- 121	0	20
Methyl acetate	10.6	ug/L			10.0	106	56 --- 136	1	20
Methyl tert-butyl ether	10.9	ug/L			10.0	109	71 --- 124	1	20
Methylcyclohexane	11.5	ug/L			10.0	115	72 --- 132	0	20
Methylene chloride	11.2	ug/L			10.0	112	74 --- 124	2	20
o-Xylene	10.3	ug/L			10.0	103	78 --- 122	1	20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Lab Control Spike Duplicate Water

Analytical Run #:	265074	Analysis Date:	9/12/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1233528	Analysis Time:	21:32	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	1233471	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Styrene	10.2	ug/L			10.0	102	78 --- 123	0	20
Tetrachloroethene	10.8	ug/L			10.0	108	74 --- 129	5	20
Toluene	11.5	ug/L			10.0	115	80 --- 121	1	20
trans-1,2-Dichloroethene	12.1	ug/L			10.0	121	75 --- 124	3	20
trans-1,3-Dichloropropene	10.6	ug/L			10.0	106	73 --- 127	3	20
Trichloroethene	11.4	ug/L			10.0	114	79 --- 123	0	20
Trichlorofluoromethane	13.9	ug/L			10.0	139	65 --- 141	18	20
Vinyl chloride	11.7	ug/L			10.0	117	58 --- 137	3	20

Lab Control Spike Water

Analytical Run #:	265074	Analysis Date:	9/12/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1233471	Analysis Time:	12:43	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	9.78	ug/L			10.0	98	74 --- 131		20
1,1,2,2-Tetrachloroethane	8.85	ug/L			10.0	88	71 --- 121		20
1,1,2-Trichloroethane	11.0	ug/L			10.0	110	80 --- 119		20
1,1-Dichloroethane	11.3	ug/L			10.0	113	77 --- 125		20
1,1-Dichloroethene	11.9	ug/L			10.0	119	71 --- 131		20
1,2,3-Trichlorobenzene	10.3	ug/L			10.0	103	69 --- 129		20
1,2,4-Trichlorobenzene	10.2	ug/L			10.0	102	69 --- 130		20
1,2-Dibromo-3-chloropropane	8.79	ug/L			10.0	88	62 --- 128		20
1,2-Dibromoethane	10.3	ug/L			10.0	103	77 --- 121		20
1,2-Dichlorobenzene	10.0	ug/L			10.0	100	80 --- 119		20
1,2-Dichloroethane	11.0	ug/L			10.0	110	73 --- 128		20
1,2-Dichloropropane	10.6	ug/L			10.0	106	78 --- 122		20
1,3-Dichlorobenzene	10.1	ug/L			10.0	101	80 --- 119		20
1,4-Dichlorobenzene	9.75	ug/L			10.0	98	79 --- 118		20
1,1,2,2-Tetrachloroethane	22.3	ug/L			20.0	112	70 --- 136		20
2-Butanone	101	ug/L			100	101	56 --- 143		20
2-Hexanone	94.7	ug/L			100	95	57 --- 139		20
4-Methyl-2-pentanone	106	ug/L			100	106	67 --- 130		20
Acetone	91.6	ug/L			100	92	39 --- 160		20
Benzene	11.2	ug/L			10.0	112	79 --- 120		20
Bromochloromethane	11.5	ug/L			10.0	115	78 --- 123		20
Bromodichloromethane	11.2	ug/L			10.0	112	79 --- 125		20
Bromoform	9.86	ug/L			10.0	99	66 --- 130		20
Bromomethane	11.3	ug/L			10.0	113	53 --- 141		20
Carbon disulfide	22.2	ug/L			20.0	111	64 --- 133		20
Carbon tetrachloride	11.3	ug/L			10.0	113	72 --- 136		20
Chlorobenzene	10.2	ug/L			10.0	102	82 --- 118		20
Chloroethane	11.5	ug/L			10.0	115	60 --- 138		20
Chloroform	11.2	ug/L			10.0	112	79 --- 124		20
Chloromethane	10.2	ug/L			10.0	102	50 --- 139		20
cis-1,2-Dichloroethene	11.5	ug/L			10.0	115	78 --- 123		20
cis-1,3-Dichloropropene	11.0	ug/L			10.0	110	75 --- 124		20
Cyclohexane	11.3	ug/L			10.0	113	71 --- 130		20
Dibromochloromethane	10.2	ug/L			10.0	102	74 --- 126		20
Dichlorodifluoromethane	11.5	ug/L			10.0	115	32 --- 152		20
Ethylbenzene	10.5	ug/L			10.0	105	79 --- 121		20
Isopropylbenzene	10.9	ug/L			10.0	109	72 --- 131		20
m & p-Xylene	21.3	ug/L			20.0	106	80 --- 121		20
Methyl acetate	10.7	ug/L			10.0	107	56 --- 136		20
Methyl tert-butyl ether	11.0	ug/L			10.0	110	71 --- 124		20
Methylcyclohexane	11.5	ug/L			10.0	115	72 --- 132		20
Methylene chloride	11.0	ug/L			10.0	110	74 --- 124		20
o-Xylene	10.4	ug/L			10.0	104	78 --- 122		20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Lab Control Spike Water

Analytical Run #:	265074	Analysis Date:	9/12/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1233471	Analysis Time:	12:43	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Styrene	10.2	ug/L			10.0	102	78 --- 123		20
Tetrachloroethene	11.4	ug/L			10.0	114	74 --- 129		20
Toluene	11.4	ug/L			10.0	114	80 --- 121		20
trans-1,2-Dichloroethene	11.7	ug/L			10.0	117	75 --- 124		20
trans-1,3-Dichloropropene	10.9	ug/L			10.0	109	73 --- 127		20
Trichloroethene	11.4	ug/L			10.0	114	79 --- 123		20
Trichlorofluoromethane	11.6	ug/L			10.0	116	65 --- 141		20
Vinyl chloride	11.3	ug/L			10.0	113	58 --- 137		20

Method Blank Water

Analytical Run #:	265074	Analysis Date:	9/12/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1233477	Analysis Time:	13:39	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.38	ug/L		U	0		0.60		
1,1,2,2-Tetrachloroethane	0.36	ug/L		U	0		0.55		
1,1,2-Trichloroethane	0.27	ug/L		U	0		0.55		
1,1-Dichloroethane	0.28	ug/L		U	0		0.55		
1,1-Dichloroethene	0.49	ug/L		U	0		1.0		
1,2,3-Trichlorobenzene	0.43	ug/L		U	0		1.0		
1,2,4-Trichlorobenzene	0.50	ug/L		U	0		1.0		
1,2-Dibromo-3-chloropropane	0.35	ug/L		U	0		1.0		
1,2-Dibromoethane	0.33	ug/L		U	0		0.55		
1,2-Dichlorobenzene	0.35	ug/L		U	0		0.55		
1,2-Dichloroethane	0.69	ug/L		U	0		1.05		
1,2-Dichloropropane	0.37	ug/L		U	0		0.60		
1,3-Dichlorobenzene	0.30	ug/L		U	0		0.55		
1,4-Dichlorobenzene	0.33	ug/L		U	0		0.55		
112Trichloro122trifluoroethane	1.5	ug/L		U	0		2.25		
2-Butanone	2.9	ug/L		U	0		5.5		
2-Hexanone	3.3	ug/L		U	0		5.5		
4-Methyl-2-pentanone	3.7	ug/L		U	0		6.0		
Acetone	4.1	ug/L		U	0		10		
Benzene	0.47	ug/L		U	0		1.0		
Bromochloromethane	0.26	ug/L		U	0		0.55		
Bromodichloromethane	0.080	ug/L		U	0		0.25		
Bromoform	0.50	ug/L		U	0		1.0		
Bromomethane	0.49	ug/L		U	0		1.0		
Carbon disulfide	0.83	ug/L		U	0		2.0		
Carbon tetrachloride	0.37	ug/L		U	0		0.60		
Chlorobenzene	0.37	ug/L		U	0		0.60		
Chloroethane	0.36	ug/L		U	0		1.0		
Chloroform	0.46	ug/L		U	0		0.70		
Chloromethane	0.39	ug/L		U	0		1.0		
cis-1,2-Dichloroethene	0.41	ug/L		U	0		0.65		
cis-1,3-Dichloropropene	0.34	ug/L		U	0		0.55		
Cyclohexane	0.71	ug/L		U	0		1.1		
Dibromochloromethane	0.35	ug/L		U	0		0.55		
Dichlorodifluoromethane	0.63	ug/L		U	0		1.05		
Ethylbenzene	0.42	ug/L		U	0		0.65		
Isopropylbenzene	0.39	ug/L		U	0		0.60		
m & p-Xylene	0.74	ug/L		U	0		1.15		
Methyl acetate	0.34	ug/L		U	0		1.0		
Methyl tert-butyl ether	0.28	ug/L		U	0		0.55		
Methylcyclohexane	0.78	ug/L		U	0		1.2		
Methylene chloride	1.2	ug/L		U	0		2.05		
o-Xylene	0.72	ug/L		U	0		1.1		

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Method Blank Water

Analytical Run #:	265074	Analysis Date:	9/12/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1233477	Analysis Time:	13:39	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Styrene	0.33	ug/L		U	0		0.55		
Tetrachloroethene	0.54	ug/L		U	0		1.0		
Toluene	0.27	ug/L		U	0		0.55		
trans-1,2-Dichloroethene	0.35	ug/L		U	0		0.55		
trans-1,3-Dichloropropene	0.56	ug/L		U	0		1.05		
Trichloroethene	0.39	ug/L		U	0		0.60		
Trichlorofluoromethane	0.41	ug/L		U	0		1.0		
Vinyl chloride	0.12	ug/L		U	0		0.25		

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	265127	Analysis Date:	9/13/2022	Prep Batch #:	126762	Matrix:	SOLID
CTLab #:	1232306	Analysis Time:	11:12	Prep Date/Time:	09/09/2022 13:30	Method:	SW8082
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	515	ug/kg			500	103	47 --- 134		30
Aroclor-1221	0				0.5	0	70 --- 130		30
Aroclor-1232	0				0.5	0	70 --- 130		30
Aroclor-1242	0				0.5	0	70 --- 130		30
Aroclor-1248	0				0.5	0	70 --- 130		30
Aroclor-1254	0				0.5	0	67 --- 135		30
Aroclor-1260	515	ug/kg			500	103	53 --- 140		30
Aroclor-1262	0				0.5	0	70 --- 130		30
Aroclor-1268	0				0.5	0	70 --- 130		30

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	265127	Analysis Date:	9/13/2022	Prep Batch #:	126762	Matrix:	SOLID
CTLab #:	1232305	Analysis Time:	10:50	Prep Date/Time:	09/09/2022 13:30	Method:	SW8082
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	17	ug/kg		U				30	
Aroclor-1221	28	ug/kg		U				40	
Aroclor-1232	11	ug/kg		U				30	
Aroclor-1242	10	ug/kg		U				30	
Aroclor-1248	14	ug/kg		U				30	
Aroclor-1254	18	ug/kg		U				30	
Aroclor-1260	11	ug/kg		U	0			30	
Aroclor-1262	10	ug/kg		U				30	
Aroclor-1268	17	ug/kg		U				30	

Matrix Spike Duplicate Soil

Analytical Run #:	265127	Analysis Date:	9/13/2022	Prep Batch #:	126762	Matrix:	SOIL
CTLab #:	1232309	Analysis Time:	12:38	Prep Date/Time:	09/09/2022 13:30	Method:	SW8082
Parent Sample #:	1232308	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	1790	ug/kg	BDL		544	329	47 --- 134	53	30
Aroclor-1221	610		BDL	U	0.544	4	70 --- 130	200	30
Aroclor-1232	240		BDL	U	0.544	4	70 --- 130	200	30
Aroclor-1242	218		BDL	U	0.544	4	70 --- 130	200	30
Aroclor-1248	305		BDL	U	0.544	4	70 --- 130	200	30
Aroclor-1254	392		7040	U	0.544	0	67 --- 135	200	30
Aroclor-1260	3920	ug/kg	BDL		544	721	53 --- 140	39	30
Aroclor-1262	218		BDL	U	0.544	4	70 --- 130	200	30
Aroclor-1268	370		BDL	U	0.544	4	70 --- 130	200	30
Surr: 2,4,5,6-TCMX	103	% Recovery			100	103	54 --- 135	0	
Surr: DCBP	101	% Recovery			100	101	54 --- 141	0	

Matrix Spike Soil

Analytical Run #:	265127	Analysis Date:	9/13/2022	Prep Batch #:	126762	Matrix:	SOIL
CTLab #:	1232308	Analysis Time:	12:17	Prep Date/Time:	09/09/2022 13:30	Method:	SW8082
Parent Sample #:	1232149	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	3050	ug/kg	BDL		541	564	47 --- 134		30
Aroclor-1221	605		BDL	U	0.541	0	70 --- 130		30
Aroclor-1232	238		BDL	U	0.541	0	70 --- 130		30
Aroclor-1242	216		BDL	U	0.541	0	70 --- 130		30
Aroclor-1248	303		BDL	U	0.541	0	70 --- 130		30
Aroclor-1254	389		7040	U	0.541	0	67 --- 135		30
Aroclor-1260	5770	ug/kg	BDL		541	1067	53 --- 140		30
Aroclor-1262	216		BDL	U	0.541	0	70 --- 130		30
Aroclor-1268	368		BDL	U	0.541	0	70 --- 130		30
Surr: 2,4,5,6-TCMX	104	% Recovery			100	104	54 --- 135		
Surr: DCBP	130	% Recovery			100	130	54 --- 141		

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Lab Control Spike Duplicate Soil

Analytical Run #:	265136	Analysis Date:	9/13/2022	Prep Batch #:	126787	Matrix:	SOLID
CTLab #:	1233430	Analysis Time:	12:27	Prep Date/Time:	09/12/2022 14:32	Method:	ORTPHG
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Gasoline Range Organics	19.6	mg/kg			20.0	98	80 --- 120	2	20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	265136	Analysis Date:	9/13/2022	Prep Batch #:	126787	Matrix:	SOLID
CTLab #:	1233429	Analysis Time:	09:35	Prep Date/Time:	09/12/2022 14:32	Method:	ORTPHG
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Gasoline Range Organics	20.0	mg/kg			20.0	100	80 --- 120		20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	265136	Analysis Date:	9/13/2022	Prep Batch #:	126787	Matrix:	SOLID
CTLab #:	1233428	Analysis Time:	11:18	Prep Date/Time:	09/12/2022 14:32	Method:	ORTPHG
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Gasoline Range Organics	1.0	mg/kg		U	0		2.5		

Lab Control Spike Soil

Analytical Run #:	265157	Analysis Date:	9/14/2022	Prep Batch #:	126761	Matrix:	SOLID
CTLab #:	1232283	Analysis Time:	11:49	Prep Date/Time:	09/09/2021 13:30	Method:	SW8270D
Parent Sample #:		Analyst:	ALD	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	1250	ug/kg			2000	62	40 --- 117		20
1,2,4,5-Tetrachlorobenzene	1280	ug/kg			2000	64	47 --- 106		20
1,4-Dichlorobenzene	1240	ug/kg			2000	62	31 --- 115		20
2,4,5-Trichlorophenol	1500	ug/kg			2000	75	41 --- 124		20
2,4,6-Trichlorophenol	1370	ug/kg			2000	68	39 --- 126		20
2,4-Dichlorophenol	1350	ug/kg			2000	68	40 --- 122		20
2,4-Dimethylphenol	399	ug/kg		Q	2000	20	30 --- 127		20
2,4-Dinitrophenol	1370	ug/kg			2000	68	16 --- 102		20
2,4-Dinitrotoluene	1610	ug/kg			2000	80	48 --- 126		20
2,6-Dinitrotoluene	1470	ug/kg			2000	74	46 --- 124		20
2-Chloronaphthalene	1260	ug/kg			2000	63	41 --- 114		20
2-Chlorophenol	1290	ug/kg			2000	64	34 --- 121		20
2-Methylnaphthalene	1230	ug/kg			2000	62	38 --- 122		20
2-Methylphenol	1100	ug/kg			2000	55	32 --- 122		20
2-Nitroaniline	1510	ug/kg			2000	76	44 --- 127		20
2-Nitrophenol	1250	ug/kg			2000	62	36 --- 123		20
3 & 4-Methylphenol	1210	ug/kg			2000	60	34 --- 119		20
3,3'-Dichlorobenzidine	851	ug/kg			2000	43	22 --- 121		20
3-Nitroaniline	1060	ug/kg			2000	53	33 --- 119		20
4,6-Dinitro-2-methylphenol	1490	ug/kg			2000	74	29 --- 132		20
4-Bromophenyl-phenyl ether	1480	ug/kg			2000	74	46 --- 124		20
4-Chloro-3-methylphenol	1430	ug/kg			2000	72	45 --- 122		20
4-Chloroaniline	712	ug/kg			2000	36	17 --- 106		20
4-Chlorophenyl-phenyl ether	1420	ug/kg			2000	71	45 --- 121		20
4-Nitroaniline	1260	ug/kg			2000	63	44 --- 125		20
4-Nitrophenol	1770	ug/kg			2000	88	30 --- 132		20
Acenaphthene	1400	ug/kg			2000	70	40 --- 123		20
Acenaphthylene	1260	ug/kg			2000	63	32 --- 132		20
Acetophenone	1360	ug/kg			2000	68	33 --- 115		20
Anthracene	1790	ug/kg			2000	90	47 --- 123		20
Atrazine	1540	ug/kg			2000	77	47 --- 127		20
Benzaldehyde	1330	ug/kg			2000	66	6 --- 185		20
Benzo(a)anthracene	1650	ug/kg			2000	82	49 --- 126		20
Benzo(a)pyrene	1480	ug/kg			2000	74	54 --- 129		20
Benzo(b)fluoranthene	1600	ug/kg			2000	80	45 --- 132		20
Benzo(g,h,i)perylene	1460	ug/kg			2000	73	43 --- 134		20
Benzo(k)fluoranthene	1690	ug/kg			2000	84	47 --- 132		20
Bis(2-chloroethoxy)methane	1300	ug/kg			2000	65	36 --- 121		20
Bis(2-chloroethyl)ether	1240	ug/kg			2000	62	31 --- 120		20
Bis(2-chloroisopropyl)ether	1290	ug/kg			2000	64	33 --- 131		20
Bis(2-ethylhexyl)phthalate	1690	ug/kg			2000	84	51 --- 133		20
Butylbenzylphthalate	1670	ug/kg			2000	84	48 --- 132		20
Caprolactam	1860	ug/kg			2000	93	46 --- 117		20

Lab Control Spike Soil

Analytical Run #:	265157	Analysis Date:	9/14/2022	Prep Batch #:	126761	Matrix:	SOLID
CTLab #:	1232283	Analysis Time:	11:49	Prep Date/Time:	09/09/2021 13:30	Method:	SW8270D
Parent Sample #:		Analyst:	ALD	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Carbazole	1730	ug/kg			2000	86	50 --- 123		20
Chrysene	1610	ug/kg			2000	80	50 --- 124		20
Di-n-butylphthalate	1600	ug/kg			2000	80	51 --- 128		20
Di-n-octylphthalate	1740	ug/kg			2000	87	51 --- 128		20
Dibenzo(a,h)anthracene	1590	ug/kg			2000	80	45 --- 134		20
Dibenzofuran	1410	ug/kg			2000	70	44 --- 120		20
Diethylphthalate	1530	ug/kg			2000	76	50 --- 124		20
Dimethylphthalate	1470	ug/kg			2000	74	48 --- 124		20
Fluoranthene	1580	ug/kg			2000	79	50 --- 127		20
Fluorene	1450	ug/kg			2000	72	43 --- 125		20
Hexachlorobenzene	1510	ug/kg			2000	76	45 --- 122		20
Hexachlorobutadiene	1070	ug/kg			2000	54	32 --- 123		20
Hexachlorocyclopentadiene	852	ug/kg			2000	43	35 --- 106		20
Hexachloroethane	1200	ug/kg			2000	60	28 --- 117		20
Indeno(1,2,3-cd)pyrene	1590	ug/kg			2000	80	45 --- 133		20
Isophorone	1270	ug/kg			2000	64	30 --- 122		20
N-Nitroso-di-n-propylamine	1280	ug/kg			2000	64	36 --- 120		20
N-Nitrosodiphenylamine & Diphn	2900	ug/kg			4000	72	38 --- 127		20
Naphthalene	1260	ug/kg			2000	63	35 --- 123		20
Nitrobenzene	1280	ug/kg			2000	64	34 --- 122		20
Pentachlorophenol	1310	ug/kg			2000	66	25 --- 133		20
Phenanthrene	1680	ug/kg			2000	84	50 --- 121		20
Phenol	1250	ug/kg			2000	62	34 --- 121		20
Pyrene	1690	ug/kg			2000	84	47 --- 127		20
Pyridine	1050	ug/kg			2000	52	1 --- 63		20

Method Blank Soil

Analytical Run #:	265157	Analysis Date:	9/14/2022	Prep Batch #:	126761	Matrix:	SOLID
CTLab #:	1232282	Analysis Time:	11:26	Prep Date/Time:	09/09/2021 13:30	Method:	SW8270D
Parent Sample #:		Analyst:	ALD	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	40	ug/kg		U	0			100	
1,2,4,5-Tetrachlorobenzene	100	ug/kg		U	0			200	
1,4-Dichlorobenzene	40	ug/kg		U	0			100	
2,4,5-Trichlorophenol	200	ug/kg		U	0			500	
2,4,6-Trichlorophenol	200	ug/kg		U	0			500	
2,4-Dichlorophenol	230	ug/kg		U	0			500	
2,4-Dimethylphenol	150	ug/kg		U	Q	0		500	
2,4-Dinitrophenol	200	ug/kg		U	0			500	
2,4-Dinitrotoluene	50	ug/kg		U	0			100	
2,6-Dinitrotoluene	50	ug/kg		U	0			100	
2-Chloronaphthalene	40	ug/kg		U	0			100	
2-Chlorophenol	150	ug/kg		U	0			500	
2-Methylnaphthalene	50	ug/kg		U	0			100	
2-Methylphenol	200	ug/kg		U	0			500	
2-Nitroaniline	80	ug/kg		U	0			200	
2-Nitrophenol	300	ug/kg		U	0			500	
3 & 4-Methylphenol	300	ug/kg		U	0			1000	
3,3'-Dichlorobenzidine	80	ug/kg		U	0			200	
3-Nitroaniline	40	ug/kg		U	0			100	
4,6-Dinitro-2-methylphenol	200	ug/kg		U	0			500	
4-Bromophenyl-phenyl ether	50	ug/kg		U	0			100	
4-Chloro-3-methylphenol	200	ug/kg		U	0			500	
4-Chloroaniline	50	ug/kg		U	0			200	
4-Chlorophenyl-phenyl ether	50	ug/kg		U	0			100	
4-Nitroaniline	40	ug/kg		U	0			100	
4-Nitrophenol	300	ug/kg		U	0			500	
Acenaphthene	70	ug/kg		U	0			200	
Acenaphthylene	50	ug/kg		U	0			100	
Acetophenone	50	ug/kg		U	0			100	
Anthracene	40	ug/kg		U	0			100	
Atrazine	40	ug/kg		U	0			100	
Benzaldehyde	50	ug/kg		U	0			100	
Benzo(a)anthracene	40	ug/kg		U	0			100	
Benzo(a)pyrene	40	ug/kg		U	0			100	
Benzo(b)fluoranthene	50	ug/kg		U	0			100	
Benzo(g,h,i)perylene	40	ug/kg		U	0			100	
Benzo(k)fluoranthene	50	ug/kg		U	0			100	
Bis(2-chloroethoxy)methane	40	ug/kg		U	0			100	
Bis(2-chloroethyl)ether	50	ug/kg		U	0			100	
Bis(2-chloroisopropyl)ether	50	ug/kg		U	0			100	
Bis(2-ethylhexyl)phthalate	50	ug/kg		U	0			100	
Butylbenzylphthalate	80	ug/kg		U	0			200	
Caprolactam	100	ug/kg		U	0			200	

Method Blank Soil

Analytical Run #:	265157	Analysis Date:	9/14/2022	Prep Batch #:	126761	Matrix:	SOLID
CTLab #:	1232282	Analysis Time:	11:26	Prep Date/Time:	09/09/2021 13:30	Method:	SW8270D
Parent Sample #:		Analyst:	ALD	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Carbazole	60	ug/kg		U	0		200		
Chrysene	40	ug/kg		U	0		100		
Di-n-butylphthalate	100	ug/kg		U	0		200		
Di-n-octylphthalate	40	ug/kg		U	0		100		
Dibenzo(a,h)anthracene	50	ug/kg		U	0		100		
Dibenzofuran	40	ug/kg		U	0		100		
Diethylphthalate	40	ug/kg		U	0		100		
Dimethylphthalate	50	ug/kg		U	0		100		
Fluoranthene	40	ug/kg		U	0		100		
Fluorene	50	ug/kg		U	0		100		
Hexachlorobenzene	50	ug/kg		U	0		100		
Hexachlorobutadiene	50	ug/kg		U	0		100		
Hexachlorocyclopentadiene	50	ug/kg		U	0		100		
Hexachloroethane	40	ug/kg		U	0		100		
Indeno(1,2,3-cd)pyrene	40	ug/kg		U	0		100		
Isophorone	40	ug/kg		U	0		100		
N-Nitroso-di-n-propylamine	50	ug/kg		U	0		100		
N-Nitrosodiphenylamine & Diphn	100	ug/kg		U	0		200		
Naphthalene	40	ug/kg		U	0		100		
Nitrobenzene	40	ug/kg		U	0		100		
Pentachlorophenol	200	ug/kg		U	0		500		
Phenanthrene	40	ug/kg		U	0		100		
Phenol	200	ug/kg		U	0		500		
Pyrene	50	ug/kg		U	0		100		
Pyridine	70	ug/kg		U	0		200		

Matrix Spike Duplicate Soil

Analytical Run #:	265157	Analysis Date:	9/14/2022	Prep Batch #:	126761	Matrix:	SOIL
CTLab #:	1232293	Analysis Time:	14:08	Prep Date/Time:	09/09/2021 13:30	Method:	SW8270D
Parent Sample #:	1232292	Analyst:	ALD	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	1630	ug/kg	BDL		2160	75	40 --- 117	18	20
1,2,4,5-Tetrachlorobenzene	1780	ug/kg	BDL		2160	82	47 --- 106	7	20
1,4-Dichlorobenzene	1450	ug/kg	BDL		2160	67	31 --- 115	10	20
2,4,5-Trichlorophenol	1660	ug/kg	BDL		2160	77	41 --- 124	4	20
2,4,6-Trichlorophenol	1600	ug/kg	BDL		2160	74	39 --- 126	9	20
2,4-Dichlorophenol	1670	ug/kg	BDL		2160	77	40 --- 122	12	20
2,4-Dimethylphenol	357	ug/kg	BDL	Q	2160	17	30 --- 127	25	20
2,4-Dinitrophenol	1190	ug/kg	BDL		2160	55	16 --- 102	4	20
2,4-Dinitrotoluene	1750	ug/kg	BDL		2160	81	48 --- 126	11	20
2,6-Dinitrotoluene	1650	ug/kg	BDL		2160	76	46 --- 124	9	20
2-Chloronaphthalene	1590	ug/kg	BDL		2160	74	41 --- 114	21	20
2-Chlorophenol	1510	ug/kg	BDL		2160	70	34 --- 121	9	20
2-Methylnaphthalene	1670	ug/kg	137		2160	71	38 --- 122	4	20
2-Methylphenol	1270	ug/kg	BDL		2160	59	32 --- 122	8	20
2-Nitroaniline	1630	ug/kg	BDL		2160	75	44 --- 127	9	20
2-Nitrophenol	1460	ug/kg	BDL		2160	68	36 --- 123	4	20
3 & 4-Methylphenol	1460	ug/kg	BDL		2160	68	34 --- 119	7	20
3,3'-Dichlorobenzidine	86.5	ug/kg	BDL	U	2160	0	22 --- 121	0	20
3-Nitroaniline	217	ug/kg	BDL		2160	10	33 --- 119	3	20
4,6-Dinitro-2-methylphenol	1370	ug/kg	BDL		2160	63	29 --- 132	4	20
4-Bromophenyl-phenyl ether	1710	ug/kg	BDL		2160	79	46 --- 124	10	20
4-Chloro-3-methylphenol	1480	ug/kg	BDL		2160	69	45 --- 122	10	20
4-Chloroaniline	54.1	ug/kg	BDL	U	2160	0	17 --- 106	0	20
4-Chlorophenyl-phenyl ether	1690	ug/kg	BDL		2160	78	45 --- 121	9	20
4-Nitroaniline	555	ug/kg	BDL		2160	26	44 --- 125	12	20
4-Nitrophenol	1570	ug/kg	BDL		2160	73	30 --- 132	7	20
Acenaphthene	1790	ug/kg	BDL		2160	83	40 --- 123	10	20
Acenaphthylene	1600	ug/kg	BDL		2160	74	32 --- 132	10	20
Acetophenone	1670	ug/kg	BDL		2160	77	25 --- 96	9	20
Anthracene	2280	ug/kg	223		2160	95	47 --- 123	16	20
Atrazine	1600	ug/kg	BDL		2160	74	47 --- 127	3	20
Benzaldehyde	1690	ug/kg	110		2160	73	6 --- 185	10	20
Benzo(a)anthracene	3050	ug/kg	1060		2160	92	49 --- 126	5	20
Benzo(a)pyrene	2590	ug/kg	1010		2160	73	45 --- 129	1	20
Benzo(b)fluoranthene	3610	ug/kg	2280		2160	62	45 --- 132	4	20
Benzo(g,h,i)perylene	2100	ug/kg	436		2160	77	43 --- 134	12	20
Benzo(k)fluoranthene	2510	ug/kg	571		2160	90	47 --- 132	6	20
Bis(2-chloroethoxy)methane	1560	ug/kg	BDL		2160	72	36 --- 121	7	20
Bis(2-chloroethyl)ether	1440	ug/kg	BDL		2160	67	31 --- 120	9	20
Bis(2-chloroisopropyl)ether	1520	ug/kg	BDL		2160	70	33 --- 131	8	20
Bis(2-ethylhexyl)phthalate	4140	ug/kg	BDL		2160	192	51 --- 133	188	20
Butylbenzylphthalate	2120	ug/kg	197		2160	89	48 --- 132	11	20
Caprolactam	2030	ug/kg	BDL		2160	94	46 --- 117	8	20

Matrix Spike Duplicate Soil

Analytical Run #:	265157	Analysis Date:	9/14/2022	Prep Batch #:	126761	Matrix:	SOIL
CTLab #:	1232293	Analysis Time:	14:08	Prep Date/Time:	09/09/2021 13:30	Method:	SW8270D
Parent Sample #:	1232292	Analyst:	ALD	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Carbazole	1950	ug/kg	118		2160	85	50 --- 123	9	20
Chrysene	2920	ug/kg	1070		2160	86	50 --- 124	9	20
Di-n-butylphthalate	1560	ug/kg	139		2160	66	51 --- 128	96	20
Di-n-octylphthalate	1670	ug/kg	BDL		2160	77	45 --- 140	99	20
Dibenzo(a,h)anthracene	1920	ug/kg	BDL		2160	89	45 --- 134	3	20
Dibenzofuran	1750	ug/kg	55.6		2160	78	44 --- 120	11	20
Diethylphthalate	1700	ug/kg	BDL		2160	79	50 --- 124	9	20
Dimethylphthalate	1640	ug/kg	BDL		2160	76	48 --- 124	9	20
Fluoranthene	3720	ug/kg	1810		2160	88	50 --- 127	8	20
Fluorene	1780	ug/kg	58.5		2160	80	43 --- 125	10	20
Hexachlorobenzene	1730	ug/kg	BDL		2160	80	45 --- 122	11	20
Hexachlorobutadiene	1280	ug/kg	BDL		2160	59	32 --- 123	7	20
Hexachlorocyclopentadiene	54.1	ug/kg	BDL	U	2160	0	35 --- 106	200	20
Hexachloroethane	884	ug/kg	BDL		2160	41	28 --- 117	9	20
Indeno(1,2,3-cd)pyrene	3100	ug/kg	577		2160	117	45 --- 133	4	20
Isophorone	1510	ug/kg	BDL		2160	70	30 --- 122	5	20
N-Nitroso-di-n-propylamine	1550	ug/kg	BDL		2160	72	36 --- 120	8	20
N-Nitrosodiphenylamine & Diphn	3270	ug/kg	BDL		4320	76	38 --- 127	6	20
Naphthalene	1630	ug/kg	153		2160	68	35 --- 123	6	20
Nitrobenzene	1510	ug/kg	BDL		2160	70	34 --- 122	6	20
Pentachlorophenol	1310	ug/kg	BDL		2160	61	25 --- 133	3	20
Phenanthrene	3260	ug/kg	965		2160	106	50 --- 121	11	20
Phenol	1420	ug/kg	BDL		2160	66	34 --- 121	4	20
Pyrene	4440	ug/kg	1940		2160	116	47 --- 127	10	20
Pyridine	458	ug/kg	BDL		2160	21	1 --- 63	1	20
Surr: 2,4,6-Tribromophenol	63.7	% Recovery			100	63.7	39 --- 132	0	
Surr: 2-Fluorobiphenyl	75.3	% Recovery			100	75.3	44 --- 115	0	
Surr: 2-Fluorophenol	60.9	% Recovery			100	60.9	35 --- 115	0	
Surr: Nitrobenzene-d5	70.4	% Recovery			100	70.4	37 --- 122	0	
Surr: Phenol-d5	67.3	% Recovery			100	67.3	33 --- 122	0	
Surr: Terphenyl-d14	100	% Recovery			100	100	54 --- 127	0	

Matrix Spike Soil

Analytical Run #:	265157	Analysis Date:	9/14/2022	Prep Batch #:	126761	Matrix:	SOIL
CTLab #:	1232292	Analysis Time:	13:45	Prep Date/Time:	09/09/2021 13:30	Method:	SW8270D
Parent Sample #:	1232149	Analyst:	ALD	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	1380	ug/kg	BDL		2180	63	40 --- 117		20
1,2,4,5-Tetrachlorobenzene	1680	ug/kg	BDL		2180	77	47 --- 106		20
1,4-Dichlorobenzene	1320	ug/kg	BDL		2180	61	31 --- 115		20
2,4,5-Trichlorophenol	1610	ug/kg	BDL		2180	74	41 --- 124		20
2,4,6-Trichlorophenol	1480	ug/kg	BDL		2180	68	39 --- 126		20
2,4-Dichlorophenol	1490	ug/kg	BDL		2180	68	40 --- 122		20
2,4-Dimethylphenol	280	ug/kg	BDL	Q	2180	13	30 --- 127		20
2,4-Dinitrophenol	1160	ug/kg	BDL		2180	53	16 --- 102		20
2,4-Dinitrotoluene	1580	ug/kg	BDL		2180	72	48 --- 126		20
2,6-Dinitrotoluene	1520	ug/kg	BDL		2180	70	46 --- 124		20
2-Chloronaphthalene	1300	ug/kg	BDL		2180	60	41 --- 114		20
2-Chlorophenol	1390	ug/kg	BDL		2180	64	34 --- 121		20
2-Methylnaphthalene	1610	ug/kg	137		2180	68	38 --- 122		20
2-Methylphenol	1180	ug/kg	BDL		2180	54	32 --- 122		20
2-Nitroaniline	1500	ug/kg	BDL		2180	69	44 --- 127		20
2-Nitrophenol	1420	ug/kg	BDL		2180	65	36 --- 123		20
3 & 4-Methylphenol	1370	ug/kg	BDL		2180	63	34 --- 119		20
3,3'-Dichlorobenzidine	87.3	ug/kg	BDL	U	2180	0	22 --- 121		20
3-Nitroaniline	226	ug/kg	BDL		2180	10	33 --- 119		20
4,6-Dinitro-2-methylphenol	1340	ug/kg	BDL		2180	61	29 --- 132		20
4-Bromophenyl-phenyl ether	1560	ug/kg	BDL		2180	72	46 --- 124		20
4-Chloro-3-methylphenol	1340	ug/kg	BDL		2180	61	45 --- 122		20
4-Chloroaniline	54.5	ug/kg	BDL	U	2180	0	17 --- 106		20
4-Chlorophenyl-phenyl ether	1550	ug/kg	BDL		2180	71	45 --- 121		20
4-Nitroaniline	498	ug/kg	BDL		2180	23	44 --- 125		20
4-Nitrophenol	1470	ug/kg	BDL		2180	67	30 --- 132		20
Acenaphthene	1620	ug/kg	BDL		2180	74	40 --- 123		20
Acenaphthylene	1460	ug/kg	BDL		2180	67	32 --- 132		20
Acetophenone	1550	ug/kg	BDL		2180	71	25 --- 96		20
Anthracene	1970	ug/kg	223		2180	80	47 --- 123		20
Atrazine	1670	ug/kg	BDL		2180	77	47 --- 127		20
Benzaldehyde	1540	ug/kg	110		2180	66	6 --- 185		20
Benzo(a)anthracene	2920	ug/kg	1060		2180	85	49 --- 126		20
Benzo(a)pyrene	2650	ug/kg	1010		2180	75	45 --- 129		20
Benzo(b)fluoranthene	3800	ug/kg	2280		2180	70	45 --- 132		20
Benzo(g,h,i)perylene	2390	ug/kg	436		2180	90	43 --- 134		20
Benzo(k)fluoranthene	2690	ug/kg	571		2180	97	47 --- 132		20
Bis(2-chloroethoxy)methane	1470	ug/kg	BDL		2180	67	36 --- 121		20
Bis(2-chloroethyl)ether	1340	ug/kg	BDL		2180	61	31 --- 120		20
Bis(2-chloroisopropyl)ether	1420	ug/kg	BDL		2180	65	33 --- 131		20
Bis(2-ethylhexyl)phthalate	132000	ug/kg	<2730		2180	6042	51 --- 133		20
Butylbenzylphthalate	1910	ug/kg	197		2180	79	48 --- 132		20
Caprolactam	1880	ug/kg	BDL		2180	86	46 --- 117		20

Matrix Spike Soil

Analytical Run #:	265157	Analysis Date:	9/14/2022	Prep Batch #:	126761	Matrix:	SOIL
CTLab #:	1232292	Analysis Time:	13:45	Prep Date/Time:	09/09/2021 13:30	Method:	SW8270D
Parent Sample #:	1232149	Analyst:	ALD	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Carbazole	1800	ug/kg	118		2180	77	50 --- 123		20
Chrysene	2700	ug/kg	1070		2180	75	50 --- 124		20
Di-n-butylphthalate	4500	ug/kg	139		2180	200	51 --- 128		20
Di-n-octylphthalate	4990	ug/kg	BDL		2180	229	45 --- 140		20
Dibenzo(a,h)anthracene	1890	ug/kg	<545		2180	80	45 --- 134		20
Dibenzofuran	1580	ug/kg	55.6		2180	70	44 --- 120		20
Diethylphthalate	1570	ug/kg	BDL		2180	72	50 --- 124		20
Dimethylphthalate	1510	ug/kg	BDL		2180	69	48 --- 124		20
Fluoranthene	3460	ug/kg	1810		2180	76	50 --- 127		20
Fluorene	1620	ug/kg	58.5		2180	72	43 --- 125		20
Hexachlorobenzene	1560	ug/kg	BDL		2180	72	45 --- 122		20
Hexachlorobutadiene	1210	ug/kg	BDL		2180	56	32 --- 123		20
Hexachlorocyclopentadiene	54.5	ug/kg	BDL	U	2180	0	35 --- 106		20
Hexachloroethane	976	ug/kg	BDL		2180	45	28 --- 117		20
Indeno(1,2,3-cd)pyrene	3270	ug/kg	577		2180	124	45 --- 133		20
Isophorone	1460	ug/kg	BDL		2180	67	30 --- 122		20
N-Nitroso-di-n-propylamine	1450	ug/kg	BDL		2180	67	36 --- 120		20
N-Nitrosodiphenylamine & Diphn	3100	ug/kg	BDL		4360	71	38 --- 127		20
Naphthalene	1550	ug/kg	153		2180	64	35 --- 123		20
Nitrobenzene	1440	ug/kg	BDL		2180	66	34 --- 122		20
Pentachlorophenol	1290	ug/kg	BDL		2180	59	25 --- 133		20
Phenanthrene	2960	ug/kg	965		2180	92	50 --- 121		20
Phenol	1390	ug/kg	BDL		2180	64	34 --- 121		20
Pyrene	4060	ug/kg	1940		2180	97	47 --- 127		20
Pyridine	457	ug/kg	BDL		2180	21	1 --- 63		20
Surr: 2,4,6-Tribromophenol	60.7	% Recovery			100	60.7	39 --- 132		
Surr: 2-Fluorobiphenyl	69.0	% Recovery			100	69.0	44 --- 115		
Surr: 2-Fluorophenol	57.0	% Recovery			100	57.0	35 --- 115		
Surr: Nitrobenzene-d5	65.0	% Recovery			100	65.0	37 --- 122		
Surr: Phenol-d5	64.6	% Recovery			100	64.6	33 --- 122		
Surr: Terphenyl-d14	93.7	% Recovery			100	93.7	54 --- 127		

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Lab Control Spike Duplicate Soil

Analytical Run #:	265189	Analysis Date:	9/14/2022	Prep Batch #:	126793	Matrix:	SOLID
CTLab #:	1233560	Analysis Time:	14:13	Prep Date/Time:	09/13/2022 14:00	Method:	ORTPHD
Parent Sample #:	1233559	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Diesel Range Organics	37.7	mg/kg			40.0	94	70 --- 120	13	20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	265189	Analysis Date:	9/14/2022	Prep Batch #:	126793	Matrix:	SOLID
CTLab #:	1233559	Analysis Time:	11:37	Prep Date/Time:	09/13/2022 14:00	Method:	ORTPHD
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Diesel Range Organics	33.2	mg/kg			40.0	83	70 --- 120		20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	265189	Analysis Date:	9/14/2022	Prep Batch #:	126793	Matrix:	SOLID
CTLab #:	1233558	Analysis Time:	11:05	Prep Date/Time:	09/13/2022 14:00	Method:	ORTPHD
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Diesel Range Organics	1.5	mg/kg		U	0		3.0		

Lab Control Spike Water

Analytical Run #:	265215	Analysis Date:	9/14/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1234841	Analysis Time:	20:33	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	1.10	mg/L			1.0	110	71 --- 131		20
1,2-Dichloroethane	1.01	mg/L			1.0	101	73 --- 128		20
2-Butanone	10.0	mg/L			10.0	100	56 --- 143		20
Benzene	1.06	mg/L			1.0	106	79 --- 120		20
Carbon tetrachloride	1.05	mg/L			1.0	105	72 --- 136		20
Chlorobenzene	1.03	mg/L			1.0	103	82 --- 118		20
Chloroform	1.04	mg/L			1.0	104	79 --- 124		20
Tetrachloroethene	1.10	mg/L			1.0	110	74 --- 129		20
Trichloroethene	1.04	mg/L			1.0	104	79 --- 123		20
Vinyl chloride	1.07	mg/L			1.0	107	58 --- 137		20

TETRA TECH

Project Name: CHUDNOW RV

SDG #: 0

Folder #: 172047

Project #: 103X903100320001DH108

Method Blank Water

Analytical Run #:	265215	Analysis Date:	9/14/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1234843	Analysis Time:	21:31	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	0.00049	mg/L		U	0		0.0010		
1,2-Dichloroethane	0.00069	mg/L		U	0		0.00105		
2-Butanone	0.0029	mg/L		U	0		0.0055		
Benzene	0.00047	mg/L		U	0		0.0010		
Carbon tetrachloride	0.00037	mg/L		U	0		0.0006		
Chlorobenzene	0.00037	mg/L		U	0		0.0006		
Chloroform	0.00046	mg/L		U	0		0.0007		
Tetrachloroethene	0.00054	mg/L		U	0		0.0010		
Trichloroethene	0.00039	mg/L		U	0		0.0006		
Vinyl chloride	0.00012	mg/L		U	0		0.00025		

Matrix Spike Duplicate Water

Analytical Run #:	265215	Analysis Date:	9/15/2022	Prep Batch #:	Matrix:	TCLP
CTLab #:	1234849	Analysis Time:	05:35	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	1234848	Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	1.05	mg/L	BDL		1.0	105	71 --- 131	1	20
1,2 Dichloroethane-d4	101	% Recovery			100	101	81 --- 118	0	
1,2-Dichloroethane	0.958	mg/L	BDL		1.0	96	73 --- 128	1	20
2-Butanone	9.88	mg/L	BDL		10.0	99	56 --- 143	1	20
Benzene	1.01	mg/L	BDL		1.0	101	79 --- 120	0	20
Bromofluorobenzene	102	% Recovery			100	102	85 --- 114	0	
Carbon tetrachloride	1.01	mg/L	BDL		1.0	101	72 --- 136	2	20
Chlorobenzene	0.979	mg/L	BDL		1.0	98	82 --- 118	1	20
Chloroform	0.991	mg/L	BDL		1.0	99	79 --- 124	1	20
d8-Toluene	100	% Recovery			100	100	89 --- 112	0	
Dibromofluoromethane	99.0	% Recovery			100	99.0	80 --- 119	0	
Tetrachloroethene	1.04	mg/L	BDL		1.0	104	74 --- 129	1	20
Trichloroethene	0.978	mg/L	BDL		1.0	98	79 --- 123	1	20
Vinyl chloride	1.06	mg/L	BDL		1.0	106	58 --- 137	0	20

Matrix Spike Water

Analytical Run #:	265215	Analysis Date:	9/15/2022	Prep Batch #:	Matrix:	TCLP
CTLab #:	1234848	Analysis Time:	05:05	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	1232148	Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	1.04	mg/L	BDL		1.0	104	71 --- 131		20
1,2 Dichloroethane-d4	100	% Recovery			100	100	81 --- 118		
1,2-Dichloroethane	0.965	mg/L	BDL		1.0	96	73 --- 128		20
2-Butanone	9.95	mg/L	BDL		10.0	100	56 --- 143		20
Benzene	1.02	mg/L	BDL		1.0	102	79 --- 120		20
Bromofluorobenzene	101	% Recovery			100	101	85 --- 114		
Carbon tetrachloride	0.985	mg/L	BDL		1.0	98	72 --- 136		20
Chlorobenzene	0.986	mg/L	BDL		1.0	99	82 --- 118		20
Chloroform	0.982	mg/L	BDL		1.0	98	79 --- 124		20
d8-Toluene	101	% Recovery			100	101	89 --- 112		
Dibromofluoromethane	97.0	% Recovery			100	97.0	80 --- 119		
Tetrachloroethene	1.04	mg/L	BDL		1.0	104	74 --- 129		20
Trichloroethene	0.991	mg/L	BDL		1.0	99	79 --- 123		20
Vinyl chloride	1.05	mg/L	BDL		1.0	105	58 --- 137		20

Lab Control Spike Water

Analytical Run #:	265225	Analysis Date:	9/14/2022	Prep Batch #:	126814	Matrix:	LIQUID
CTLab #:	1234372	Analysis Time:	16:11	Prep Date/Time:	09/14/2022 10:00	Method:	SW8270D
Parent Sample #:		Analyst:	ALD	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.104	mg/L			0.2	52	29 --- 112		20
2,4,5-Trichlorophenol	0.137	mg/L			0.2	68	53 --- 123		20
2,4,6-Trichlorophenol	0.127	mg/L			0.2	64	50 --- 125		20
2,4-Dinitrotoluene	0.127	mg/L			0.2	64	57 --- 128		20
2-Methylphenol	0.120	mg/L			0.2	60	30 --- 117		20
3 & 4-Methylphenol	0.116	mg/L			0.2	58	29 --- 110		20
Hexachlorobenzene	0.120	mg/L			0.2	60	53 --- 125		20
Hexachlorobutadiene	0.0874	mg/L			0.2	44	22 --- 124		20
Hexachloroethane	0.0958	mg/L			0.2	48	21 --- 115		20
Nitrobenzene	0.118	mg/L			0.2	59	45 --- 121		20
Pentachlorophenol	0.125	mg/L			0.2	62	35 --- 138		20
Pyridine	0.0794	mg/L			0.2	40	0 --- 106		20

Method Blank Water

Analytical Run #:	265225	Analysis Date:	9/14/2022	Prep Batch #:	126814	Matrix:	LIQUID
CTLab #:	1234371	Analysis Time:	15:47	Prep Date/Time:	09/14/2022 10:00	Method:	SW8270D
Parent Sample #:		Analyst:	ALD	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.00112	mg/L			0		0.0010		
2,4,5-Trichlorophenol	0.0019	mg/L		U	0		0.0050		
2,4,6-Trichlorophenol	0.0017	mg/L		U	0		0.0050		
2,4-Dinitrotoluene	0.00025	mg/L		U	0		0.0010		
2-Methylphenol	0.0015	mg/L		U	0		0.0050		
3 & 4-Methylphenol	0.0034	mg/L		U	0		0.0050		
Hexachlorobenzene	0.00029	mg/L		U	0		0.0010		
Hexachlorobutadiene	0.0004	mg/L			0		0.0010		
Hexachloroethane	0.00146	mg/L			0		0.0010		
Nitrobenzene	0.00030	mg/L		U	0		0.0010		
Pentachlorophenol	0.0016	mg/L		U	0		0.0050		
Pyridine	0.0010	mg/L		U	0		0.0020		

Matrix Spike Duplicate Water

Analytical Run #:	265225	Analysis Date:	9/14/2022	Prep Batch #:	126814	Matrix:	TCLP
CTLab #:	1234375	Analysis Time:	17:21	Prep Date/Time:	09/14/2022 10:00	Method:	SW8270D
Parent Sample #:	1234374	Analyst:	ALD	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.122	mg/L	BDL		0.2	61	29 --- 112	6	20
2,4,5-Trichlorophenol	0.150	mg/L	BDL		0.2	75	53 --- 123	0	20
2,4,6-Trichlorophenol	0.142	mg/L	BDL		0.2	71	50 --- 125	2	20
2,4-Dinitrotoluene	0.147	mg/L	BDL		0.2	74	57 --- 128	2	20
2-Methylphenol	0.129	mg/L	BDL		0.2	64	30 --- 117	5	20
3 & 4-Methylphenol	0.124	mg/L	BDL		0.2	62	29 --- 110	0	20
Hexachlorobenzene	0.138	mg/L	BDL		0.2	69	53 --- 125	3	20
Hexachlorobutadiene	0.112	mg/L	BDL		0.2	56	22 --- 124	6	20
Hexachloroethane	0.114	mg/L	BDL		0.2	57	21 --- 115	8	20
Nitrobenzene	0.137	mg/L	BDL		0.2	68	45 --- 121	1	20
Pentachlorophenol	0.147	mg/L	BDL		0.2	74	35 --- 138	2	20
Pyridine	0.0794	mg/L	BDL		0.2	40	0 --- 106	26	20
Surr: 2,4,6-Tribromophenol	70.7	% Recovery			100	70.7	43 --- 140	0	
Surr: 2-Fluorobiphenyl	64.2	% Recovery			100	64.2	44 --- 119	0	
Surr: 2-Fluorophenol	50.2	% Recovery			100	50.2	19 --- 119	0	
Surr: Nitrobenzene-d5	67.7	% Recovery			100	67.7	44 --- 120	0	
Surr: Phenol-d5	43.4	% Recovery			100	43.4	1 --- 114	0	
Surr: Terphenyl-d14	79.1	% Recovery			100	79.1	50 --- 134	0	

Matrix Spike Water

Analytical Run #:	265225	Analysis Date:	9/14/2022	Prep Batch #:	126814	Matrix:	TCLP
CTLab #:	1234374	Analysis Time:	16:57	Prep Date/Time:	09/14/2022 10:00	Method:	SW8270D
Parent Sample #:	1232148	Analyst:	ALD	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.115	mg/L	BDL		0.2	58	29 --- 112		20
2,4,5-Trichlorophenol	0.150	mg/L	BDL		0.2	75	53 --- 123		20
2,4,6-Trichlorophenol	0.139	mg/L	BDL		0.2	70	50 --- 125		20
2,4-Dinitrotoluene	0.144	mg/L	BDL		0.2	72	57 --- 128		20
2-Methylphenol	0.123	mg/L	BDL		0.2	62	30 --- 117		20
3 & 4-Methylphenol	0.125	mg/L	BDL		0.2	62	29 --- 110		20
Hexachlorobenzene	0.143	mg/L	BDL		0.2	72	53 --- 125		20
Hexachlorobutadiene	0.105	mg/L	BDL		0.2	52	22 --- 124		20
Hexachloroethane	0.105	mg/L	BDL		0.2	52	21 --- 115		20
Nitrobenzene	0.135	mg/L	BDL		0.2	68	45 --- 121		20
Pentachlorophenol	0.150	mg/L	BDL		0.2	75	35 --- 138		20
Pyridine	0.0612	mg/L	BDL		0.2	31	0 --- 106		20
Surr: 2,4,6-Tribromophenol	76.3	% Recovery			100	76.3	43 --- 140		
Surr: 2-Fluorobiphenyl	66.5	% Recovery			100	66.5	44 --- 119		
Surr: 2-Fluorophenol	49.7	% Recovery			100	49.7	19 --- 119		
Surr: Nitrobenzene-d5	66.8	% Recovery			100	66.8	44 --- 120		
Surr: Phenol-d5	45.3	% Recovery			100	45.3	1 --- 114		
Surr: Terphenyl-d14	80.0	% Recovery			100	80.0	50 --- 134		

Sample Condition Report

Folder #:	172047	Print Date / Time:	09/09/2022	10:13
Client:	TETRA TECH	Received Date / Time / By:	09/09/2022	10:09 erc
Project Name:	CHUDNOW RV	Log-In Date / Time / By:	09/09/2022	10:13 erc
Project Phase:	MILWAUKEE, WI	Project #:	103X903100320001DH108	PM: BMS
Coolers:	6158	Temperature:	4.9 C	On Ice: Y
Custody Seals Present :	Y	COC Present:?	Y	Complete? Y
Seal Intact?	Y	Numbers:	DATED AND SIGNED	
Ship Method:	FEDEX EXPRESS	Tracking Number:	7778 8219 6104	
Adequate Packaging:	Y	Temp Blank Enclosed?	Y	

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

TWO (2) CUSTODY SEALS WERE PRESENT AND INTACT UPON RECEIPT - BOTH WERE DATED 9/8/22 AND SIGNED.

A TRIP BLANK WAS RECEIVED IN THE COOLER BUT WAS NOT LISTED ON THE COC.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1232148 CM-WC-SD-E3-220908	AMBER GL	1	N / N	8270,HG,ICP,VOC
Total # of Containers of Type (AMBER GL) = 1				
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1232149 CM-WC-SD-E3-220908	SOLIDS	1	N / N	%SOL
Total # of Containers of Type (SOLIDS) = 1				
1232149 CM-WC-SD-E3-220908	SOLIDS	1	/	%SOL,FLIQ,HG,ICP,K,NA,pH
Total # of Containers of Type (SOLIDS) = 1				
1232149 CM-WC-SD-E3-220908	UNPRES GL	1	/	8270,PCB
Total # of Containers of Type (UNPRES GL) = 1				
1232149 CM-WC-SD-E3-220908	UNPRES GL	1	N / N	SUB
Total # of Containers of Type (UNPRES GL) = 1				
1232149 CM-WC-SD-E3-220908	TERRA CORE	1	N / N	VOC
	TERRA CORE	1	/	VOC
Total # of Containers of Type (TERRA CORE) = 2				
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

1232150 TRIP BLANK

VOA HCL

1

/

VOC

VOA HCL

1

/

VOC

Total # of Containers of Type (VOA HCL) = 2

Condition Code Condition Description

1

Sample Received OK

***Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions**

Designated MS/MSD

Ice Present ☒ Yes ☐ No
Temp 4.4 IR Gun 27
Cooler # 6158

Cooler Receipt Form

Ice Present YES NO
Observed Temperature 4.9
Actual Temperature _____
IR Gun # 29
Initials Em
Date 9/9/22 Time 1009
Cooler #: 6158

CUSTODY SEAL
DATE 9/9/22
SIGNATURE [Signature]

OEC
Quality Environmental Containers
800-255-3960 • 304-255-3900

CUSTODY SEAL
DATE 9/9/22
SIGNATURE [Signature]

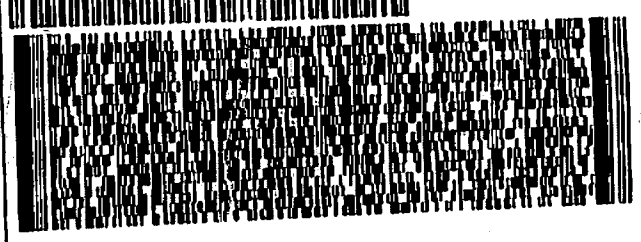
OEC
Quality Environmental Containers
800-255-3960 • 304-255-3900

ORIGIN ID: CHIA (630) 379-3749
RACHEL HOULE
TETRA TECH INC
1 SOUTH WACKER DRIVE SUITE 3700
CHICAGO, IL 60606
UNITED STATES US

SHIP DATE: 08SEP22
ACTWGT: 20.00 LB
CAD: 102185950/NET4530
BILL SENDER

TO DENNIS LINLEY
CT LABORATORIES, LLC
1230 LANGE CT.

BARABOO WI 53913
(808) 358-2760 REF: 103X903100320001CJ106
INV PO DEPT.



FRI - 09 SEP 10:30A
PRIORITY OVERNIGHT

TRK# 7778 8219 6104
0201

55 LNRA

53913
WI-US MSN





Microbac Laboratories Inc., - Marietta, OH

Client Project ID:

Misc non DOD

For:

Brett Szymanski

CT Laboratories

1230 Lange Court

Baraboo, WI 53913

Project State of Origin: Wisconsin

Project Requested Certification:

Microbac Laboratories Inc., - Marietta, OH

E87551

Florida Department of Health

All test results meet the requirements of the QAPP and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. The reported results are related only to the samples analyzed as received. This laboratory report may be released as a hardcopy and in computer-readable form submitted electronically or on diskette. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, Inc.

Laboratory Project Manager:

Alicia Walker

Project Manager

Alicia.Walker@Microbac.com

Authorized By:

Alicia Walker

Project Manager

Issued: 09/20/2022

Microbac Laboratories, Inc.

158 Starlite Drive | Marietta, OH 45750 | 800.373.4071 p | www.microbac.com



Laboratory Report Number: M2I0616
Client Project ID: Misc non DOD

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 9.5°C

Cooler Inspection Checklist

Ice Present or not required?	No
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes



Laboratory Report Number: M2I0616

Client Project ID: Misc non DOD

Case Narrative

Sample received out of the acceptable temperature range. The lab will proceed with analysis.



Laboratory Report Number: M2I0616

Client Project ID: Misc non DOD

Sample Notes

EPA 9014

D1 Dilution was performed due to matrix interference.

Cyanide - Total

M2I0616-01

CM-WC-SD-E3-220908

QC Sample Notes

M2 Matrix spike recovery is outside of acceptance limits, biased low.

EPA 9014

Cyanide - Total

B2I0804-MS1

Matrix Spike

B2I0804-MS1

Matrix Spike

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: CM-WC-SD-E3-220908	Collection Date: 09/08/2022 10:08
Laboratory ID: M2I0616-01	Prep Date: 09/14/2022 06:20
Matrix: Solid	Analyzed: 09/15/2022 03:30
Batch / Sequence: B2I0564 /	Calibration: NA
Analytical Method: ASTM D2216-10	File ID: B2I0564.xls
Instrument: BAL016	Units: % (by wt.)
Analyst: JMH	Dilution: 1
	% Solids: 86.60

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Percent Solids		86.6	0.500	1.00		

Client ID: CM-WC-SD-E3-220908	Collection Date: 09/08/2022 10:08
Laboratory ID: M2I0616-01	Prep Date: 09/20/2022 16:13
Matrix: Solid	Analyzed: 09/20/2022 16:40
Batch / Sequence: B2I0949 /	Calibration: NA
Analytical Method: EPA 9034	File ID: SulfideSOIL_B2I0949_220920043858.xls
Instrument: BURET	Units: mg/kg dry
Analyst: EPT	Dilution: 1
	% Solids: 86.60

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Sulfide as S		ND	57.7	57.7	U	

Client ID: CM-WC-SD-E3-220908	Collection Date: 09/08/2022 10:08
Laboratory ID: M2I0616-01	Prep Date: 09/19/2022 09:10
Matrix: Solid	Analyzed: 09/19/2022 14:26
Batch / Sequence: B2I0804 / S2I0281	Calibration: UNASSIGNED
Analytical Method: EPA 9014	File ID: 22-09-19_01_CN_APH-016
Instrument: SEAL1	Units: mg/kg dry
Analyst: APH	Dilution: 5
	% Solids: 86.60

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Cyanide - Total	57-12-5	ND	0.346	0.693	U	D1



Laboratory Report Number: M2I0616

Client Project ID: Misc non DOD

Notes and Definitions

% (by wt.): Percent by Weight

D1: Dilution was performed due to matrix interference.

U: The analyte was analyzed for but was not detected above the reported quantitation limit. The quantitation limit has been adjusted for any dilution or concentration of the sample.

MDL: Method Detection Limit

RL: Reporting Limit



Laboratory Report Number: M2I0616

Client Project ID: Misc non DOD

METHOD BLANKS

Sample ID: B2I0564-BLK1		Prep Date: 09/14/22 06:20		Matrix: Solid		
Instrument: BAL016		Analyzed: 09/15/22 03:30		Method: ASTM D2216-10		
File ID: B2I0564.xls		Sequence:		Analyst: JMH		
Batch: B2I0564		Units: % (by wt.)		Calibration:		
Analyte		Result	MDL	RL	Dilution	Flag
Percent Solids		99.9	0.500	1.00	1	*

Sample ID: B2I0804-BLK1		Prep Date: 09/19/22 09:10		Matrix: Solid		
Instrument: SEAL1		Analyzed: 09/19/22 12:58		Method: EPA 9014		
File ID: 22-09-19_01_CN_APH		Sequence: S2I0281		Analyst: APH		
Batch: B2I0804		Units: mg/kg wet				
Analyte		Result	MDL	RL	Dilution	Flag
Cyanide - Total		0.0600	0.0600	0.120	1	U

Sample ID: B2I0949-BLK1		Prep Date: 09/20/22 16:35		Matrix: Solid		
Instrument: BURET		Analyzed: 09/20/22 16:40		Method: EPA 9034		
File ID: SulfideSOIL_B2I0949_		Sequence:		Analyst: EPT		
Batch: B2I0949		Units: mg/kg wet		Calibration:		
Analyte		Result	MDL	RL	Dilution	Flag
Sulfide as S		49.8	49.8	49.8	1	U

* - Detected in the associated method Blank at a concentration >= RL



Laboratory Report Number: M2I0616
Client Project ID: Misc non DOD

BLANK SPIKE (BS)

Method: ASTM D2216-10		Blank Spike				
Batch: B2I0564		Spike ID: B2I0564-BS1				
Analyst: JMH		Prepared: 09/14/22 06:20				
Matrix: Solid		Analyzed: 09/15/22 03:30				
Units: % (by wt.)		File ID: B2I0564.xls				
Instrument: BAL016		Initial/Final: 1g/1mL				
Calibration:						
Analyte		BS Spiked	BS Found	BS %Rec	%Rec Limts	Q
Percent Solids		80.0	76.4	95.4	90 - 110	

* - Does not meet %Rec acceptance criteria.
- Does not meet RPD acceptance criteria.



Laboratory Report Number: M2I0616

Client Project ID: Misc non DOD

Method: EPA 9014		Blank Spike			
Batch: B2I0804		Spike ID: B2I0804-BS1			
Analyst: APH		Prepared: 09/19/22 09:10			
Matrix: Solid		Analyzed: 09/19/22 13:00			
Units: mg/kg wet		File ID: 22-09-19_01_CN_APH-014			
Instrument: SEAL1		Initial/Final: 0.5g/6mL			

Analyte	BS Spiked	BS Found	BS %Rec	%Rec Limts	Q
Cyanide - Total	1.16	1.18	102	90 - 110	

* - Does not meet %Rec acceptance criteria.
- Does not meet RPD acceptance criteria.



Laboratory Report Number: M2I0616
Client Project ID: Misc non DOD

Method: EPA 9034		Blank Spike				
Batch: B2I0949		Spike ID: B2I0949-BS1				
Analyst: EPT		Prepared: 09/20/22 16:35				
Matrix: Solid		Analyzed: 09/20/22 16:40				
Units: mg/kg wet		File ID: SulfideSOIL_B2I0949_220920043				
Instrument: BURET		Initial/Final: 24.61g/25mL				
Calibration:						
Analyte		BS Spiked	BS Found	BS %Rec	%Rec Limts	Q
Sulfide as S		903	543	60.2	10 - 150	

* - Does not meet %Rec acceptance criteria.
- Does not meet RPD acceptance criteria.



Laboratory Report Number: M2I0616
Client Project ID: Misc non DOD

Matrix Spike (MS)

Method: EPA 9014		Parent		Spike	
Batch: B2I0804		Sample ID: M2I0616-01		B2I0804-MS1	
Matrix: Solid		Prepared: 09/19/2022 09:10		09/19/22 09:10	
Units: mg/kg dry		Analyzed: 09/19/2022 14:26		09/19/22 15:01	
Instrument: SEAL1		File ID: 22-09-19_01_CN_APH-01E		22-09-19_01_CN_APH-01E	
		Dilution: 5		5	
Analyst: APH					

	Analyte	Parent	MS Spiked	MS Found	MS %Rec	%Rec Limts	Q
	Cyanide - Total	ND	1.96	ND		80 - 120	*



Laboratory Report Number: M2I0616

Client Project ID: Misc non DOD

Method: EPA 9034		Parent		Spike		
Batch: B2I0949		Sample ID: M2I0616-01		B2I0949-MS1		
Matrix: Solid		Prepared: 09/20/2022 16:13		09/20/22 16:35		
Units: mg/kg dry		Analyzed: 09/20/2022 16:40		09/20/22 16:40		
Instrument: BURET		File ID: SulfideSOIL_B2I0949_220		SulfideSOIL_B2I0949_220		
Calibration:		Dilution: 1		1		
Analyst: EPT						

Analyte	Parent	MS Spiked	MS Found	MS %Rec	%Rec Limts	Q
Sulfide as S	ND	1030	455	44.3	10 - 150	

* - Exceeds %Rec Limit

- Exceeds RPD Limit



Laboratory Report Number: M2I0616
Client Project ID: Misc non DOD

DUPLICATE

Parent ID: M2I0616-01		Calibration: UNASSIGNED		Method: EPA 9014	
Instrument: SEAL1		File ID: 22-09-19_01_CN_A		Dil: 5	
Sample ID: B2I0804-DUP1		Batch: B2I0804		Matrix: Solid	
				Units: mg/kg dry	
Analyte		Parent	Duplicate	RPD	RPD Limit
Cyanide - Total		ND	ND		20



Laboratory Report Number: M2I0616

Client Project ID: Misc non DOD

Parent ID: M2I0616-01		Calibration:		Method: EPA 9034	
Instrument: BURET		File ID: SulfideSOIL_B2I094		Matrix: Solid	
Sample ID: B2I0949-DUP1		Batch: B2I0949		Units: mg/kg dry	
Analyte	Parent	Duplicate	RPD	RPD Limit	Q
Sulfide as S	ND	ND		50	

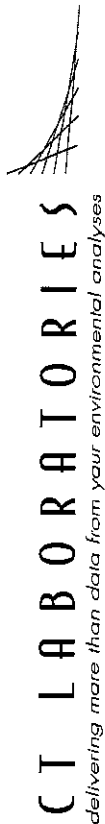


Laboratory Report Number: M2I0616

Client Project ID: Misc non DOD

* - Exceeds RPD Limit

- Based on the low concentration of this analyte, Relative Percent Difference is not an appropriate evaluator of precision. The precision of the duplicate analysis is considered acceptable



1230 Lange Court • Baraboo, WI 53913 • 608-356-2760
www.ctlaboratories.com

Sub-Contract Laboratory Chain-of-Custody and Purchase Order

PURCHASE ORDER #: 172047 MICROBAC

The PO# must appear on all invoice and reports!

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager, Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.

Ship to: Microbac 158 Starlight Drive Marietta, OH 45750 Return Invoice and Results to: bszymanski@ctlaboratories.com

Government UPS Shipping Acct? Y (N) CT Laboratories
Brett M Szymanski
1230 Lange Court
Baraboo WI 53913

Ship by: Speedee ☐ UPS Gmd ☐ UPS 2nd ☐ UPS NDA ☒ Saturday delivery

Date Due: 5-Day TAT RUSH TURNAROUND NEEDED? Y (N) (Circle One)

Project Name: CHUDNOW RV Project State: WI

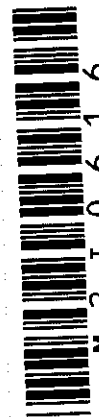
Analytical/QC Criteria: NONE INDICATED STATE DOD QSM NELAP (Circle one) OTHER

Report results as EDD? N (Y) (Circle one and indicate type: Basic Excel) Data Deliverable Package LEVEL: II & IV

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method	Cost
1232149	9/8/2022 10:08	SOIL	CM-WC-SD-E3-220908	CYANIDE, TOTAL	9010/9014
1232149	9/8/2022 10:08	SOIL	CM-WC-SD-E3-220908	SULFIDE, TOTAL	9030/9034

Relinquished by: Brett Szymanski Date/Time: 09/09/2022 10:30
Received by: Brenda Gregory Date/Time: 9/12/22 0945 Receipt Temperature (C) 9.5/1

COMMENTS: Please log using the sample description.

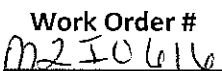


REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED

Form #: FPM1-01
Effective Date: 02/15/14

CT Laboratories
Rec'd: 09/12/2022 09:45
By: Brenda Gregory

Temp: 9.5 (signature)

[illegible]

pH Lot # NA

pH

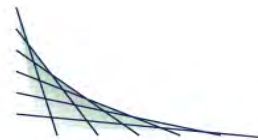
Exceptions

SAMPLE ID	Bottle 1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6
<p>B-9</p> <p>9-12-22</p> <p>PRESERVATIVE EXCEPTIONS</p>						

NONE

✓ AS NOTED

By 9-12-22



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.



ANALYTICAL REPORT

TETRA TECH
 RACHEL HOULE
 1 S WACKER DRIVE
 SUITE 3700
 CHICAGO, IL 60606
 Copy: R5 START LIST

Project Name: CHUDNOW METALS
 Project Phase: MILWAUKEE, WI
 Contract #: 3509
 Project #: 103X903100320001CJ106
 Folder #: 172490
 Purchase Order #: 1168710 / CT-46

Page 1 of 10
 Arrival Temperature: 1.6
 Report Date: 10/6/2022
 Date Received: 9/27/2022
 Reprint Date: 10/6/2022

CT LAB#: 1240173

Sample Description: CM-WC-SC-G1-220926

Client Sample #:

Sampled: 9/26/2022 14:26

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	87.6	%	0.1	0.1	0.1	0.1	1.00			9/30/22 15:10	BMS	EPA 8000C
Free Liquids	Absent						1.00			9/27/22 13:26	HLB	EPA 9095B ^
pH	8.25	S.U.	0.1	0.1	0.1	0.1	1.00			9/27/22 15:00	BRB	EPA 9045D ^
Percent Moisture	12.4	%	0.1	0.1	0.1	0.1	1.00			9/30/22 15:12	BMS	ASTM D2974-87
Metals Results												
Mercury	21.4	mg/kg	3.1	7.3	9.6	9.6	1,000.00	Y,M	10/4/2022 13:55	10/5/22 09:45	MDS	EPA 7471B
Aluminum	8200	mg/kg	2.5	6.0	24	24	1.00	M	9/27/2022 13:33	9/30/22 00:00	NAH	EPA 6010D
Antimony	11	mg/kg	0.18	0.36	1.2	1.2	1.00	M	9/27/2022 13:33	9/30/22 00:00	NAH	EPA 6010D
Arsenic	27	mg/kg	0.23	0.60	1.2	1.2	1.00	M,Y	9/27/2022 13:33	9/30/22 00:00	NAH	EPA 6010D
Barium	1300	mg/kg	0.62	2.4	6.0	6.0	10.00	Y,M	9/27/2022 13:33	9/30/22 00:53	NAH	EPA 6010D
Beryllium	<0.022	mg/kg	0.022	0.060	0.24	0.24	1.00	U	9/27/2022 13:33	9/30/22 00:00	NAH	EPA 6010D
Cadmium	29	mg/kg	0.32	1.2	3.0	3.0	10.00	M	9/27/2022 13:33	9/30/22 00:53	NAH	EPA 6010D
Calcium	28000	mg/kg	3.5	9.6	30	30	1.00	Y,M	9/27/2022 13:33	9/30/22 00:00	NAH	EPA 6010D
Chromium	290	mg/kg	0.085	0.24	0.60	0.60	1.00	Y,M	9/27/2022 13:33	9/30/22 00:00	NAH	EPA 6010D
Cobalt	12	mg/kg	0.054	0.12	0.60	0.60	1.00	M	9/27/2022 13:33	9/30/22 00:00	NAH	EPA 6010D
Copper	2700	mg/kg	1.6	3.6	6.0	6.0	10.00	Y,M	9/27/2022 13:33	9/30/22 00:53	NAH	EPA 6010D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1240173

Sample Description: CM-WC-SC-G1-220926

Client Sample #:

Sampled: 9/26/2022 14:26

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Iron	200000	mg/kg	36	90	180	180	10.00	Y,M	9/27/2022 13:33	9/30/22	00:53 NAH	EPA 6010D
Lead	3800	mg/kg	0.93	2.4	6.0	6.0	10.00	Y,M	9/27/2022 13:33	9/30/22	00:53 NAH	EPA 6010D
Magnesium	14000	mg/kg	4.4	12	30	30	1.00	Y,M	9/27/2022 13:33	9/30/22	00:00 NAH	EPA 6010D
Manganese	2700	mg/kg	0.84	2.4	6.0	6.0	10.00	Y,M	9/27/2022 13:33	9/30/22	00:53 NAH	EPA 6010D
Nickel	770	mg/kg	0.72	2.4	6.0	6.0	10.00	Y,M	9/27/2022 13:33	9/30/22	00:53 NAH	EPA 6010D
Selenium	<0.30	mg/kg	0.30	0.60	1.2	1.2	1.00	U M	9/27/2022 13:33	9/30/22	00:00 NAH	EPA 6010D
Silver	2.3	mg/kg	0.22	0.60	1.2	1.2	1.00		9/27/2022 13:33	9/30/22	00:00 NAH	EPA 6010D
Thallium	1.8	mg/kg	0.26	0.60	1.2	1.2	1.00	M,Y	9/27/2022 13:33	9/30/22	00:00 NAH	EPA 6010D
Vanadium	13	mg/kg	0.061	0.24	0.60	0.60	1.00	Y,M	9/27/2022 13:33	9/30/22	00:00 NAH	EPA 6010D
Zinc	2500	mg/kg	0.079	0.24	0.60	0.60	1.00	M	9/27/2022 13:33	9/30/22	00:00 NAH	EPA 6010D
Potassium	460	mg/kg	41	90	300	300	1.00	Y	9/27/2022 13:33	9/30/22	00:00 NAH	EPA 6010D
Sodium	412	mg/kg	38	120	300	300	1.00	Y	9/27/2022 13:33	9/30/22	00:00 NAH	EPA 6010D

Organic Results

Gasoline Range Organics	15	mg/kg	1.2	2.9	5.8	5.8	1.00	L	9/28/2022 14:42	9/29/22	15:23 TMG	WDNR GRO
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Qualifiers applying to all Analytes of Method EPA 8270D: V

1,1'-Biphenyl	<450	ug/kg	450	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
1,2,4,5-Tetrachlorobenzene	<1100	ug/kg	1100	2300	4500	4500	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
2,4,5-Trichlorophenol	<2300	ug/kg	2300	5600	11000	11000	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
2,4,6-Trichlorophenol	<2300	ug/kg	2300	5600	11000	11000	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
2,4-Dichlorophenol	<2600	ug/kg	2600	5600	11000	11000	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
2,4-Dimethylphenol	<1700	ug/kg	1700	5600	11000	11000	10.00	U Q,Y	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
2,4-Dinitrophenol	<2300	ug/kg	2300	5600	11000	11000	10.00	U M,Z	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
2,4-Dinitrotoluene	<560	ug/kg	560	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
2,6-Dinitrotoluene	<560	ug/kg	560	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
2-Chloronaphthalene	<450	ug/kg	450	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
2-Chlorophenol	<1700	ug/kg	1700	5600	11000	11000	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1240173

Sample Description: CM-WC-SC-G1-220926

Client Sample #:

Sampled: 9/26/2022 14:26

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8270D: V												
2-Methylnaphthalene	897	ug/kg	560	1100	2300	2300	10.00	J M,Y	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
2-Methylphenol	<2300	ug/kg	2300	5600	11000	11000	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
2-Nitroaniline	<900	ug/kg	900	2300	4500	4500	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
2-Nitrophenol	<3400	ug/kg	3400	5600	11000	11000	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
3 & 4-Methylphenol	<3400	ug/kg	3400	11000	23000	23000	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
3,3'-Dichlorobenzidine	<900	ug/kg	900	2300	4500	4500	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
3-Nitroaniline	<450	ug/kg	450	1100	2300	2300	10.00	U Y	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<2300	ug/kg	2300	5600	11000	11000	10.00	U M,Z	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
4-Bromophenyl-phenyl ether	<560	ug/kg	560	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
4-Chloro-3-methylphenol	<2300	ug/kg	2300	5600	11000	11000	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
4-Chloroaniline	<560	ug/kg	560	2300	4500	4500	10.00	U M,Y	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
4-Chlorophenyl-phenyl ether	<560	ug/kg	560	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
4-Nitroaniline	<450	ug/kg	450	1100	2300	2300	10.00	U Y,M	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
4-Nitrophenol	<3400	ug/kg	3400	5600	11000	11000	10.00	U M	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Acenaphthene	<790	ug/kg	790	2300	4500	4500	10.00	U Y,M	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Acenaphthylene	<560	ug/kg	560	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Acetophenone	<560	ug/kg	560	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Anthracene	1710	ug/kg	450	1100	2300	2300	10.00	J M,Y	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Atrazine	<450	ug/kg	450	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Benzaldehyde	<560	ug/kg	560	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Benzo(a)anthracene	4610	ug/kg	450	1100	2300	2300	10.00	M	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Benzo(a)pyrene	4940	ug/kg	450	1100	2300	2300	10.00	M	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Benzo(b)fluoranthene	8760	ug/kg	560	1100	2300	2300	10.00	M	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Benzo(g,h,i)perylene	3570	ug/kg	450	1100	2300	2300	10.00	M	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Benzo(k)fluoranthene	2320	ug/kg	560	1100	2300	2300	10.00	M	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Bis(2-chloroethoxy)methane	<450	ug/kg	450	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1240173

Sample Description: CM-WC-SC-G1-220926

Client Sample #:

Sampled: 9/26/2022 14:26

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8270D: V												
Bis(2-chloroethyl)ether	<560	ug/kg	560	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Bis(2-chloroisopropyl)ether	<560	ug/kg	560	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Bis(2-ethylhexyl)phthalate	16100	ug/kg	560	1100	2300	2300	10.00	M	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Butylbenzylphthalate	1700	ug/kg	900	2300	4500	4500	10.00	J M	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Caprolactam	<1100	ug/kg	1100	2300	4500	4500	10.00	U Y,M	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Carbazole	902	ug/kg	680	2300	4500	4500	10.00	J M	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Chrysene	5000	ug/kg	450	1100	2300	2300	10.00	M,Y	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Di-n-butylphthalate	<1100	ug/kg	1100	2300	4500	4500	10.00	U	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Di-n-octylphthalate	<450	ug/kg	450	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Dibenzo(a,h)anthracene	1320	ug/kg	560	1100	2300	2300	10.00	J M	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Dibenzofuran	617	ug/kg	450	1100	2300	2300	10.00	J Y	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Diethylphthalate	<450	ug/kg	450	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Dimethylphthalate	<560	ug/kg	560	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Fluoranthene	9910	ug/kg	450	1100	2300	2300	10.00	M	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Fluorene	992	ug/kg	560	1100	2300	2300	10.00	J	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Hexachlorobenzene	<560	ug/kg	560	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Hexachlorobutadiene	<560	ug/kg	560	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Hexachlorocyclopentadiene	<560	ug/kg	560	1100	2300	2300	10.00	U M	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Hexachloroethane	<450	ug/kg	450	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Indeno(1,2,3-cd)pyrene	3820	ug/kg	450	1100	2300	2300	10.00		9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Isophorone	<450	ug/kg	450	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
N-Nitroso-di-n-propylamine	<560	ug/kg	560	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
N-Nitrosodiphenylamine & Diphn	<1100	ug/kg	1100	2300	4500	4500	10.00	U	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Naphthalene	1080	ug/kg	450	1100	2300	2300	10.00	J Y	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Nitrobenzene	<450	ug/kg	450	1100	2300	2300	10.00	U	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D
Pentachlorophenol	<2300	ug/kg	2300	5600	11000	11000	10.00	U	9/28/2022 09:30	10/5/22 17:08	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1240173

Sample Description: CM-WC-SC-G1-220926

Client Sample #:

Sampled: 9/26/2022 14:26

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8270D: V												
Phenanthrene	4510	ug/kg	450	1100	2300	2300	10.00	M,Y	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Phenol	<2300	ug/kg	2300	5600	11000	11000	10.00	U	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Pyrene	10000	ug/kg	560	1100	2300	2300	10.00	M	9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	71.7	% Recovery	39			132	10.00		9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Surr: 2-Fluorobiphenyl	76.2	% Recovery	44			115	10.00		9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Surr: 2-Fluorophenol	78.5	% Recovery	35			115	10.00		9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Surr: Nitrobenzene-d5	55.2	% Recovery	37			122	10.00		9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Surr: Phenol-d5	72.9	% Recovery	33			122	10.00		9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Surr: Terphenyl-d14	86.9	% Recovery	54			127	10.00		9/28/2022 09:30	10/5/22	17:08 JJY	EPA 8270D
Diesel Range Organics	6230	mg/kg	86	65	130	86	10.00	Q,L	9/30/2022 08:30	10/3/22	18:55 AJZ	WDNR DRO
Aroclor-1016	<950	ug/kg	950	2200	3400	3400	50.00	U	9/28/2022 09:30	10/3/22	17:22 AJZ	EPA 8082A
Aroclor-1221	<1600	ug/kg	1600	3400	4500	4500	50.00	U	9/28/2022 09:30	10/3/22	17:22 AJZ	EPA 8082A
Aroclor-1232	<620	ug/kg	620	2200	3400	3400	50.00	U	9/28/2022 09:30	10/3/22	17:22 AJZ	EPA 8082A
Aroclor-1242	<560	ug/kg	560	2200	3400	3400	50.00	U	9/28/2022 09:30	10/3/22	17:22 AJZ	EPA 8082A
Aroclor-1248	30400	ug/kg	790	2200	3400	3400	50.00		9/28/2022 09:30	10/3/22	17:22 AJZ	EPA 8082A
Aroclor-1254	22800	ug/kg	1000	2200	3400	3400	50.00		9/28/2022 09:30	10/3/22	17:22 AJZ	EPA 8082A
Aroclor-1260	9880	ug/kg	620	2200	3400	3400	50.00		9/28/2022 09:30	10/3/22	17:22 AJZ	EPA 8082A
Aroclor-1262	<560	ug/kg	560	2200	3400	3400	50.00	U	9/28/2022 09:30	10/3/22	17:22 AJZ	EPA 8082A
Aroclor-1268	<950	ug/kg	950	2200	3400	3400	50.00	U	9/28/2022 09:30	10/3/22	17:22 AJZ	EPA 8082A
PCB, Total	63100	ug/kg	1600	3400	4500	4500	50.00		9/28/2022 09:30	10/3/22	17:22 AJZ	EPA 8082A
Surr: 2,4,5,6-TCMX	0	% Recovery	54			135	50.00	D	9/28/2022 09:30	10/3/22	17:22 AJZ	EPA 8082A
Surr: DCBP	0	% Recovery	54			141	50.00	D	9/28/2022 09:30	10/3/22	17:22 AJZ	EPA 8082A
1,1,1-Trichloroethane	<36	ug/kg	36	120	240	240	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<30	ug/kg	30	60	120	120	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
1,1,2-Trichloroethane	<32	ug/kg	32	120	240	240	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1240173

Sample Description: CM-WC-SC-G1-220926

Client Sample #:

Sampled: 9/26/2022 14:26

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloroethane	<32	ug/kg	32	120	240	240	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
1,1-Dichloroethene	<29	ug/kg	29	60	120	120	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
1,2,3-Trichlorobenzene	<24	ug/kg	24	60	120	120	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
1,2,4-Trichlorobenzene	<16	ug/kg	16	60	120	120	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<18	ug/kg	18	60	120	120	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
1,2-Dibromoethane	<22	ug/kg	22	60	120	120	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
1,2-Dichlorobenzene	<18	ug/kg	18	60	120	120	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
1,2-Dichloroethane	<26	ug/kg	26	60	120	120	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
1,2-Dichloropropane	<31	ug/kg	31	120	240	240	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
1,3-Dichlorobenzene	<17	ug/kg	17	60	120	120	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
1,4-Dichlorobenzene	<18	ug/kg	18	60	120	120	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
112Trichloro122trifluoroethane	<74	ug/kg	74	240	480	480	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
2-Butanone	<340	ug/kg	340	1200	2400	2400	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
2-Hexanone	<180	ug/kg	180	600	1200	1200	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
4-Methyl-2-pentanone	<360	ug/kg	360	1200	2400	2400	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Acetone	<300	ug/kg	300	600	1200	1200	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Benzene	57.8	ug/kg	34	120	240	240	1.00	J	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Bromochloromethane	<37	ug/kg	37	120	240	240	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Bromodichloromethane	<28	ug/kg	28	60	120	120	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Bromoform	<18	ug/kg	18	60	120	120	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Bromomethane	<110	ug/kg	110	240	480	480	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Carbon disulfide	<71	ug/kg	71	240	480	480	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Carbon tetrachloride	<34	ug/kg	34	120	240	240	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Chlorobenzene	<16	ug/kg	16	60	120	120	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Chloroethane	<100	ug/kg	100	240	480	480	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Chloroform	<38	ug/kg	38	120	240	240	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Chloromethane	<40	ug/kg	40	120	240	240	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
cis-1,2-Dichloroethene	89.7	ug/kg	36	120	240	240	1.00	J	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1240173

Sample Description: CM-WC-SC-G1-220926

Client Sample #:

Sampled: 9/26/2022 14:26

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
cis-1,3-Dichloropropene	<35	ug/kg	35	120	240	240	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Cyclohexane	<37	ug/kg	37	120	240	240	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Dibromochloromethane	<18	ug/kg	18	60	120	120	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Dichlorodifluoromethane	<37	ug/kg	37	120	240	240	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Ethylbenzene	164	ug/kg	16	60	120	120	1.00		9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Isopropylbenzene	43.8	ug/kg	16	60	120	120	1.00	J	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
m & p-Xylene	168	ug/kg	30	120	240	240	1.00	J	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Methyl acetate	140	ug/kg	48	120	240	240	1.00	J M	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Methyl tert-butyl ether	<29	ug/kg	29	60	120	120	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Methylcyclohexane	63.2	ug/kg	35	120	240	240	1.00	J	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Methylene chloride	<50	ug/kg	50	120	240	240	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
o-Xylene	77.4	ug/kg	16	60	120	120	1.00	J	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Styrene	260	ug/kg	24	60	120	120	1.00	M	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Tetrachloroethene	85.8	ug/kg	41	120	240	240	1.00	J	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Toluene	146	ug/kg	34	120	240	240	1.00	J	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
trans-1,2-Dichloroethene	<35	ug/kg	35	120	240	240	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
trans-1,3-Dichloropropene	<31	ug/kg	31	120	240	240	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Trichloroethene	54.1	ug/kg	36	120	240	240	1.00	J	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Trichlorofluoromethane	127	ug/kg	36	120	240	240	1.00	J	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Vinyl chloride	<36	ug/kg	36	120	240	240	1.00	U	9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	71			136	1.00		9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Bromofluorobenzene	101	% Recovery	79			119	1.00		9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
d8-Toluene	97.0	% Recovery	85			116	1.00		9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C
Dibromofluoromethane	95.0	% Recovery	78			119	1.00		9/28/2022 14:42	9/30/22	10:16 RLD	EPA 8260C

Sub Lab Results

Cyanide	ATTACHED	mg/L		1.00		10/6/22	00:00	SUB	
Sulfide	ATTACHED			1.00		10/6/22	00:00	SUB	9030

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1240174

Sample Description: CM-WC-SC-G1-220926

Client Sample #:

Sampled: 9/26/2022 14:26

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results												
TCLP Arsenic	0.011	mg/L	0.0077	0.02	0.04	0.04	1.00	J	9/29/2022 08:55	9/30/22	16:48 NAH	EPA 6010C
TCLP Barium	10	mg/L	0.00071	0.002	0.004	0.004	1.00		9/29/2022 08:55	9/30/22	16:48 NAH	EPA 6010C
TCLP Cadmium	0.25	mg/L	0.00041	0.001	0.002	0.002	1.00		9/29/2022 08:55	9/30/22	16:48 NAH	EPA 6010C
TCLP Chromium	0.0015	mg/L	0.0011	0.0025	0.005	0.005	1.00	J	9/29/2022 08:55	9/30/22	16:48 NAH	EPA 6010C
TCLP Lead	17	mg/L	0.0014	0.002	0.004	0.004	1.00		9/29/2022 08:55	9/30/22	16:48 NAH	EPA 6010C
TCLP Selenium	<0.01	mg/L	0.01	0.02	0.04	0.04	1.00	U	9/29/2022 08:55	9/30/22	16:48 NAH	EPA 6010C
TCLP Silver	<0.0011	mg/L	0.0011	0.0025	0.005	0.005	1.00	U	9/29/2022 08:55	9/30/22	16:48 NAH	EPA 6010C
TCLP Mercury	<0.00002	mg/L	0.00002	0.00008	0.00012	0.00012	1.00	U M	9/29/2022 08:55	10/4/22	10:28 MDS	EPA 7470A
Organic Results												
TCLP 1,1-Dichloroethene	<0.049	mg/L	0.049	0.10	0.20	0.20	100.00	U	10/4/2022 08:30	10/4/22	11:11 DGS	EPA 8260C
TCLP 1,2-Dichloroethane	<0.069	mg/L	0.069	0.20	0.21	0.21	100.00	U	10/4/2022 08:30	10/4/22	11:11 DGS	EPA 8260C
TCLP 2-Butanone	<0.29	mg/L	0.29	1.0	1.1	1.1	100.00	U	10/4/2022 08:30	10/4/22	11:11 DGS	EPA 8260C
TCLP Benzene	<0.047	mg/L	0.047	0.10	0.20	0.20	100.00	U	10/4/2022 08:30	10/4/22	11:11 DGS	EPA 8260C
TCLP Carbon tetrachloride	<0.037	mg/L	0.037	0.10	0.12	0.12	100.00	U	10/4/2022 08:30	10/4/22	11:11 DGS	EPA 8260C
TCLP Chlorobenzene	<0.037	mg/L	0.037	0.10	0.12	0.12	100.00	U	10/4/2022 08:30	10/4/22	11:11 DGS	EPA 8260C
TCLP Chloroform	<0.046	mg/L	0.046	0.10	0.14	0.14	100.00	U	10/4/2022 08:30	10/4/22	11:11 DGS	EPA 8260C
TCLP Tetrachloroethene	<0.054	mg/L	0.054	0.10	0.20	0.20	100.00	U	10/4/2022 08:30	10/4/22	11:11 DGS	EPA 8260C
TCLP Trichloroethene	<0.039	mg/L	0.039	0.10	0.12	0.12	100.00	U	10/4/2022 08:30	10/4/22	11:11 DGS	EPA 8260C
TCLP Vinyl chloride	<0.012	mg/L	0.012	0.025	0.050	0.050	100.00	U	10/4/2022 08:30	10/4/22	11:11 DGS	EPA 8260C
TCLP 1,2 Dichloroethane-d4	102	% Recovery	81			118	1.00		10/4/2022 08:30	10/4/22	11:11 DGS	EPA 8260C
TCLP Bromofluorobenzene	101	% Recovery	85			114	1.00		10/4/2022 08:30	10/4/22	11:11 DGS	EPA 8260C
TCLP d8-Toluene	100	% Recovery	89			112	1.00		10/4/2022 08:30	10/4/22	11:11 DGS	EPA 8260C
TCLP Dibromofluoromethane	102	% Recovery	80			119	1.00		10/4/2022 08:30	10/4/22	11:11 DGS	EPA 8260C
TCLP 1,4-Dichlorobenzene	<0.0027	mg/L	0.0027	0.010	0.020	0.020	1.00	U	9/29/2022 08:55	10/4/22	23:30 JJY	EPA 8270D
TCLP 2,4,5-Trichlorophenol	<0.019	mg/L	0.019	0.050	0.10	0.10	1.00	U	9/29/2022 08:55	10/4/22	23:30 JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1240174

Sample Description: CM-WC-SC-G1-220926

Client Sample #:

Sampled: 9/26/2022 14:26

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TCLP 2,4,6-Trichlorophenol	<0.017	mg/L	0.017	0.050	0.10	0.10	1.00	U	9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D
TCLP 2,4-Dinitrotoluene	<0.0025	mg/L	0.0025	0.010	0.020	0.020	1.00	U	9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D
TCLP 2-Methylphenol	<0.015	mg/L	0.015	0.050	0.10	0.10	1.00	U	9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D
TCLP 3 & 4-Methylphenol	<0.034	mg/L	0.034	0.090	0.18	0.18	1.00	U	9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D
TCLP Hexachlorobenzene	<0.0029	mg/L	0.0029	0.010	0.020	0.020	1.00	U	9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D
TCLP Hexachlorobutadiene	<0.0029	mg/L	0.0029	0.010	0.020	0.020	1.00	U	9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D
TCLP Hexachloroethane	<0.0031	mg/L	0.0031	0.010	0.020	0.020	1.00	U	9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D
TCLP Nitrobenzene	<0.0030	mg/L	0.0030	0.010	0.020	0.020	1.00	U	9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D
TCLP Pentachlorophenol	<0.016	mg/L	0.016	0.050	0.10	0.10	1.00	U	9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D
TCLP Pyridine	<0.010	mg/L	0.010	0.020	0.040	0.040	1.00	U Y	9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D
TCLP Surr: 2,4,6-Tribromophenol	80.2	% Recovery	43			140	1.00		9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D
TCLP Surr: 2-Fluorobiphenyl	68.8	% Recovery	44			119	1.00		9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D
TCLP Surr: 2-Fluorophenol	66.2	% Recovery	19			119	1.00		9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D
TCLP Surr: Nitrobenzene-d5	71.9	% Recovery	44			120	1.00		9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D
TCLP Surr: Phenol-d5	56.0	% Recovery	1			114	1.00		9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D
TCLP Surr: Terphenyl-d14	69.7	% Recovery	50			134	1.00		9/29/2022 08:55	10/4/22 23:30	JJY	EPA 8270D

Notes:

^ Indicates the laboratory is NELAP accredited for this analyte by the indicated matrix and method . DL (detection limit), LOD (limit of detection), loq (limit of quantitation) as defined by most recent DOD QSM version.

All samples were received intact and properly preserved unless otherwise noted . The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for the parameters where accreditation is required or available, unless noted in the case narrative.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers		Current CT Laboratories Certifications
Code	Description	
B	Analyte detected in the associated Method Blank.	<p>Wisconsin (WDNR) Chemistry ID# 157066030 Wisconsin (DATCP) Bacteriology ID# 289 Louisiana NELAP (primary) ID# 115843 Illinois NELAP Lab ID# 200073 Kansas NELAP Lab ID# E-10368 Virginia NELAP Lab ID# 460203 ISO/IEC 17025-2005 A2LA Cert # 3806.01 DoD-ELAP A2LA 3806.01</p>
C	Toxicity present in BOD sample.	
D	Diluted Out.	
E	Safe, No Total Coliform detected.	
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	
H	Holding time exceeded.	
I	Incubator temperature was outside acceptance limits during test period.	
J	Estimated value.	
L	Significant peaks were detected outside the chromatographic window.	
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	
N	Insufficient BOD oxygen depletion.	
O	Complete BOD oxygen depletion.	
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	
Q	Laboratory Control Sample outside acceptance limits.	
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Y	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

QC Summary Report

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Duplicate

Analytical Run #:	265628	Analysis Date:	9/27/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1240364	Analysis Time:	13:31	Prep Date/Time:	Method:	SW9095
Parent Sample #:	1240173	Analyst:	HLB	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Free Liquids	Absent		Absent					0	

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Duplicate

Analytical Run #:	265636	Analysis Date:	9/27/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1241116	Analysis Time:	15:00	Prep Date/Time:	Method:	SW9045C
Parent Sample #:	1240173	Analyst:	BRB	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
pH	8.25	S.U.	8.25					0	1

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Duplicate

Analytical Run #:	265749	Analysis Date:	9/30/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1243255	Analysis Time:	15:10	Prep Date/Time:	Method:	SW8000C
Parent Sample #:	1240173	Analyst:	BMS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Solids, Percent	84.9	%	87.6					3	8

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Duplicate

Analytical Run #:	265803	Analysis Date:	9/30/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1243283	Analysis Time:	15:12	Prep Date/Time:	Method:	A2974-87
Parent Sample #:	1240173	Analyst:	BMS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Percent Moisture	15.1	%	12.4					20	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Duplicate

Analytical Run #:	265661	Analysis Date:	9/30/2022	Prep Batch #:	126980	Matrix:	SOIL
CTLab #:	1240276	Analysis Time:	00:17	Prep Date/Time:	09/27/2022 13:33	Method:	SW6010
Parent Sample #:	1240173	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	2420	mg/kg	460				10	136	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Duplicate

Analytical Run #:	265661	Analysis Date:	9/30/2022	Prep Batch #:	126980	Matrix:	SOIL
CTLab #:	1240276	Analysis Time:	00:17	Prep Date/Time:	09/27/2022 13:33	Method:	SW6010
Parent Sample #:	1240173	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	3320	mg/kg	412				10	156	20

Duplicate

Analytical Run #:	265661	Analysis Date:	9/30/2022	Prep Batch #:	126980	Matrix:	SOIL
CTLab #:	1240276	Analysis Time:	00:17	Prep Date/Time:	09/27/2022 13:33	Method:	SW6010
Parent Sample #:	1240173	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Aluminum	9020	mg/kg	8200					800	10	20
Antimony	0.227	mg/kg	11	U				40	200	20
Arsenic	0.227	mg/kg	27	U				40	200	20
Barium	3020	mg/kg	1300					20	80	20
Beryllium	0.0520	mg/kg	0					8	200	20
Cadmium	0.227	mg/kg	29	U				10	200	20
Calcium	48400	mg/kg	28000					1000	53	20
Chromium	1230	mg/kg	290					20	124	20
Cobalt	0.227	mg/kg	12	U				20	200	20
Copper	1550	mg/kg	2700					20	54	20
Iron	63400	mg/kg	200000					600	104	20
Lead	2460	mg/kg	3800					20	43	20
Magnesium	25800	mg/kg	14000					1000	59	20
Manganese	1730	mg/kg	2700					20	44	20
Nickel	0.227	mg/kg	770	U				20	200	20
Selenium	12.4	mg/kg	0					40	200	20
Silver	2.73	mg/kg	2.3					40	17	20
Thallium	5.68	mg/kg	1.8					40	104	20
Vanadium	7.53	mg/kg	13					20	53	20
Zinc	0.227	mg/kg	2500	U				20	200	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Lab Control Spike Soil

Analytical Run #:	265661	Analysis Date:	9/29/2022	Prep Batch #:	126980	Matrix:	SOLID
CTLab #:	1240275	Analysis Time:	23:26	Prep Date/Time:	09/27/2022 13:33	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	2.28	mg/kg			2.50	91	81 --- 116		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Lab Control Spike Soil

Analytical Run #:	265661	Analysis Date:	9/29/2022	Prep Batch #:	126980	Matrix:	SOLID
CTLab #:	1240275	Analysis Time:	23:26	Prep Date/Time:	09/27/2022 13:33	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2290	mg/kg			2500	92	83 --- 118		

Lab Control Spike Soil

Analytical Run #:	265661	Analysis Date:	9/29/2022	Prep Batch #:	126980	Matrix:	SOLID
CTLab #:	1240275	Analysis Time:	23:26	Prep Date/Time:	09/27/2022 13:33	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	98.3	mg/kg			100	98	74 --- 119		
Antimony	24.3	mg/kg			25.0	97	79 --- 114		
Arsenic	93.8	mg/kg			100	94	82 --- 111		
Barium	87.8	mg/kg			100	88	83 --- 113		
Beryllium	2.27	mg/kg			2.50	91	83 --- 113		
Cadmium	2.14	mg/kg			2.50	86	82 --- 113		
Calcium	4450	mg/kg			5000	89	81 --- 116		
Chromium	9.93	mg/kg			10.0	99	85 --- 113		
Cobalt	21.8	mg/kg			25.0	87	85 --- 112		
Copper	10.9	mg/kg			12.5	87	81 --- 117		
Iron	45.3	mg/kg			50.0	91	81 --- 118		
Lead	20.4	mg/kg			25.0	82	81 --- 112		
Magnesium	2260	mg/kg			2500	90	78 --- 115		
Manganese	22.0	mg/kg			25.0	88	84 --- 114		
Nickel	21.6	mg/kg			25.0	86	83 --- 113		
Selenium	91.0	mg/kg			100	91	78 --- 111		
Silver	2.05	mg/kg			2.50	82	82 --- 112		
Thallium	86.5	mg/kg			100	86	83 --- 111		
Vanadium	22.4	mg/kg			25.0	90	82 --- 114		
Zinc	22.3	mg/kg			25.0	89	82 --- 113		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Method Blank Soil

Analytical Run #:	265661	Analysis Date:	9/29/2022	Prep Batch #:	126980	Matrix:	SOLID
CTLab #:	1240274	Analysis Time:	23:33	Prep Date/Time:	09/27/2022 13:33	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	125	mg/kg		U	0		125		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Method Blank Soil

Analytical Run #:	265661	Analysis Date:	9/29/2022	Prep Batch #:	126980	Matrix:	SOLID
CTLab #:	1240274	Analysis Time:	23:33	Prep Date/Time:	09/27/2022 13:33	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	125	mg/kg		U	0		125		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Method Blank Soil

Analytical Run #:	265661	Analysis Date:	9/29/2022	Prep Batch #:	126980	Matrix:	SOLID
CTLab #:	1240274	Analysis Time:	23:33	Prep Date/Time:	09/27/2022 13:33	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	10	mg/kg		U	0		10		
Antimony	0.50	mg/kg		U	0		0.50		
Arsenic	0.50	mg/kg		U	0		0.50		
Barium	0.25	mg/kg		U	0		0.25		
Beryllium	0.10	mg/kg		U	0		0.10		
Cadmium	0.13	mg/kg		U	0		0.13		
Calcium	13	mg/kg		U	0		13		
Chromium	0.25	mg/kg		U	0		0.25		
Cobalt	0.25	mg/kg		U	0		0.25		
Copper	0.265	mg/kg			0		0.25		
Iron	8.35	mg/kg			0		7.5		
Lead	0.283	mg/kg			0		0.25		
Magnesium	13	mg/kg		U	0		13		
Manganese	0.25	mg/kg		U	0		0.25		
Nickel	0.25	mg/kg		U	0		0.25		
Selenium	0.50	mg/kg		U	0		0.50		
Silver	0.50	mg/kg		U	0		0.50		
Thallium	0.50	mg/kg		U	0		0.50		
Vanadium	0.25	mg/kg		U	0		0.25		
Zinc	1.41	mg/kg			0		0.25		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Matrix Spike Duplicate Soil

Analytical Run #:	265661	Analysis Date:	9/30/2022	Prep Batch #:	126980	Matrix:	SOIL
CTLab #:	1240278	Analysis Time:	00:35	Prep Date/Time:	09/27/2022 13:33	Method:	SW6010
Parent Sample #:	1240277	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	4990	mg/kg	460		3000	151	81 --- 116	35	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Matrix Spike Duplicate Soil

Analytical Run #:	265661	Analysis Date:	9/30/2022	Prep Batch #:	126980	Matrix:	SOIL
CTLab #:	1240278	Analysis Time:	00:35	Prep Date/Time:	09/27/2022 13:33	Method:	SW6010
Parent Sample #:	1240277	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	5320	mg/kg	412		3000	164	83 --- 118	52	20

Matrix Spike Duplicate Soil

Analytical Run #:	265661	Analysis Date:	9/30/2022	Prep Batch #:	126980	Matrix:	SOIL
CTLab #:	1240278	Analysis Time:	00:35	Prep Date/Time:	09/27/2022 13:33	Method:	SW6010
Parent Sample #:	1240277	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	9280	mg/kg	8200		120	900	74 --- 119	4	20
Antimony	74.2	mg/kg	11		30.0	211	79 --- 114	19	20
Arsenic	140	mg/kg	27		120	94	82 --- 111	41	20
Barium	1180	mg/kg	1300		120	0	83 --- 113	5	20
Beryllium	2.51	mg/kg	BDL		3.00	84	83 --- 113	13	20
Cadmium	35.7	mg/kg	29		3.00	223	82 --- 113	3	20
Calcium	38800	mg/kg	28000		6010	180	81 --- 116	26	20
Chromium	622	mg/kg	290		12.0	2767	85 --- 113	40	20
Cobalt	30.3	mg/kg	12		30.0	61	85 --- 112	9	20
Copper	2480	mg/kg	2700		15.0	0	81 --- 117	30	20
Iron	60400	mg/kg	200000		60.1	0	81 --- 118	1	20
Lead	7330	mg/kg	3800		30.0	11767	81 --- 112	84	20
Magnesium	16900	mg/kg	14000		3000	97	78 --- 115	47	20
Manganese	1500	mg/kg	2700		30.0	0	84 --- 114	8	20
Nickel	2460	mg/kg	770		30.0	5633	83 --- 113	39	20
Selenium	47.8	mg/kg	BDL		120	40	78 --- 111	19	20
Silver	4.99	mg/kg	2.3		3.00	90	82 --- 112	10	20
Thallium	65.5	mg/kg	1.8		120	53	83 --- 111	0	20
Vanadium	30.0	mg/kg	13		30.0	57	82 --- 114	17	20
Zinc	2290	mg/kg	2500		30.0	0	82 --- 113	3	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Matrix Spike Soil

Analytical Run #:	265661	Analysis Date:	9/30/2022	Prep Batch #:	126980	Matrix:	SOIL
CTLab #:	1240277	Analysis Time:	00:26	Prep Date/Time:	09/27/2022 13:33	Method:	SW6010
Parent Sample #:	1240173	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	3500	mg/kg	460		2990	102	81 --- 116		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Matrix Spike Soil

Analytical Run #:	265661	Analysis Date:	9/30/2022	Prep Batch #:	126980	Matrix:	SOIL
CTLab #:	1240277	Analysis Time:	00:26	Prep Date/Time:	09/27/2022 13:33	Method:	SW6010
Parent Sample #:	1240173	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	3110	mg/kg	412		2990	90	83 --- 118		20

Matrix Spike Soil

Analytical Run #:	265661	Analysis Date:	9/30/2022	Prep Batch #:	126980	Matrix:	SOIL
CTLab #:	1240277	Analysis Time:	00:26	Prep Date/Time:	09/27/2022 13:33	Method:	SW6010
Parent Sample #:	1240173	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	8850	mg/kg	8200		120	542	74 --- 119		20
Antimony	61.0	mg/kg	11		29.9	167	79 --- 114		20
Arsenic	91.4	mg/kg	27		120	54	82 --- 111		20
Barium	1110	mg/kg	1300		120	0	83 --- 113		20
Beryllium	2.19	mg/kg	BDL		2.99	73	83 --- 113		20
Cadmium	36.8	mg/kg	29		2.99	261	82 --- 113		20
Calcium	50200	mg/kg	28000		5980	371	81 --- 116		20
Chromium	932	mg/kg	290		12.0	5350	85 --- 113		20
Cobalt	32.9	mg/kg	12		29.9	70	85 --- 112		20
Copper	1820	mg/kg	2700		14.9	0	81 --- 117		20
Iron	60700	mg/kg	200000		59.8	0	81 --- 118		20
Lead	2970	mg/kg	3800		29.9	0	81 --- 112		20
Magnesium	27200	mg/kg	14000		2990	441	78 --- 115		20
Manganese	1610	mg/kg	2700		29.9	0	84 --- 114		20
Nickel	3650	mg/kg	770		29.9	9632	83 --- 113		20
Selenium	39.4	mg/kg	BDL		120	33	78 --- 111		20
Silver	5.50	mg/kg	2.3		2.99	107	82 --- 112		20
Thallium	64.8	mg/kg	1.8		120	52	83 --- 111		20
Vanadium	35.3	mg/kg	13		29.9	75	82 --- 114		20
Zinc	2360	mg/kg	2500		29.9	0	82 --- 113		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Duplicate

Analytical Run #:	265775	Analysis Date:	9/30/2022	Prep Batch #:	127040	Matrix:	TCLP
CTLab #:	1241681	Analysis Time:	17:04	Prep Date/Time:	09/29/2022 14:31	Method:	SW6010
Parent Sample #:	1240174	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.0127	mg/L	0.011				0.040	14	20
Barium	10.4	mg/L	10				0.0040	4	20
Cadmium	0.246	mg/L	0.25				0.0020	2	20
Chromium	0.0015	mg/L	0.0015				0.0050	0	20
Lead	16.9	mg/L	17				0.0040	1	20
Selenium	0.01	mg/L	0	U			0.010	0	20
Silver	0.0011	mg/L	0	U			0.0050	0	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Lab Control Spike Water

Analytical Run #:	265775	Analysis Date:	9/30/2022	Prep Batch #:	127040	Matrix:	LIQUID
CTLab #:	1241680	Analysis Time:	16:33	Prep Date/Time:	09/29/2022 14:31	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.877	mg/L			0.8	110	87 --- 113		
Barium	0.832	mg/L			0.8	104	88 --- 113		
Cadmium	0.0186	mg/L			0.02	93	88 --- 113		
Chromium	0.0736	mg/L			0.08	92	90 --- 113		
Lead	0.172	mg/L			0.2	86	86 --- 113		
Selenium	0.883	mg/L			0.8	110	83 --- 114		
Silver	0.0191	mg/L			0.02	96	84 --- 115		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Method Blank Water

Analytical Run #:	265775	Analysis Date:	9/30/2022	Prep Batch #:	127040	Matrix:	LIQUID
CTLab #:	1241679	Analysis Time:	16:41	Prep Date/Time:	09/29/2022 14:31	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	100	mg/L		U	0		100		
Barium	2	mg/L		U	0		2		
Cadmium	.02	mg/L		U	0		.02		
Chromium	0.1	mg/L		U	0		0.1		
Lead	0.1	mg/L		U	0		0.1		
Selenium	.02	mg/L		U	0		.02		
Silver	0.0025	mg/L		U	0		0.0025		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Matrix Spike Duplicate Water

Analytical Run #:	265775	Analysis Date:	9/30/2022	Prep Batch #:	127040	Matrix:	TCLP
CTLab #:	1241683	Analysis Time:	17:20	Prep Date/Time:	09/29/2022 14:31	Method:	SW6010
Parent Sample #:	1241682	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.886	mg/L	0.011		0.8	109	87 --- 113	0	20
Barium	11.2	mg/L	10		0.8	150	88 --- 113	1	20
Cadmium	0.274	mg/L	0.25		0.02	120	88 --- 113	1	20
Chromium	0.0711	mg/L	0.0015		0.08	87	90 --- 113	2	20
Lead	17.3	mg/L	17		0.2	150	86 --- 113	1	20
Selenium	1.23	mg/L	BDL		0.8	154	83 --- 114	0	20
Silver	0.0192	mg/L	BDL		0.02	96	84 --- 115	1	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Matrix Spike Water

Analytical Run #:	265775	Analysis Date:	9/30/2022	Prep Batch #:	127040	Matrix:	TCLP
CTLab #:	1241682	Analysis Time:	17:12	Prep Date/Time:	09/29/2022 14:31	Method:	SW6010
Parent Sample #:	1240174	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.888	mg/L	0.011		0.8	110	50 --- 150		20
Barium	11.3	mg/L	10		0.8	162	50 --- 150		20
Cadmium	0.272	mg/L	0.25		0.02	110	50 --- 150		20
Chromium	0.0697	mg/L	0.0015		0.08	85	50 --- 150		20
Lead	17.4	mg/L	17		0.2	200	50 --- 150		20
Selenium	1.23	mg/L	BDL		0.8	154	50 --- 150		20
Silver	0.019	mg/L	BDL		0.02	95	84 --- 115		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Duplicate

Analytical Run #:	265879	Analysis Date:	10/4/2022	Prep Batch #:	127048	Matrix:	TCLP
CTLab #:	1241895	Analysis Time:	10:31	Prep Date/Time:	10/03/2022 13:45	Method:	SW7470A
Parent Sample #:	1240174	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00002	mg/L	0	U			0.12	0	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Lab Control Spike Water

Analytical Run #:	265879	Analysis Date:	10/4/2022	Prep Batch #:	127048	Matrix:	LIQUID
CTLab #:	1241894	Analysis Time:	10:19	Prep Date/Time:	10/03/2022 13:45	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00177	mg/L			0.002	88	82 --- 119		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Method Blank Water

Analytical Run #:	265879	Analysis Date:	10/4/2022	Prep Batch #:	127048	Matrix:	LIQUID
CTLab #:	1241893	Analysis Time:	10:25	Prep Date/Time:	10/03/2022 13:45	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00006	mg/L		U	0		0.00006		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Matrix Spike Duplicate Water

Analytical Run #:	265879	Analysis Date:	10/4/2022	Prep Batch #:	127048	Matrix:	TCLP
CTLab #:	1241897	Analysis Time:	10:37	Prep Date/Time:	10/03/2022 13:45	Method:	SW7470A
Parent Sample #:	1241896	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00162	mg/L	BDL		0.002	81	82 --- 119	4	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Matrix Spike Water

Analytical Run #:	265879	Analysis Date:	10/4/2022	Prep Batch #:	127048	Matrix:	TCLP
CTLab #:	1241896	Analysis Time:	10:34	Prep Date/Time:	10/03/2022 13:45	Method:	SW7470A
Parent Sample #:	1240174	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00155	mg/L	BDL		0.002	78	82 --- 119		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Duplicate

Analytical Run #:	265907	Analysis Date:	10/5/2022	Prep Batch #:	127023	Matrix:	SOIL
CTLab #:	1241547	Analysis Time:	10:07	Prep Date/Time:	10/04/2022 13:55	Method:	SW7471B
Parent Sample #:	1240173	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	50.5	mg/kg	21.4				0.20	81	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Lab Control Spike Soil

Analytical Run #:	265907	Analysis Date:	10/5/2022	Prep Batch #:	127023	Matrix:	SOLID
CTLab #:	1241546	Analysis Time:	09:27	Prep Date/Time:	10/04/2022 13:55	Method:	SW7471B
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.076	mg/kg			0.083	92	82 --- 124		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Method Blank Soil

Analytical Run #:	265907	Analysis Date:	10/5/2022	Prep Batch #:	127023	Matrix:	SOLID
CTLab #:	1241545	Analysis Time:	09:33	Prep Date/Time:	10/04/2022 13:55	Method:	SW7471B
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00415	mg/kg		U	0		0.00415		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Matrix Spike Duplicate Soil

Analytical Run #:	265907	Analysis Date:	10/5/2022	Prep Batch #:	127023	Matrix:	SOIL
CTLab #:	1241549	Analysis Time:	10:14	Prep Date/Time:	10/04/2022 13:55	Method:	SW7471B
Parent Sample #:	1241548	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	19.8	mg/kg	21.4		0.097	0	82 --- 124	0	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Matrix Spike Soil

Analytical Run #:	265907	Analysis Date:	10/5/2022	Prep Batch #:	127023	Matrix:	SOIL
CTLab #:	1241548	Analysis Time:	10:10	Prep Date/Time:	10/04/2022 13:55	Method:	SW7471B
Parent Sample #:	1240173	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	19.7	mg/kg	21.4		0.097	0	82 --- 124		20

Lab Control Spike Soil

Analytical Run #:	265667	Analysis Date:	9/30/2022	Prep Batch #:	127008	Matrix:	SOLID
CTLab #:	1240651	Analysis Time:	08:19	Prep Date/Time:	09/28/2022 14:42	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	DGS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	486	ug/kg			500	97	73 --- 130		20
1,1,2,2-Tetrachloroethane	477	ug/kg			500	95	70 --- 124		20
1,1,2-Trichloroethane	497	ug/kg			500	99	78 --- 121		20
1,1-Dichloroethane	489	ug/kg			500	98	76 --- 125		20
1,1-Dichloroethene	483	ug/kg			500	97	70 --- 131		20
1,2 Dichloroethane-d4	104	% Recovery			100	104	71 --- 136		
1,2,3-Trichlorobenzene	577	ug/kg			500	115	66 --- 130		20
1,2,4-Trichlorobenzene	560	ug/kg			500	112	67 --- 129		20
1,2-Dibromo-3-chloropropane	496	ug/kg			500	99	61 --- 132		20
1,2-Dibromoethane	490	ug/kg			500	98	78 --- 122		20
1,2-Dichlorobenzene	497	ug/kg			500	99	78 --- 121		20
1,2-Dichloroethane	459	ug/kg			500	92	73 --- 128		20
1,2-Dichloropropane	480	ug/kg			500	96	76 --- 123		20
1,3-Dichlorobenzene	507	ug/kg			500	101	77 --- 121		20
1,4-Dichlorobenzene	494	ug/kg			500	99	75 --- 120		20
112Trichloro122trifluoroethane	943	ug/kg			1000	94	66 --- 136		20
2-Butanone	4990	ug/kg			5000	100	51 --- 148		20
2-Hexanone	5010	ug/kg			5000	100	53 --- 145		20
4-Methyl-2-pentanone	5010	ug/kg			5000	100	65 --- 135		20
Acetone	4310	ug/kg			5000	86	36 --- 164		20
Benzene	491	ug/kg			500	98	77 --- 121		20
Bromochloromethane	500	ug/kg			500	100	78 --- 125		20
Bromodichloromethane	478	ug/kg			500	96	75 --- 127		20
Bromofluorobenzene	100	% Recovery			100	100	79 --- 119		
Bromoform	489	ug/kg			500	98	67 --- 132		20
Bromomethane	499	ug/kg			500	100	53 --- 143		20
Carbon disulfide	995	ug/kg			1000	100	63 --- 132		20
Carbon tetrachloride	486	ug/kg			500	97	70 --- 135		20
Chlorobenzene	487	ug/kg			500	97	79 --- 120		20
Chloroethane	379	ug/kg			500	76	59 --- 139		20
Chloroform	480	ug/kg			500	96	78 --- 123		20
Chloromethane	442	ug/kg			500	88	50 --- 136		20
cis-1,2-Dichloroethene	484	ug/kg			500	97	77 --- 123		20
cis-1,3-Dichloropropene	515	ug/kg			500	103	74 --- 126		20
Cyclohexane	482	ug/kg			500	96	67 --- 131		20
d8-Toluene	99.0	% Recovery			100	99.0	85 --- 116		
Dibromochloromethane	476	ug/kg			500	95	74 --- 126		20
Dibromofluoromethane	95.0	% Recovery			100	95.0	78 --- 119		
Dichlorodifluoromethane	511	ug/kg			500	102	29 --- 149		20
Ethylbenzene	506	ug/kg			500	101	76 --- 122		20
Isopropylbenzene	538	ug/kg			500	108	68 --- 134		20
m & p-Xylene	1020	ug/kg			1000	102	77 --- 124		20

Lab Control Spike Soil

Analytical Run #:	265667	Analysis Date:	9/30/2022	Prep Batch #:	127008	Matrix:	SOLID
CTLab #:	1240651	Analysis Time:	08:19	Prep Date/Time:	09/28/2022 14:42	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	DGS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl acetate	462	ug/kg			500	92	53 --- 144		20
Methyl tert-butyl ether	486	ug/kg			500	97	73 --- 125		20
Methylcyclohexane	507	ug/kg			500	101	66 --- 133		20
Methylene chloride	464	ug/kg			500	93	70 --- 128		20
Naphthalene	572	ug/kg			500	114	62 --- 129		20
o-Xylene	525	ug/kg			500	105	77 --- 123		20
Styrene	511	ug/kg			500	102	76 --- 124		20
Tetrachloroethene	522	ug/kg			500	104	73 --- 128		20
Toluene	498	ug/kg			500	100	77 --- 121		20
trans-1,2-Dichloroethene	466	ug/kg			500	93	74 --- 125		20
trans-1,3-Dichloropropene	504	ug/kg			500	101	71 --- 130		20
Trichloroethene	491	ug/kg			500	98	77 --- 123		20
Trichlorofluoromethane	498	ug/kg			500	100	62 --- 140		20
Vinyl chloride	487	ug/kg			500	97	56 --- 135		20

Method Blank Soil

Analytical Run #:	265667	Analysis Date:	9/30/2022	Prep Batch #:	127008	Matrix:	SOLID
CTLab #:	1240650	Analysis Time:	09:17	Prep Date/Time:	09/28/2022 14:42	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	DGS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	100	ug/kg		U	0			100	
1,1,2,2-Tetrachloroethane	50	ug/kg		U	0			50	
1,1,2-Trichloroethane	100	ug/kg		U	0			100	
1,1-Dichloroethane	100	ug/kg		U	0			100	
1,1-Dichloroethene	50	ug/kg		U	0			50	
1,2 Dichloroethane-d4	99.0	% Recovery			100	99.0	71 ---	136	
1,2,3-Trichlorobenzene	50	ug/kg		U	0			50	
1,2,4-Trichlorobenzene	50	ug/kg		U	0			50	
1,2-Dibromo-3-chloropropane	50	ug/kg		U	0			50	
1,2-Dibromoethane	50	ug/kg		U	0			50	
1,2-Dichlorobenzene	50	ug/kg		U	0			50	
1,2-Dichloroethane	50	ug/kg		U	0			50	
1,2-Dichloropropane	100	ug/kg		U	0			100	
1,3-Dichlorobenzene	50	ug/kg		U	0			50	
1,4-Dichlorobenzene	50	ug/kg		U	0			50	
112Trichloro122trifluoroethane	200	ug/kg		U	0			200	
2-Butanone	1000	ug/kg		U	0			1000	
2-Hexanone	500	ug/kg		U	0			500	
4-Methyl-2-pentanone	1000	ug/kg		U	0			1000	
Acetone	500	ug/kg		U	0			500	
Benzene	100	ug/kg		U	0			100	
Bromochloromethane	100	ug/kg		U	0			100	
Bromodichloromethane	50	ug/kg		U	0			50	
Bromofluorobenzene	101	% Recovery			100	101	79 ---	119	
Bromoform	50	ug/kg		U	0			50	
Bromomethane	200	ug/kg		U	0			200	
Carbon disulfide	200	ug/kg		U	0			200	
Carbon tetrachloride	100	ug/kg		U	0			100	
Chlorobenzene	50	ug/kg		U	0			50	
Chloroethane	200	ug/kg		U	0			200	
Chloroform	100	ug/kg		U	0			100	
Chloromethane	100	ug/kg		U	0			100	
cis-1,2-Dichloroethene	100	ug/kg		U	0			100	
cis-1,3-Dichloropropene	100	ug/kg		U	0			100	
Cyclohexane	100	ug/kg		U	0			100	
d8-Toluene	96.0	% Recovery			100	96.0	85 ---	116	
Dibromochloromethane	50	ug/kg		U	0			50	
Dibromofluoromethane	96.0	% Recovery			100	96.0	78 ---	119	
Dichlorodifluoromethane	100	ug/kg		U	0			100	
Ethylbenzene	50	ug/kg		U	0			50	
Isopropylbenzene	50	ug/kg		U	0			50	
m & p-Xylene	100	ug/kg		U	0			100	

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Method Blank Soil

Analytical Run #:	265667	Analysis Date:	9/30/2022	Prep Batch #:	127008	Matrix:	SOLID
CTLab #:	1240650	Analysis Time:	09:17	Prep Date/Time:	09/28/2022 14:42	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	DGS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl acetate	100	ug/kg		U	0		100		
Methyl tert-butyl ether	50	ug/kg		U	0		50		
Methylcyclohexane	100	ug/kg		U	0		100		
Methylene chloride	100	ug/kg		U	0		100		
Naphthalene	50	ug/kg		U	0		50		
o-Xylene	50	ug/kg		U	0		50		
Styrene	50	ug/kg		U	0		50		
Tetrachloroethene	100	ug/kg		U	0		100		
Toluene	100	ug/kg		U	0		100		
trans-1,2-Dichloroethene	100	ug/kg		U	0		100		
trans-1,3-Dichloropropene	100	ug/kg		U	0		100		
Trichloroethene	100	ug/kg		U	0		100		
Trichlorofluoromethane	100	ug/kg		U	0		100		
Vinyl chloride	100	ug/kg		U	0		100		

Matrix Spike Duplicate Soil

Analytical Run #:	265667	Analysis Date:	9/30/2022	Prep Batch #:	127008	Matrix:	SOIL
CTLab #:	1244291	Analysis Time:	17:03	Prep Date/Time:	09/28/2022 14:42	Method:	SW8260C
Parent Sample #:	1244290	Analyst:	RLD	Prep Analyst:	DGS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	631	ug/kg	BDL		639	99	73 --- 130	2	20
1,1,2,2-Tetrachloroethane	501	ug/kg	BDL		639	78	70 --- 124	0	20
1,1,2-Trichloroethane	623	ug/kg	BDL		639	97	78 --- 121	1	20
1,1-Dichloroethane	625	ug/kg	BDL		639	98	76 --- 125	6	20
1,1-Dichloroethene	637	ug/kg	BDL		639	100	70 --- 131	3	20
1,2 Dichloroethane-d4	98.0	% Recovery			100	98.0	71 --- 136	0	
1,2,3-Trichlorobenzene	669	ug/kg	BDL		639	105	66 --- 130	3	20
1,2,4-Trichlorobenzene	683	ug/kg	BDL		639	107	67 --- 129	2	20
1,2-Dibromo-3-chloropropane	657	ug/kg	BDL		639	103	61 --- 132	3	20
1,2-Dibromoethane	614	ug/kg	BDL		639	96	78 --- 122	1	20
1,2-Dichlorobenzene	624	ug/kg	BDL		639	98	78 --- 121	1	20
1,2-Dichloroethane	576	ug/kg	BDL		639	90	73 --- 128	0	20
1,2-Dichloropropane	631	ug/kg	BDL		639	99	76 --- 123	3	20
1,3-Dichlorobenzene	627	ug/kg	BDL		639	98	77 --- 121	1	20
1,4-Dichlorobenzene	613	ug/kg	BDL		639	96	75 --- 120	0	20
112Trichloro122trifluoroethane	1190	ug/kg	BDL		1280	93	66 --- 136	2	20
2-Butanone	6210	ug/kg	BDL		6390	97	51 --- 148	0	20
2-Hexanone	6030	ug/kg	BDL		6390	94	53 --- 145	1	20
4-Methyl-2-pentanone	6160	ug/kg	BDL		6390	96	65 --- 135	1	20
Acetone	5620	ug/kg	BDL		6390	88	36 --- 164	2	20
Benzene	700	ug/kg	57.8		639	101	77 --- 121	2	20
Bromochloromethane	650	ug/kg	BDL		639	102	78 --- 125	3	20
Bromodichloromethane	602	ug/kg	BDL		639	94	75 --- 127	0	20
Bromofluorobenzene	101	% Recovery			100	101	79 --- 119	0	
Bromoform	606	ug/kg	BDL		639	95	67 --- 132	3	20
Bromomethane	630	ug/kg	BDL		639	99	53 --- 143	0	20
Carbon disulfide	1280	ug/kg	BDL		1280	100	63 --- 132	5	20
Carbon tetrachloride	616	ug/kg	BDL		639	96	70 --- 135	2	20
Chlorobenzene	629	ug/kg	BDL		639	98	79 --- 120	0	20
Chloroethane	559	ug/kg	BDL		639	87	59 --- 139	2	20
Chloroform	611	ug/kg	BDL		639	96	78 --- 123	1	20
Chloromethane	559	ug/kg	BDL		639	87	50 --- 136	1	20
cis-1,2-Dichloroethene	702	ug/kg	89.7		639	96	77 --- 123	1	20
cis-1,3-Dichloropropene	655	ug/kg	BDL		639	103	74 --- 126	0	20
Cyclohexane	605	ug/kg	BDL		639	95	67 --- 131	1	20
d8-Toluene	97.0	% Recovery			100	97.0	85 --- 116	0	
Dibromochloromethane	596	ug/kg	BDL		639	93	74 --- 126	0	20
Dibromofluoromethane	95.0	% Recovery			100	95.0	78 --- 119	0	
Dichlorodifluoromethane	638	ug/kg	BDL		639	100	29 --- 149	0	20
Ethylbenzene	751	ug/kg	164		639	92	76 --- 122	2	20
Isopropylbenzene	696	ug/kg	43.8		639	102	68 --- 134	1	20
m & p-Xylene	1470	ug/kg	168		1280	102	77 --- 124	0	20

Matrix Spike Duplicate Soil

Analytical Run #:	265667	Analysis Date:	9/30/2022	Prep Batch #:	127008	Matrix:	SOIL
CTLab #:	1244291	Analysis Time:	17:03	Prep Date/Time:	09/28/2022 14:42	Method:	SW8260C
Parent Sample #:	1244290	Analyst:	RLD	Prep Analyst:	DGS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl acetate	2140	ug/kg	140		639	313	53 --- 144	1	20
Methyl tert-butyl ether	650	ug/kg	BDL		639	102	73 --- 125	6	20
Methylcyclohexane	597	ug/kg	63.2		639	84	66 --- 133	1	20
Methylene chloride	645	ug/kg	BDL		639	101	70 --- 128	5	20
Naphthalene	1040	ug/kg	296		639	116	62 --- 129	2	20
o-Xylene	761	ug/kg	77.4		639	107	77 --- 123	1	20
Styrene	730	ug/kg	260		639	74	76 --- 124	1	20
Tetrachloroethene	724	ug/kg	85.8		639	100	73 --- 128	2	20
Toluene	759	ug/kg	146		639	96	77 --- 121	1	20
trans-1,2-Dichloroethene	635	ug/kg	BDL		639	99	74 --- 125	6	20
trans-1,3-Dichloropropene	618	ug/kg	BDL		639	97	71 --- 130	1	20
Trichloroethene	769	ug/kg	54.1		639	112	77 --- 123	1	20
Trichlorofluoromethane	749	ug/kg	127		639	97	62 --- 140	2	20
Vinyl chloride	640	ug/kg	BDL		639	100	56 --- 135	1	20

Matrix Spike Soil

Analytical Run #:	265667	Analysis Date:	9/30/2022	Prep Batch #:	127008	Matrix:	SOIL
CTLab #:	1244290	Analysis Time:	16:34	Prep Date/Time:	09/28/2022 14:42	Method:	SW8260C
Parent Sample #:	1240173	Analyst:	RLD	Prep Analyst:	DGS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	620	ug/kg	BDL		639	97	73 --- 130		20
1,1,2,2-Tetrachloroethane	502	ug/kg	BDL		639	79	70 --- 124		20
1,1,2-Trichloroethane	628	ug/kg	BDL		639	98	78 --- 121		20
1,1-Dichloroethane	590	ug/kg	BDL		639	92	76 --- 125		20
1,1-Dichloroethene	619	ug/kg	BDL		639	97	70 --- 131		20
1,2 Dichloroethane-d4	98.0	% Recovery			100	98.0	71 --- 136		
1,2,3-Trichlorobenzene	650	ug/kg	BDL		639	102	66 --- 130		20
1,2,4-Trichlorobenzene	673	ug/kg	BDL		639	105	67 --- 129		20
1,2-Dibromo-3-chloropropane	636	ug/kg	BDL		639	100	61 --- 132		20
1,2-Dibromoethane	617	ug/kg	BDL		639	97	78 --- 122		20
1,2-Dichlorobenzene	616	ug/kg	BDL		639	96	78 --- 121		20
1,2-Dichloroethane	574	ug/kg	BDL		639	90	73 --- 128		20
1,2-Dichloropropane	615	ug/kg	BDL		639	96	76 --- 123		20
1,3-Dichlorobenzene	624	ug/kg	BDL		639	98	77 --- 121		20
1,4-Dichlorobenzene	612	ug/kg	BDL		639	96	75 --- 120		20
112Trichloro122trifluoroethane	1170	ug/kg	BDL		1280	91	66 --- 136		20
2-Butanone	6240	ug/kg	BDL		6390	98	51 --- 148		20
2-Hexanone	5970	ug/kg	BDL		6390	93	53 --- 145		20
4-Methyl-2-pentanone	6070	ug/kg	BDL		6390	95	65 --- 135		20
Acetone	5500	ug/kg	BDL		6390	86	36 --- 164		20
Benzene	687	ug/kg	57.8		639	98	77 --- 121		20
Bromochloromethane	668	ug/kg	BDL		639	105	78 --- 125		20
Bromodichloromethane	603	ug/kg	BDL		639	94	75 --- 127		20
Bromofluorobenzene	100	% Recovery			100	100	79 --- 119		
Bromoform	588	ug/kg	BDL		639	92	67 --- 132		20
Bromomethane	630	ug/kg	BDL		639	99	53 --- 143		20
Carbon disulfide	1220	ug/kg	BDL		1280	95	63 --- 132		20
Carbon tetrachloride	626	ug/kg	BDL		639	98	70 --- 135		20
Chlorobenzene	626	ug/kg	BDL		639	98	79 --- 120		20
Chloroethane	548	ug/kg	BDL		639	86	59 --- 139		20
Chloroform	602	ug/kg	BDL		639	94	78 --- 123		20
Chloromethane	554	ug/kg	BDL		639	87	50 --- 136		20
cis-1,2-Dichloroethene	695	ug/kg	89.7		639	95	77 --- 123		20
cis-1,3-Dichloropropene	652	ug/kg	BDL		639	102	74 --- 126		20
Cyclohexane	599	ug/kg	BDL		639	94	67 --- 131		20
d8-Toluene	99.0	% Recovery			100	99.0	85 --- 116		
Dibromochloromethane	598	ug/kg	BDL		639	94	74 --- 126		20
Dibromofluoromethane	92.0	% Recovery			100	92.0	78 --- 119		
Dichlorodifluoromethane	638	ug/kg	BDL		639	100	29 --- 149		20
Ethylbenzene	736	ug/kg	164		639	90	76 --- 122		20
Isopropylbenzene	707	ug/kg	43.8		639	104	68 --- 134		20
m & p-Xylene	1470	ug/kg	168		1280	102	77 --- 124		20

Matrix Spike Soil

Analytical Run #:	265667	Analysis Date:	9/30/2022	Prep Batch #:	127008	Matrix:	SOIL
CTLab #:	1244290	Analysis Time:	16:34	Prep Date/Time:	09/28/2022 14:42	Method:	SW8260C
Parent Sample #:	1240173	Analyst:	RLD	Prep Analyst:	DGS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl acetate	2110	ug/kg	140		639	308	53 --- 144		20
Methyl tert-butyl ether	610	ug/kg	BDL		639	95	73 --- 125		20
Methylcyclohexane	593	ug/kg	63.2		639	83	66 --- 133		20
Methylene chloride	615	ug/kg	BDL		639	96	70 --- 128		20
Naphthalene	1030	ug/kg	296		639	115	62 --- 129		20
o-Xylene	756	ug/kg	77.4		639	106	77 --- 123		20
Styrene	736	ug/kg	260		639	74	76 --- 124		20
Tetrachloroethene	710	ug/kg	85.8		639	98	73 --- 128		20
Toluene	752	ug/kg	146		639	95	77 --- 121		20
trans-1,2-Dichloroethene	601	ug/kg	BDL		639	94	74 --- 125		20
trans-1,3-Dichloropropene	623	ug/kg	BDL		639	97	71 --- 130		20
Trichloroethene	762	ug/kg	54.1		639	111	77 --- 123		20
Trichlorofluoromethane	733	ug/kg	127		639	95	62 --- 140		20
Vinyl chloride	647	ug/kg	BDL		639	101	56 --- 135		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Lab Control Spike Duplicate Soil

Analytical Run #:	265718	Analysis Date:	9/29/2022	Prep Batch #:	127042	Matrix:	SOLID
CTLab #:	1241702	Analysis Time:	22:46	Prep Date/Time:	09/28/2022 14:42	Method:	ORTPHG
Parent Sample #:	1241701	Analyst:	TMG	Prep Analyst:	TMG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Gasoline Range Organics	19.5	mg/kg	19.6		20.0	98	80 --- 120	1	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Lab Control Spike Soil

Analytical Run #:	265718	Analysis Date:	9/29/2022	Prep Batch #:	127042	Matrix:	SOLID
CTLab #:	1241701	Analysis Time:	13:06	Prep Date/Time:	09/28/2022 14:42	Method:	ORTPHG
Parent Sample #:		Analyst:	TMG	Prep Analyst:	TMG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Gasoline Range Organics	19.6	mg/kg			20.0	98	80 --- 120		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Method Blank Soil

Analytical Run #:	265718	Analysis Date:	9/29/2022	Prep Batch #:	127042	Matrix:	SOLID
CTLab #:	1241700	Analysis Time:	14:14	Prep Date/Time:	09/28/2022 14:42	Method:	ORTPHG
Parent Sample #:		Analyst:	TMG	Prep Analyst:	TMG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Gasoline Range Organics	2.5	mg/kg		U	0		2.5		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Lab Control Spike Soil

Analytical Run #:	265801	Analysis Date:	10/3/2022	Prep Batch #:	127017	Matrix:	SOLID
CTLab #:	1241275	Analysis Time:	16:39	Prep Date/Time:	09/28/2022 09:30	Method:	SW8082
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	513	ug/kg			500	103	47 --- 134		30
Aroclor-1221	0				0.5	0	70 --- 130		30
Aroclor-1232	0				0.5	0	70 --- 130		30
Aroclor-1242	0				0.5	0	70 --- 130		30
Aroclor-1248	0				0.5	0	70 --- 130		30
Aroclor-1254	0				0.5	0	67 --- 135		30
Aroclor-1260	493	ug/kg			500	99	53 --- 140		30
Aroclor-1262	0				0.5	0	70 --- 130		30
Aroclor-1268	0				0.5	0	70 --- 130		30
Surr: 2,4,5,6-TCMX	108	% Recovery			100	108	53 --- 147		
Surr: DCBP	113	% Recovery			100	113	65 --- 141		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Method Blank Soil

Analytical Run #:	265801	Analysis Date:	10/3/2022	Prep Batch #:	127017	Matrix:	SOLID
CTLab #:	1241274	Analysis Time:	16:17	Prep Date/Time:	09/28/2022 09:30	Method:	SW8082
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	30	ug/kg		U	0			30	
Aroclor-1221	40	ug/kg		U	0			40	
Aroclor-1232	30	ug/kg		U	0			30	
Aroclor-1242	30	ug/kg		U	0			30	
Aroclor-1248	30	ug/kg		U	0			30	
Aroclor-1254	30	ug/kg		U	0			30	
Aroclor-1260	30	ug/kg		U	0			30	
Aroclor-1262	30	ug/kg		U	0			30	
Aroclor-1268	30	ug/kg		U	0			30	
Surr: 2,4,5,6-TCMX	106	% Recovery			100	106	53 ---	147	
Surr: DCBP	104	% Recovery			100	104	65 ---	141	

Matrix Spike Duplicate Soil

Analytical Run #:	265801	Analysis Date:	10/3/2022	Prep Batch #:	127017	Matrix:	SOIL
CTLab #:	1241278	Analysis Time:	18:06	Prep Date/Time:	09/28/2022 09:30	Method:	SW8082
Parent Sample #:	1241277	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	28700	ug/kg	BDL		569	5044	47 --- 134	13	30
Aroclor-1221	569		BDL U		0.569	0	70 --- 130	0	30
Aroclor-1232	569		BDL U		0.569	0	70 --- 130	0	30
Aroclor-1242	569		BDL U		0.569	0	70 --- 130	0	30
Aroclor-1248	569		BDL U		0.569	0	70 --- 130	0	30
Aroclor-1254	569		BDL U		0.569	0	67 --- 135	0	30
Aroclor-1260	11800	ug/kg	9880		569	337	53 --- 140	4	30
Aroclor-1262	569		BDL U		0.569	0	70 --- 130	0	30
Aroclor-1268	569		BDL U		0.569	0	70 --- 130	0	30
Surr: 2,4,5,6-TCMX	569	% Recovery		U D		0	54 --- 135	0	
Surr: DCBP	569	% Recovery		U D		0	54 --- 141	0	

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Matrix Spike Soil

Analytical Run #:	265801	Analysis Date:	10/3/2022	Prep Batch #:	127017	Matrix:	SOIL
CTLab #:	1241277	Analysis Time:	17:44	Prep Date/Time:	09/28/2022 09:30	Method:	SW8082
Parent Sample #:	1240173	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	25000	ug/kg	BDL		565	4425	47 --- 134		30
Aroclor-1221	565		BDL	U	0.565	0	70 --- 130		30
Aroclor-1232	565		BDL	U	0.565	0	70 --- 130		30
Aroclor-1242	565		BDL	U	0.565	0	70 --- 130		30
Aroclor-1248	565		30400	U	0.565	0	70 --- 130		30
Aroclor-1254	565		22800	U	0.565	0	67 --- 135		30
Aroclor-1260	11200	ug/kg	9880		565	234	53 --- 140		30
Aroclor-1262	565		BDL	U	0.565	0	70 --- 130		30
Aroclor-1268	565		BDL	U	0.565	0	70 --- 130		30
Surr: 2,4,5,6-TCMX	565	% Recovery		U D		0	54 --- 135		
Surr: DCBP	565	% Recovery		U D		0	54 --- 141		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Lab Control Spike Duplicate Soil

Analytical Run #:	265809	Analysis Date:	10/3/2022	Prep Batch #:	127011	Matrix:	SOLID
CTLab #:	1241129	Analysis Time:	19:57	Prep Date/Time:	09/30/2022 08:30	Method:	ORTPHD
Parent Sample #:	1241128	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Diesel Range Organics	23.3	mg/kg	25.3		40.0	58	70 --- 120	8	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Lab Control Spike Soil

Analytical Run #:	265809	Analysis Date:	10/3/2022	Prep Batch #:	127011	Matrix:	SOLID
CTLab #:	1241128	Analysis Time:	17:23	Prep Date/Time:	09/30/2022 08:30	Method:	ORTPHD
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Diesel Range Organics	25.3	mg/kg			40.0	63	70 --- 120		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172490

Project #: 103X903100320001CJ106

Method Blank Soil

Analytical Run #:	265809	Analysis Date:	10/3/2022	Prep Batch #:	127011	Matrix:	SOLID
CTLab #:	1241127	Analysis Time:	16:51	Prep Date/Time:	09/30/2022 08:30	Method:	ORTPHD
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Diesel Range Organics	3.0	mg/kg		U	0		3.0		

Lab Control Spike Soil

Analytical Run #:	265832	Analysis Date:	10/5/2022	Prep Batch #:	127009	Matrix:	SOLID
CTLab #:	1241120	Analysis Time:	16:45	Prep Date/Time:	09/28/2022 09:30	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	1550	ug/kg			2000	78	40 --- 117		20
1,2,4,5-Tetrachlorobenzene	1420	ug/kg			2000	71	47 --- 106		20
1,4-Dichlorobenzene	1200	ug/kg			2000	60	31 --- 115		20
2,4,5-Trichlorophenol	1750	ug/kg			2000	88	41 --- 124		20
2,4,6-Trichlorophenol	1610	ug/kg			2000	80	39 --- 126		20
2,4-Dichlorophenol	1510	ug/kg			2000	76	40 --- 122		20
2,4-Dimethylphenol	559	ug/kg		Q	2000	28	30 --- 127		20
2,4-Dinitrophenol	1390	ug/kg			2000	70	16 --- 102		20
2,4-Dinitrotoluene	1870	ug/kg			2000	94	48 --- 126		20
2,6-Dinitrotoluene	1740	ug/kg			2000	87	46 --- 124		20
2-Chloronaphthalene	1460	ug/kg			2000	73	41 --- 114		20
2-Chlorophenol	1380	ug/kg			2000	69	34 --- 121		20
2-Methylnaphthalene	1370	ug/kg			2000	68	38 --- 122		20
2-Methylphenol	1200	ug/kg			2000	60	32 --- 122		20
2-Nitroaniline	1700	ug/kg			2000	85	44 --- 127		20
2-Nitrophenol	1340	ug/kg			2000	67	36 --- 123		20
3 & 4-Methylphenol	1300	ug/kg			2000	65	34 --- 119		20
3,3'-Dichlorobenzidine	1230	ug/kg			2000	62	22 --- 121		20
3-Nitroaniline	1310	ug/kg			2000	66	33 --- 119		20
4,6-Dinitro-2-methylphenol	1700	ug/kg			2000	85	29 --- 132		20
4-Bromophenyl-phenyl ether	1820	ug/kg			2000	91	46 --- 124		20
4-Chloro-3-methylphenol	1720	ug/kg			2000	86	45 --- 122		20
4-Chloroaniline	888	ug/kg			2000	44	17 --- 106		20
4-Chlorophenyl-phenyl ether	1720	ug/kg			2000	86	45 --- 121		20
4-Nitroaniline	1570	ug/kg			2000	78	44 --- 125		20
4-Nitrophenol	1740	ug/kg			2000	87	30 --- 132		20
Acenaphthene	1560	ug/kg			2000	78	40 --- 123		20
Acenaphthylene	1490	ug/kg			2000	74	32 --- 132		20
Acetophenone	1410	ug/kg			2000	70	33 --- 115		20
Anthracene	1820	ug/kg			2000	91	47 --- 123		20
Atrazine	1950	ug/kg			2000	98	47 --- 127		20
Benzaldehyde	1390	ug/kg			2000	70	6 --- 185		20
Benzo(a)anthracene	1800	ug/kg			2000	90	49 --- 126		20
Benzo(a)pyrene	1670	ug/kg			2000	84	54 --- 129		20
Benzo(b)fluoranthene	1840	ug/kg			2000	92	45 --- 132		20
Benzo(g,h,i)perylene	1880	ug/kg			2000	94	43 --- 134		20
Benzo(k)fluoranthene	1860	ug/kg			2000	93	47 --- 132		20
Bis(2-chloroethoxy)methane	1320	ug/kg			2000	66	36 --- 121		20
Bis(2-chloroethyl)ether	1270	ug/kg			2000	64	31 --- 120		20
Bis(2-chloroisopropyl)ether	1200	ug/kg			2000	60	33 --- 131		20
Bis(2-ethylhexyl)phthalate	1870	ug/kg			2000	94	51 --- 133		20
Butylbenzylphthalate	1860	ug/kg			2000	93	48 --- 132		20

Lab Control Spike Soil

Analytical Run #:	265832	Analysis Date:	10/5/2022	Prep Batch #:	127009	Matrix:	SOLID
CTLab #:	1241120	Analysis Time:	16:45	Prep Date/Time:	09/28/2022 09:30	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Caprolactam	2080	ug/kg			2000	104	46 --- 117		20
Carbazole	1890	ug/kg			2000	94	50 --- 123		20
Chrysene	1890	ug/kg			2000	94	50 --- 124		20
Di-n-butylphthalate	1920	ug/kg			2000	96	51 --- 128		20
Di-n-octylphthalate	1870	ug/kg			2000	94	51 --- 128		20
Dibenzo(a,h)anthracene	1870	ug/kg			2000	94	45 --- 134		20
Dibenzofuran	1620	ug/kg			2000	81	44 --- 120		20
Diethylphthalate	1830	ug/kg			2000	92	50 --- 124		20
Dimethylphthalate	1780	ug/kg			2000	89	48 --- 124		20
Fluoranthene	1870	ug/kg			2000	94	50 --- 127		20
Fluorene	1770	ug/kg			2000	88	43 --- 125		20
Hexachlorobenzene	1810	ug/kg			2000	90	45 --- 122		20
Hexachlorobutadiene	1270	ug/kg			2000	64	32 --- 123		20
Hexachlorocyclopentadiene	981	ug/kg			2000	49	35 --- 106		20
Hexachloroethane	1200	ug/kg			2000	60	28 --- 117		20
Indeno(1,2,3-cd)pyrene	1800	ug/kg			2000	90	45 --- 133		20
Isophorone	1290	ug/kg			2000	64	30 --- 122		20
N-Nitroso-di-n-propylamine	1260	ug/kg			2000	63	36 --- 120		20
N-Nitrosodiphenylamine & Diphn	3620	ug/kg			4000	90	38 --- 127		20
Naphthalene	1300	ug/kg			2000	65	35 --- 123		20
Nitrobenzene	1290	ug/kg			2000	64	34 --- 122		20
Pentachlorophenol	1700	ug/kg			2000	85	25 --- 133		20
Phenanthrene	1810	ug/kg			2000	90	50 --- 121		20
Phenol	1370	ug/kg			2000	68	34 --- 121		20
Pyrene	1830	ug/kg			2000	92	47 --- 127		20
Pyridine	753	ug/kg			2000	38	1 --- 63		20
Surr: 2,4,6-Tribromophenol	92.9	% Recovery			100	92.9	39 --- 132		
Surr: 2-Fluorobiphenyl	73.5	% Recovery			100	73.5	44 --- 115		
Surr: 2-Fluorophenol	67.0	% Recovery			100	67.0	35 --- 115		
Surr: Nitrobenzene-d5	66.8	% Recovery			100	66.8	37 --- 122		
Surr: Phenol-d5	69.0	% Recovery			100	69.0	33 --- 122		
Surr: Terphenyl-d14	93.6	% Recovery			100	93.6	54 --- 127		

Method Blank Soil

Analytical Run #:	265832	Analysis Date:	10/5/2022	Prep Batch #:	127009	Matrix:	SOLID
CTLab #:	1241119	Analysis Time:	16:21	Prep Date/Time:	09/28/2022 09:30	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	100	ug/kg		U	0		100		
1,2,4,5-Tetrachlorobenzene	200	ug/kg		U	0		200		
1,4-Dichlorobenzene	100	ug/kg		U	0		100		
2,4,5-Trichlorophenol	500	ug/kg		U	0		500		
2,4,6-Trichlorophenol	500	ug/kg		U	0		500		
2,4-Dichlorophenol	500	ug/kg		U	0		500		
2,4-Dimethylphenol	500	ug/kg		U Q	0		500		
2,4-Dinitrophenol	500	ug/kg		U	0		500		
2,4-Dinitrotoluene	100	ug/kg		U	0		100		
2,6-Dinitrotoluene	100	ug/kg		U	0		100		
2-Chloronaphthalene	100	ug/kg		U	0		100		
2-Chlorophenol	500	ug/kg		U	0		500		
2-Methylnaphthalene	100	ug/kg		U	0		100		
2-Methylphenol	500	ug/kg		U	0		500		
2-Nitroaniline	200	ug/kg		U	0		200		
2-Nitrophenol	500	ug/kg		U	0		500		
3 & 4-Methylphenol	1000	ug/kg		U	0		1000		
3,3'-Dichlorobenzidine	200	ug/kg		U	0		200		
3-Nitroaniline	100	ug/kg		U	0		100		
4,6-Dinitro-2-methylphenol	500	ug/kg		U	0		500		
4-Bromophenyl-phenyl ether	100	ug/kg		U	0		100		
4-Chloro-3-methylphenol	500	ug/kg		U	0		500		
4-Chloroaniline	200	ug/kg		U	0		200		
4-Chlorophenyl-phenyl ether	100	ug/kg		U	0		100		
4-Nitroaniline	100	ug/kg		U	0		100		
4-Nitrophenol	500	ug/kg		U	0		500		
Acenaphthene	200	ug/kg		U	0		200		
Acenaphthylene	100	ug/kg		U	0		100		
Acetophenone	100	ug/kg		U	0		100		
Anthracene	100	ug/kg		U	0		100		
Atrazine	100	ug/kg		U	0		100		
Benzaldehyde	100	ug/kg		U	0		100		
Benzo(a)anthracene	100	ug/kg		U	0		100		
Benzo(a)pyrene	100	ug/kg		U	0		100		
Benzo(b)fluoranthene	100	ug/kg		U	0		100		
Benzo(g,h,i)perylene	100	ug/kg		U	0		100		
Benzo(k)fluoranthene	100	ug/kg		U	0		100		
Bis(2-chloroethoxy)methane	100	ug/kg		U	0		100		
Bis(2-chloroethyl)ether	100	ug/kg		U	0		100		
Bis(2-chloroisopropyl)ether	100	ug/kg		U	0		100		
Bis(2-ethylhexyl)phthalate	100	ug/kg		U	0		100		
Butylbenzylphthalate	200	ug/kg		U	0		200		

Method Blank Soil

Analytical Run #:	265832	Analysis Date:	10/5/2022	Prep Batch #:	127009	Matrix:	SOLID
CTLab #:	1241119	Analysis Time:	16:21	Prep Date/Time:	09/28/2022 09:30	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Caprolactam	200	ug/kg		U	0			200	
Carbazole	200	ug/kg		U	0			200	
Chrysene	100	ug/kg		U	0			100	
Di-n-butylphthalate	200	ug/kg		U	0			200	
Di-n-octylphthalate	100	ug/kg		U	0			100	
Dibenzo(a,h)anthracene	100	ug/kg		U	0			100	
Dibenzofuran	100	ug/kg		U	0			100	
Diethylphthalate	100	ug/kg		U	0			100	
Dimethylphthalate	100	ug/kg		U	0			100	
Fluoranthene	100	ug/kg		U	0			100	
Fluorene	100	ug/kg		U	0			100	
Hexachlorobenzene	100	ug/kg		U	0			100	
Hexachlorobutadiene	100	ug/kg		U	0			100	
Hexachlorocyclopentadiene	100	ug/kg		U	0			100	
Hexachloroethane	100	ug/kg		U	0			100	
Indeno(1,2,3-cd)pyrene	100	ug/kg		U	0			100	
Isophorone	100	ug/kg		U	0			100	
N-Nitroso-di-n-propylamine	100	ug/kg		U	0			100	
N-Nitrosodiphenylamine & Diphn	200	ug/kg		U	0			200	
Naphthalene	100	ug/kg		U	0			100	
Nitrobenzene	100	ug/kg		U	0			100	
Pentachlorophenol	500	ug/kg		U	0			500	
Phenanthrene	100	ug/kg		U	0			100	
Phenol	500	ug/kg		U	0			500	
Pyrene	100	ug/kg		U	0			100	
Pyridine	200	ug/kg		U	0			200	
Surr: 2,4,6-Tribromophenol	52.2	% Recovery			100	52.2	39 ---	132	
Surr: 2-Fluorobiphenyl	61.3	% Recovery			100	61.3	44 ---	115	
Surr: 2-Fluorophenol	55.6	% Recovery			100	55.6	35 ---	115	
Surr: Nitrobenzene-d5	60.4	% Recovery			100	60.4	37 ---	122	
Surr: Phenol-d5	59.8	% Recovery			100	59.8	33 ---	122	
Surr: Terphenyl-d14	89.0	% Recovery			100	89.0	54 ---	127	

Matrix Spike Duplicate Soil

Analytical Run #:	265832	Analysis Date:	10/5/2022	Prep Batch #:	127009	Matrix:	SOIL
CTLab #:	1241123	Analysis Time:	17:55	Prep Date/Time:	09/28/2022 09:30	Method:	SW8270D
Parent Sample #:	1241122	Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	2350	ug/kg	BDL		2270	104	40 --- 117	15	20
1,2,4,5-Tetrachlorobenzene	1860	ug/kg	BDL		2270	82	47 --- 106	0	20
1,4-Dichlorobenzene	1660	ug/kg	BDL		2270	73	31 --- 115	3	20
2,4,5-Trichlorophenol	2270	ug/kg	BDL	U	2270	79	41 --- 124	11	20
2,4,6-Trichlorophenol	2270	ug/kg	BDL	U	2270	75	39 --- 126	1	20
2,4-Dichlorophenol	2620	ug/kg	BDL	U	2270	79	40 --- 122	10	20
2,4-Dimethylphenol	2040	ug/kg	BDL	Q	2270	90	30 --- 127	26	20
2,4-Dinitrophenol	569	ug/kg	BDL	U	2270	0	16 --- 102	0	20
2,4-Dinitrotoluene	1750	ug/kg	BDL		2270	77	48 --- 126	18	20
2,6-Dinitrotoluene	1510	ug/kg	BDL		2270	67	46 --- 124	2	20
2-Chloronaphthalene	1840	ug/kg	BDL		2270	81	41 --- 114	5	20
2-Chlorophenol	1710	ug/kg	BDL	U	2270	74	34 --- 121	0	20
2-Methylnaphthalene	3990	ug/kg	897		2270	136	38 --- 122	48	20
2-Methylphenol	2270	ug/kg	BDL	U	2270	96	32 --- 122	12	20
2-Nitroaniline	2270	ug/kg	BDL		2270	100	44 --- 127	20	20
2-Nitrophenol	3410	ug/kg	BDL	U	2270	41	36 --- 123	7	20
3 & 4-Methylphenol	3410	ug/kg	BDL	U	2270	106	34 --- 119	4	20
3,3'-Dichlorobenzidine	910	ug/kg	BDL	U	2270	27	22 --- 121	16	20
3-Nitroaniline	1810	ug/kg	BDL		2270	80	33 --- 119	24	20
4,6-Dinitro-2-methylphenol	569	ug/kg	BDL	U	2270	0	29 --- 132	0	20
4-Bromophenyl-phenyl ether	2260	ug/kg	BDL		2270	100	46 --- 124	3	20
4-Chloro-3-methylphenol	2270	ug/kg	BDL		2270	100	45 --- 122	16	20
4-Chloroaniline	569	ug/kg	BDL	U	2270	20	17 --- 106	102	20
4-Chlorophenyl-phenyl ether	1890	ug/kg	BDL		2270	83	45 --- 121	2	20
4-Nitroaniline	3580	ug/kg	BDL		2270	158	44 --- 125	73	20
4-Nitrophenol	569	ug/kg	BDL	U	2270	0	30 --- 132	0	20
Acenaphthene	3490	ug/kg	BDL		2270	154	40 --- 123	27	20
Acenaphthylene	2100	ug/kg	BDL		2270	93	32 --- 132	5	20
Acetophenone	2050	ug/kg	BDL		2270	90	25 --- 96	0	20
Anthracene	5450	ug/kg	1710		2270	165	47 --- 123	35	20
Atrazine	2340	ug/kg	BDL		2270	103	47 --- 127	5	20
Benzaldehyde	2360	ug/kg	BDL		2270	104	6 --- 185	3	20
Benzo(a)anthracene	9160	ug/kg	4610		2270	200	49 --- 126	18	20
Benzo(a)pyrene	8930	ug/kg	4940		2270	176	45 --- 129	16	20
Benzo(b)fluoranthene	14000	ug/kg	8760		2270	231	45 --- 132	12	20
Benzo(g,h,i)perylene	4050	ug/kg	3570		2270	21	43 --- 134	12	20
Benzo(k)fluoranthene	5500	ug/kg	2320		2270	140	47 --- 132	13	20
Bis(2-chloroethoxy)methane	1860	ug/kg	BDL		2270	82	36 --- 121	7	20
Bis(2-chloroethyl)ether	1630	ug/kg	BDL		2270	72	31 --- 120	7	20
Bis(2-chloroisopropyl)ether	1910	ug/kg	BDL		2270	84	33 --- 131	3	20
Bis(2-ethylhexyl)phthalate	15400	ug/kg	16100		2270	0	51 --- 133	19	20
Butylbenzylphthalate	2480	ug/kg	1700		2270	34	48 --- 132	7	20

Matrix Spike Duplicate Soil

Analytical Run #:	265832	Analysis Date:	10/5/2022	Prep Batch #:	127009	Matrix:	SOIL
CTLab #:	1241123	Analysis Time:	17:55	Prep Date/Time:	09/28/2022 09:30	Method:	SW8270D
Parent Sample #:	1241122	Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Caprolactam	4120	ug/kg	BDL		2270	181	46 --- 117	21	20
Carbazole	3990	ug/kg	902		2270	136	50 --- 123	19	20
Chrysene	9320	ug/kg	5000		2270	190	50 --- 124	21	20
Di-n-butylphthalate	2870	ug/kg	BDL		2270	126	51 --- 128	1	20
Di-n-octylphthalate	2530	ug/kg	BDL		2270	111	45 --- 140	6	20
Dibenzo(a,h)anthracene	2330	ug/kg	1320		2270	44	45 --- 134	3	20
Dibenzofuran	3140	ug/kg	617		2270	111	44 --- 120	28	20
Diethylphthalate	1990	ug/kg	BDL		2270	88	50 --- 124	2	20
Dimethylphthalate	1960	ug/kg	BDL		2270	86	48 --- 124	8	20
Fluoranthene	17600	ug/kg	9910		2270	339	50 --- 127	20	20
Fluorene	3660	ug/kg	992		2270	118	43 --- 125	18	20
Hexachlorobenzene	1810	ug/kg	BDL		2270	80	45 --- 122	7	20
Hexachlorobutadiene	1780	ug/kg	BDL		2270	78	32 --- 123	7	20
Hexachlorocyclopentadiene	569	ug/kg	BDL	U	2270	0	35 --- 106	0	20
Hexachloroethane	1400	ug/kg	BDL		2270	62	28 --- 117	9	20
Indeno(1,2,3-cd)pyrene	5120	ug/kg	3820		2270	57	45 --- 133	3	20
Isophorone	1900	ug/kg	BDL		2270	84	30 --- 122	5	20
N-Nitroso-di-n-propylamine	2000	ug/kg	BDL		2270	88	36 --- 120	3	20
N-Nitrosodiphenylamine & Diphn	4880	ug/kg	BDL		4550	107	38 --- 127	0	20
Naphthalene	3600	ug/kg	1080		2270	111	35 --- 123	35	20
Nitrobenzene	1630	ug/kg	BDL		2270	72	34 --- 122	6	20
Pentachlorophenol	2270	ug/kg	BDL	U	2270	95	25 --- 133	1	20
Phenanthrene	12400	ug/kg	4510		2270	348	50 --- 121	34	20
Phenol	2440	ug/kg	BDL		2270	107	34 --- 121	4	20
Pyrene	16700	ug/kg	10000		2270	295	47 --- 127	19	20
Pyridine	1520	ug/kg	BDL		2270	67	1 --- 63	1	20
Surr: 2,4,6-Tribromophenol	70.9	% Recovery			100	70.9	39 --- 132	0	
Surr: 2-Fluorobiphenyl	82.5	% Recovery			100	82.5	44 --- 115	0	
Surr: 2-Fluorophenol	72.6	% Recovery			100	72.6	35 --- 115	0	
Surr: Nitrobenzene-d5	72.5	% Recovery			100	72.5	37 --- 122	0	
Surr: Phenol-d5	77.7	% Recovery			100	77.7	33 --- 122	0	
Surr: Terphenyl-d14	91.1	% Recovery			100	91.1	54 --- 127	0	

Matrix Spike Soil

Analytical Run #:	265832	Analysis Date:	10/5/2022	Prep Batch #:	127009	Matrix:	SOIL
CTLab #:	1241122	Analysis Time:	17:31	Prep Date/Time:	09/28/2022 09:30	Method:	SW8270D
Parent Sample #:	1240173	Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	1990	ug/kg	BDL		2230	89	40 --- 117		20
1,2,4,5-Tetrachlorobenzene	1820	ug/kg	BDL		2230	82	47 --- 106		20
1,4-Dichlorobenzene	10600	ug/kg	BDL	U	2230	75	31 --- 115		20
2,4,5-Trichlorophenol	2570	ug/kg	BDL	U	2230	71	41 --- 124		20
2,4,6-Trichlorophenol	2230	ug/kg	BDL	U	2230	74	39 --- 126		20
2,4-Dichlorophenol	2570	ug/kg	BDL	U	2230	71	40 --- 122		20
2,4-Dimethylphenol	1680	ug/kg	BDL	U Q	2230	69	30 --- 127		20
2,4-Dinitrophenol	558	ug/kg	BDL	U	2230	0	16 --- 102		20
2,4-Dinitrotoluene	1440	ug/kg	BDL		2230	65	48 --- 126		20
2,6-Dinitrotoluene	1460	ug/kg	BDL		2230	65	46 --- 124		20
2-Chloronaphthalene	1720	ug/kg	BDL		2230	77	41 --- 114		20
2-Chlorophenol	1630	ug/kg	BDL		2230	73	34 --- 121		20
2-Methylnaphthalene	2390	ug/kg	897		2230	67	38 --- 122		20
2-Methylphenol	2230	ug/kg	BDL	U	2230	86	32 --- 122		20
2-Nitroaniline	1830	ug/kg	BDL		2230	82	44 --- 127		20
2-Nitrophenol	3350	ug/kg	BDL	U	2230	44	36 --- 123		20
3 & 4-Methylphenol	3350	ug/kg	BDL	U	2230	101	34 --- 119		20
3,3'-Dichlorobenzidine	894	ug/kg	BDL	U	2230	23	22 --- 121		20
3-Nitroaniline	1400	ug/kg	BDL		2230	63	33 --- 119		20
4,6-Dinitro-2-methylphenol	558	ug/kg	BDL	U	2230	0	29 --- 132		20
4-Bromophenyl-phenyl ether	2230	ug/kg	BDL	U	2230	96	46 --- 124		20
4-Chloro-3-methylphenol	1900	ug/kg	BDL		2230	85	45 --- 122		20
4-Chloroaniline	558	ug/kg	BDL	U	2230	6	17 --- 106		20
4-Chlorophenyl-phenyl ether	1900	ug/kg	BDL		2230	85	45 --- 121		20
4-Nitroaniline	1640	ug/kg	BDL		2230	74	44 --- 125		20
4-Nitrophenol	558	ug/kg	BDL	U	2230	0	30 --- 132		20
Acenaphthene	2620	ug/kg	BDL		2230	117	40 --- 123		20
Acenaphthylene	1960	ug/kg	BDL		2230	88	32 --- 132		20
Acetophenone	2020	ug/kg	BDL		2230	91	25 --- 96		20
Anthracene	3750	ug/kg	1710		2230	91	47 --- 123		20
Atrazine	2180	ug/kg	BDL		2230	98	47 --- 127		20
Benzaldehyde	2250	ug/kg	BDL		2230	101	6 --- 185		20
Benzo(a)anthracene	7490	ug/kg	4610		2230	129	49 --- 126		20
Benzo(a)pyrene	7500	ug/kg	4940		2230	115	45 --- 129		20
Benzo(b)fluoranthene	12200	ug/kg	8760		2230	154	45 --- 132		20
Benzo(g,h,i)perylene	4480	ug/kg	3570		2230	41	43 --- 134		20
Benzo(k)fluoranthene	4740	ug/kg	2320		2230	109	47 --- 132		20
Bis(2-chloroethoxy)methane	1700	ug/kg	BDL		2230	76	36 --- 121		20
Bis(2-chloroethyl)ether	1730	ug/kg	BDL		2230	78	31 --- 120		20
Bis(2-chloroisopropyl)ether	1940	ug/kg	BDL		2230	87	33 --- 131		20
Bis(2-ethylhexyl)phthalate	12500	ug/kg	16100		2230	0	51 --- 133		20
Butylbenzylphthalate	2280	ug/kg	1700		2230	26	48 --- 132		20

Matrix Spike Soil

Analytical Run #:	265832	Analysis Date:	10/5/2022	Prep Batch #:	127009	Matrix:	SOIL
CTLab #:	1241122	Analysis Time:	17:31	Prep Date/Time:	09/28/2022 09:30	Method:	SW8270D
Parent Sample #:	1240173	Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Caprolactam	3270	ug/kg	BDL		2230	147	46 --- 117		20
Carbazole	3230	ug/kg	902		2230	104	50 --- 123		20
Chrysene	7420	ug/kg	5000		2230	109	50 --- 124		20
Di-n-butylphthalate	2790	ug/kg	BDL		2230	125	51 --- 128		20
Di-n-octylphthalate	2640	ug/kg	BDL		2230	118	45 --- 140		20
Dibenzo(a,h)anthracene	2220	ug/kg	1320		2230	40	45 --- 134		20
Dibenzofuran	2320	ug/kg	617		2230	76	44 --- 120		20
Diethylphthalate	1990	ug/kg	BDL		2230	89	50 --- 124		20
Dimethylphthalate	1780	ug/kg	BDL		2230	80	48 --- 124		20
Fluoranthene	14200	ug/kg	9910		2230	192	50 --- 127		20
Fluorene	3020	ug/kg	992		2230	91	43 --- 125		20
Hexachlorobenzene	1650	ug/kg	BDL		2230	74	45 --- 122		20
Hexachlorobutadiene	1630	ug/kg	BDL		2230	73	32 --- 123		20
Hexachlorocyclopentadiene	558	ug/kg	BDL	U	2230	0	35 --- 106		20
Hexachloroethane	1250	ug/kg	BDL		2230	56	28 --- 117		20
Indeno(1,2,3-cd)pyrene	5180	ug/kg	3820		2230	61	45 --- 133		20
Isophorone	1770	ug/kg	BDL		2230	79	30 --- 122		20
N-Nitroso-di-n-propylamine	2030	ug/kg	BDL		2230	91	36 --- 120		20
N-Nitrosodiphenylamine & Diphn	4770	ug/kg	BDL		4470	107	38 --- 127		20
Naphthalene	2480	ug/kg	1080		2230	63	35 --- 123		20
Nitrobenzene	1510	ug/kg	BDL		2230	68	34 --- 122		20
Pentachlorophenol	2230	ug/kg	BDL	U	2230	96	25 --- 133		20
Phenanthrene	8570	ug/kg	4510		2230	182	50 --- 121		20
Phenol	2310	ug/kg	BDL		2230	104	34 --- 121		20
Pyrene	13500	ug/kg	10000		2230	157	47 --- 127		20
Pyridine	1510	ug/kg	BDL		2230	68	1 --- 63		20
Surr: 2,4,6-Tribromophenol	72.6	% Recovery			100	72.6	39 --- 132		
Surr: 2-Fluorobiphenyl	79.3	% Recovery			100	79.3	44 --- 115		
Surr: 2-Fluorophenol	76.8	% Recovery			100	76.8	35 --- 115		
Surr: Nitrobenzene-d5	62.1	% Recovery			100	62.1	37 --- 122		
Surr: Phenol-d5	78.3	% Recovery			100	78.3	33 --- 122		
Surr: Terphenyl-d14	81.0	% Recovery			100	81.0	54 --- 127		

Lab Control Spike Water

Analytical Run #:	265838	Analysis Date:	10/4/2022	Prep Batch #:	127062	Matrix:	LIQUID
CTLab #:	1242341	Analysis Time:	23:07	Prep Date/Time:	09/30/2022 13:00	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0980	mg/L			0.2	49	29 --- 112		20
2,4,5-Trichlorophenol	0.140	mg/L			0.2	70	53 --- 123		20
2,4,6-Trichlorophenol	0.136	mg/L			0.2	68	50 --- 125		20
2,4-Dinitrotoluene	0.145	mg/L			0.2	72	57 --- 128		20
2-Methylphenol	0.117	mg/L			0.2	58	30 --- 117		20
3 & 4-Methylphenol	0.115	mg/L			0.2	58	29 --- 110		20
Hexachlorobenzene	0.138	mg/L			0.2	69	53 --- 125		20
Hexachlorobutadiene	0.0932	mg/L			0.2	47	22 --- 124		20
Hexachloroethane	0.0853	mg/L			0.2	43	21 --- 115		20
Nitrobenzene	0.120	mg/L			0.2	60	45 --- 121		20
Pentachlorophenol	0.142	mg/L			0.2	71	35 --- 138		20
Pyridine	0.0316	mg/L			0.2	16	0 --- 106		20
Surr: 2,4,6-Tribromophenol	76.1	% Recovery			100	76.1	43 --- 140		
Surr: 2-Fluorobiphenyl	64.9	% Recovery			100	64.9	44 --- 119		
Surr: 2-Fluorophenol	51.8	% Recovery			100	51.8	19 --- 119		
Surr: Nitrobenzene-d5	64.2	% Recovery			100	64.2	44 --- 120		
Surr: Phenol-d5	42.8	% Recovery			100	42.8	1 --- 114		
Surr: Terphenyl-d14	76.0	% Recovery			100	76.0	50 --- 134		

Method Blank Water

Analytical Run #:	265838	Analysis Date:	10/4/2022	Prep Batch #:	127062	Matrix:	LIQUID
CTLab #:	1242340	Analysis Time:	22:20	Prep Date/Time:	09/30/2022 13:00	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0010	mg/L		U	0		0.0010		
2,4,5-Trichlorophenol	0.0050	mg/L		U	0		0.0050		
2,4,6-Trichlorophenol	0.0050	mg/L		U	0		0.0050		
2,4-Dinitrotoluene	0.0010	mg/L		U	0		0.0010		
2-Methylphenol	0.0050	mg/L		U	0		0.0050		
3 & 4-Methylphenol	0.0050	mg/L		U	0		0.0050		
Hexachlorobenzene	0.0010	mg/L		U	0		0.0010		
Hexachlorobutadiene	0.0010	mg/L		U	0		0.0010		
Hexachloroethane	0.0010	mg/L		U	0		0.0010		
Nitrobenzene	0.0010	mg/L		U	0		0.0010		
Pentachlorophenol	0.0050	mg/L		U	0		0.0050		
Pyridine	0.0020	mg/L		U	0		0.0020		
Surr: 2,4,6-Tribromophenol	73.3	% Recovery			100	73.3	43 --- 140		
Surr: 2-Fluorobiphenyl	60.8	% Recovery			100	60.8	44 --- 119		
Surr: 2-Fluorophenol	52.7	% Recovery			100	52.7	19 --- 119		
Surr: Nitrobenzene-d5	60.9	% Recovery			100	60.9	44 --- 120		
Surr: Phenol-d5	44.5	% Recovery			100	44.5	1 --- 114		
Surr: Terphenyl-d14	77.7	% Recovery			100	77.7	50 --- 134		

Matrix Spike Duplicate Water

Analytical Run #:	265838	Analysis Date:	10/5/2022	Prep Batch #:	127062	Matrix:	TCLP
CTLab #:	1242344	Analysis Time:	00:17	Prep Date/Time:	09/30/2022 13:00	Method:	SW8270D
Parent Sample #:	1242343	Analyst:	JJY	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0938	mg/L	BDL		0.2	47	29 --- 112	3	20
2,4,5-Trichlorophenol	0.126	mg/L	BDL		0.2	63	53 --- 123	8	20
2,4,6-Trichlorophenol	0.119	mg/L	BDL		0.2	60	50 --- 125	9	20
2,4-Dinitrotoluene	0.131	mg/L	BDL		0.2	66	57 --- 128	1	20
2-Methylphenol	0.103	mg/L	BDL		0.2	52	30 --- 117	16	20
3 & 4-Methylphenol	0.101	mg/L	BDL		0.2	50	29 --- 110	15	20
Hexachlorobenzene	0.118	mg/L	BDL		0.2	59	53 --- 125	4	20
Hexachlorobutadiene	0.0892	mg/L	BDL		0.2	45	22 --- 124	13	20
Hexachloroethane	0.0892	mg/L	BDL		0.2	45	21 --- 115	2	20
Nitrobenzene	0.105	mg/L	BDL		0.2	52	45 --- 121	19	20
Pentachlorophenol	0.141	mg/L	BDL		0.2	70	35 --- 138	3	20
Pyridine	0.0584	mg/L	BDL		0.2	29	0 --- 106	35	20
Surr: 2,4,6-Tribromophenol	66.8	% Recovery			100	66.8	43 --- 140	0	
Surr: 2-Fluorobiphenyl	54.4	% Recovery			100	54.4	44 --- 119	0	
Surr: 2-Fluorophenol	44.0	% Recovery			100	44.0	19 --- 119	0	
Surr: Nitrobenzene-d5	53.6	% Recovery			100	53.6	44 --- 120	0	
Surr: Phenol-d5	37.2	% Recovery			100	37.2	1 --- 114	0	
Surr: Terphenyl-d14	63.7	% Recovery			100	63.7	50 --- 134	0	

Matrix Spike Water

Analytical Run #:	265838	Analysis Date:	10/4/2022	Prep Batch #:	127062	Matrix:	TCLP
CTLab #:	1242343	Analysis Time:	23:54	Prep Date/Time:	09/30/2022 13:00	Method:	SW8270D
Parent Sample #:	1240174	Analyst:	JJY	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0964	mg/L	BDL		0.2	48	29 --- 112		20
2,4,5-Trichlorophenol	0.136	mg/L	BDL		0.2	68	53 --- 123		20
2,4,6-Trichlorophenol	0.130	mg/L	BDL		0.2	65	50 --- 125		20
2,4-Dinitrotoluene	0.132	mg/L	BDL		0.2	66	57 --- 128		20
2-Methylphenol	0.121	mg/L	BDL		0.2	60	30 --- 117		20
3 & 4-Methylphenol	0.118	mg/L	BDL		0.2	59	29 --- 110		20
Hexachlorobenzene	0.124	mg/L	BDL		0.2	62	53 --- 125		20
Hexachlorobutadiene	0.102	mg/L	BDL		0.2	51	22 --- 124		20
Hexachloroethane	0.0876	mg/L	BDL		0.2	44	21 --- 115		20
Nitrobenzene	0.126	mg/L	BDL		0.2	63	45 --- 121		20
Pentachlorophenol	0.137	mg/L	BDL		0.2	68	35 --- 138		20
Pyridine	0.0829	mg/L	BDL		0.2	41	0 --- 106		20
Surr: 2,4,6-Tribromophenol	66.5	% Recovery			100	66.5	43 --- 140		
Surr: 2-Fluorobiphenyl	60.2	% Recovery			100	60.2	44 --- 119		
Surr: 2-Fluorophenol	49.5	% Recovery			100	49.5	19 --- 119		
Surr: Nitrobenzene-d5	61.8	% Recovery			100	61.8	44 --- 120		
Surr: Phenol-d5	42.1	% Recovery			100	42.1	1 --- 114		
Surr: Terphenyl-d14	61.5	% Recovery			100	61.5	50 --- 134		

Lab Control Spike Duplicate Water

Analytical Run #:	265875	Analysis Date:	10/4/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1244497	Analysis Time:	12:12	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	1244449	Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	1.02	mg/L	1.08		1.0	102	71 --- 131	6	20
1,2 Dichloroethane-d4	99.0	% Recovery			100	99.0	81 --- 118	0	
1,2-Dichloroethane	1.01	mg/L	0.999		1.0	101	73 --- 128	1	20
2-Butanone	9.21	mg/L	9.82		10.0	92	56 --- 143	6	20
Benzene	1.01	mg/L	1.04		1.0	101	79 --- 120	3	20
Bromofluorobenzene	98.0	% Recovery			100	98.0	85 --- 114	0	
Carbon tetrachloride	1.04	mg/L	1.10		1.0	104	72 --- 136	6	20
Chlorobenzene	0.982	mg/L	1.00		1.0	98	82 --- 118	2	20
Chloroform	0.977	mg/L	0.994		1.0	98	79 --- 124	2	20
d8-Toluene	101	% Recovery			100	101	89 --- 112	0	
Dibromofluoromethane	101	% Recovery			100	101	80 --- 119	0	
Tetrachloroethene	1.00	mg/L	1.04		1.0	100	74 --- 129	4	20
Trichloroethene	0.954	mg/L	0.997		1.0	95	79 --- 123	4	20
Vinyl chloride	1.04	mg/L	1.09		1.0	104	58 --- 137	5	20

Lab Control Spike Water

Analytical Run #:	265875	Analysis Date:	10/4/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1244449	Analysis Time:	09:40	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	1.08	mg/L			1.0	108	71 --- 131		20
1,2 Dichloroethane-d4	104	% Recovery			100	104	81 --- 118		
1,2-Dichloroethane	0.999	mg/L			1.0	100	73 --- 128		20
2-Butanone	9.82	mg/L			10.0	98	56 --- 143		20
Benzene	1.04	mg/L			1.0	104	79 --- 120		20
Bromofluorobenzene	98.0	% Recovery			100	98.0	85 --- 114		
Carbon tetrachloride	1.10	mg/L			1.0	110	72 --- 136		20
Chlorobenzene	1.00	mg/L			1.0	100	82 --- 118		20
Chloroform	0.994	mg/L			1.0	99	79 --- 124		20
d8-Toluene	102	% Recovery			100	102	89 --- 112		
Dibromofluoromethane	101	% Recovery			100	101	80 --- 119		
Tetrachloroethene	1.04	mg/L			1.0	104	74 --- 129		20
Trichloroethene	0.997	mg/L			1.0	100	79 --- 123		20
Vinyl chloride	1.09	mg/L			1.0	109	58 --- 137		20

Method Blank Water

Analytical Run #:	265875	Analysis Date:	10/4/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1244444	Analysis Time:	10:41	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	0.0010	mg/L		U	0		0.0010		
1,2 Dichloroethane-d4	98.0	% Recovery			100	98.0	70 --- 120		
1,2-Dichloroethane	0.00105	mg/L		U	0		0.00105		
2-Butanone	0.0055	mg/L		U	0		0.0055		
Benzene	0.0010	mg/L		U	0		0.0010		
Bromofluorobenzene	98.0	% Recovery			100	98.0	75 --- 120		
Carbon tetrachloride	0.0006	mg/L		U	0		0.0006		
Chlorobenzene	0.0006	mg/L		U	0		0.0006		
Chloroform	0.0007	mg/L		U	0		0.0007		
d8-Toluene	101	% Recovery			100	101	85 --- 120		
Dibromofluoromethane	101	% Recovery			100	101	85 --- 115		
Tetrachloroethene	0.0010	mg/L		U	0		0.0010		
Trichloroethene	0.0006	mg/L		U	0		0.0006		
Vinyl chloride	0.00025	mg/L		U	0		0.00025		

Sample Condition Report

Folder #:	172490	Print Date / Time:	09/27/2022	10:49	
Client:	TETRA TECH	Received Date / Time / By:	09/27/2022	10:46	erc
Project Name:	CHUDNOW METALS	Log-In Date / Time / By:	09/27/2022	10:49	erc
Project Phase:	MILWAUKEE, WI	Project #:	103X903100320001CJ106	PM:	BMS
Coolers:	UNMARKED	Temperature:	1.6 C	On Ice:	Y
Custody Seals Present :	Y	COC Present:?	Y	Complete?	Y
Seal Intact?	Y	Numbers:	2056498, 2056499		
Ship Method:	FEDEX EXPRESS	Tracking Number:	7700 3550 4904		
Adequate Packaging:	Y	Temp Blank Enclosed?	Y		

Notes: THE SAMPLE WAS RECEIVED IN GOOD CONDITION ON ICE.

TWO (2) EUROFINS CUSTODY SEALS WERE PRESENT AND INTACT UPON RECEIPT - BOTH WERE DATED 09/26/22 AND SIGNED.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1240173 CM-WC-SC-G1-220926	SOLIDS	1	/	% MOIST,%SOL,FLIQ,HG,ICP,K,NA,pH
Total # of Containers of Type (SOLIDS) = 1				
1240173 CM-WC-SC-G1-220926	SOLIDS	1	N / N	%SOL
Total # of Containers of Type (SOLIDS) = 1				
1240173 CM-WC-SC-G1-220926	UNPRES GL	1	/	8270,PCB
Total # of Containers of Type (UNPRES GL) = 1				
1240173 CM-WC-SC-G1-220926	TARED DRO	1	/	DRO
Total # of Containers of Type (TARED DRO) = 1				
1240173 CM-WC-SC-G1-220926	MEOH TARED	1	/	GRO
Total # of Containers of Type (MEOH TARED) = 1				
1240173 CM-WC-SC-G1-220926	UNPRES GL	1	N / N	SUB
Total # of Containers of Type (UNPRES GL) = 1				
1240173 CM-WC-SC-G1-220926	TERRA CORE	1	/	VOC
Total # of Containers of Type (TERRA CORE) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1240174 CM-WC-SC-G1-220926	SOLIDS	1	N / N	HG,ICP,8270
Total # of Containers of Type (SOLIDS) = 1				

1240174 CM-WC-SC-G1-220926	JAR GL	1	/	VOC
Total # of Containers of Type (JAR GL) = 1				

<u>Condition Code</u>	<u>Condition Description</u>
1	Sample Received OK

CHAIN OF CUSTODY

Company: Tetra Tech
 Project Contact: Rachel Houle
 Telephone: 708-955-4569
 Project Name: Chudnow Metals
 Project #: 103X903100320001CJ106
 Location: Milwaukee, WI
 Sampled By: R. Houle, A. Scholl

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Report To:
 EMAIL: rachel.houle@tetrattech.com
 Company: Tetra Tech
 Address:

Folder #: 172490

Company: TETRA TECH

Project: CHUDNOW METALS

Logged By: erc PM: BMS

Program:

QSM RCRA SDWA NPDES

Solid Waste Other _____

PO #

Invoice To:*
 EMAIL: Tetra Tech
 Company: Accounts Payable
 Address:

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

Client Special Instructions

ANALYSES REQUESTED

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

Filtered? Y/N

TCLP VOC, SVOC, Metals

Cyanide, Sulfide

PCB, pH, free liquids,
metals, SVOC, DRO, GRO

VOC

Total # Containers

Designated MS/MSD

Turnaround Time
 Normal RUSH*

Date Needed: _____

*Rush analysis requires prior
 CT Laboratories' approval*

Surcharges:

24 hr 200%

2-3 days 100%

4-9 days 50%

Collection Matrix Grab/ Sample Sample ID Description
 Date Time Comp #

Fill in Spaces with Bottles per Test

CT Lab ID #

Lab use only

9/26/22 1426 S Comp CM-WC-SC-^{SL}#-220926

X X X X

1240173, 74

Relinquished By:

Alex Scholl

Date/Time

9/26/22

Received By:

Eric

Date/Time

9/26/22 1046

Lab Use Only

Ice Present ☒ Yes ☐ No

Temp 1.6 IR Gun 70

Cooler # XXX

Received by:

Date/Time

Received for Laboratory by:

Eric

Date/Time

9/26/22 1059

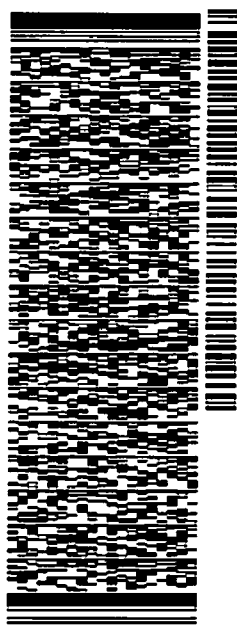
ORIGIN ID: MKEA (815) 993-8333
 ALEXA SCHOLL
 TETRA TECH INC
 5401 S STATE ST
 MILWAUKEE, WI 53208
 UNITED STATES US

SHIP DATE: 26SEP22
 ACTWTG: 20.00 LB
 CAD: 102185850MNET4530
 BILL SENDER

TO DENNIS LINLEY
 CT LABORATORIES, LLC
 1230 LANGE CT.

BARABOO WI 53913
 (608) 356-2760 REF: 103993100320001CJ106
 NV DEPT

581J11EC8C/FE2D

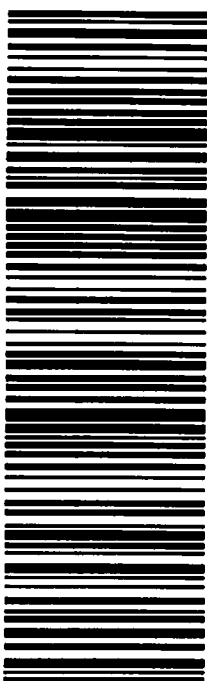


TRK# 7700 3550 4904
 0201

TUE - 27 SEP 10:30A
 PRIORITY OVERNIGHT

55 LNRA

WI-US 53913
 MSN



eurofins

Environment
 TestAmerica

2056498

Custody Seal

09/26/22

DATE *Alexa Scholl*

SIGNATURE

eurofins

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx

eurofins

Environment
 TestAmerica

2056499

Custody Seal

09/26/22

DATE *Alexa Scholl*

SIGNATURE

eurofins

Ice Present

Yes

No

Temperature

6

22.8

Initials

JS

Date

9/26/22

Time

1040

Cooler #

XXX



Microbac Laboratories Inc., - Marietta, OH

Client Project ID:

Misc non DOD

For:

Brett Szymanski

CT Laboratories

1230 Lange Court

Baraboo, WI 53913

Project State of Origin: Wisconsin

Project Requested Certification:

Microbac Laboratories Inc., - Marietta, OH

E87551

Florida Department of Health

All test results meet the requirements of the QAPP and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. The reported results are related only to the samples analyzed as received. This laboratory report may be released as a hardcopy and in computer-readable form submitted electronically or on diskette. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, Inc.

Laboratory Project Manager:

Alicia Walker

Project Manager

Alicia.Walker@Microbac.com

Authorized By:

Alicia Walker

Project Manager

Issued: 10/06/2022

Microbac Laboratories, Inc.

158 Starlite Drive | Marietta, OH 45750 | 800.373.4071 p | www.microbac.com



Laboratory Report Number: M2I1720
Client Project ID: Misc non DOD

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 0.1°C

Cooler Inspection Checklist

Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes



Laboratory Report Number: M2I1720

Client Project ID: Misc non DOD

Case Narrative

Cyanide: Sample M2I1720-01 could not be analyzed using a normal weight of sample. Due to matrix interference, only 0.0388 g could be analyzed. The result could be biased due to the extreme low weight that needed to be used.



Laboratory Report Number: M2I1720

Client Project ID: Misc non DOD

Sample Notes

EPA 9014

D1 Dilution was performed due to matrix interference.

Cyanide - Total

M2I1720-01

CM-WC-SC-G1-220926

QC Sample Notes

M2 Matrix spike recovery is outside of acceptance limits, biased low.

EPA 9034

Sulfide as S

B2J0208-MS1

Matrix Spike

B2J0208-MS1

Matrix Spike

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: CM-WC-SC-G1-220926	Collection Date: 09/26/2022 14:26
Laboratory ID: M2I1720-01	Prep Date: 09/30/2022 06:08
Matrix: Solid	Analyzed: 10/03/2022 03:00
Batch / Sequence: B2I1473 /	Calibration: NA
Instrument: BAL016	File ID: PSOLID_MOIST_ASH@75drywt-soil_B2I1473_221003031107
Analyst: JMH	% Solids: 80.71
Analytical Method: ASTM D2216-10	
Units: % (by wt.)	
Dilution: 1	

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Percent Solids		80.7	0.500	1.00		

Client ID: CM-WC-SC-G1-220926	Collection Date: 09/26/2022 14:26
Laboratory ID: M2I1720-01	Prep Date: 10/05/2022 14:50
Matrix: Solid	Analyzed: 10/05/2022 14:55
Batch / Sequence: B2J0208 /	Calibration: NA
Instrument: BURET	File ID: SulfideSOIL_B2J0208_221005025406.xls
Analyst: EPT	% Solids: 80.71
Analytical Method: EPA 9034	
Units: mg/kg dry	
Dilution: 1	

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Sulfide as S		ND	62.6	62.6	U	

Client ID: CM-WC-SC-G1-220926	Collection Date: 09/26/2022 14:26
Laboratory ID: M2I1720-01	Prep Date: 10/04/2022 10:44
Matrix: Solid	Analyzed: 10/04/2022 18:21
Batch / Sequence: B2J0106 / S2J0048	Calibration: UNASSIGNED
Instrument: SEAL1	File ID: 22-10-04_02_CN_TTB-040
Analyst: TTB	% Solids: 80.71
Analytical Method: EPA 9014	
Units: mg/kg dry	
Dilution: 1	

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Cyanide - Total	57-12-5	21.8	0.0743	0.149		D1



Laboratory Report Number: M2I1720

Client Project ID: Misc non DOD

Notes and Definitions

% (by wt.): Percent by Weight

D1: Dilution was performed due to matrix interference.

U: The analyte was analyzed for but was not detected above the reported quantitation limit. The quantitation limit has been adjusted for any dilution or concentration of the sample.

MDL: Method Detection Limit

RL: Reporting Limit



Laboratory Report Number: M2I1720

Client Project ID: Misc non DOD

METHOD BLANKS

Sample ID: B2I1473-BLK1		Prep Date: 09/30/22 06:08		Matrix: Solid		
Instrument: BAL016		Analyzed: 10/03/22 03:00		Method: ASTM D2216-10		
File ID: PSOLID_MOIST_ASH(Sequence:		Analyst: JMH		
Batch: B2I1473		Units: % (by wt.)		Calibration:		
Analyte	Result	MDL	RL	Dilution	Flag	Q
Percent Solids	100	0.500	1.00	1		*

Sample ID: B2J0106-BLK1		Prep Date: 10/04/22 10:44		Matrix: Solid		
Instrument: SEAL1		Analyzed: 10/04/22 18:17		Method: EPA 9014		
File ID: 22-10-04_02_CN_TTB-		Sequence: S2J0048		Analyst: TTB		
Batch: B2J0106		Units: mg/kg wet				
Analyte	Result	MDL	RL	Dilution	Flag	Q
Cyanide - Total	0.0600	0.0600	0.120	1	U	

Sample ID: B2J0208-BLK1		Prep Date: 10/05/22 14:50		Matrix: Solid		
Instrument: BURET		Analyzed: 10/05/22 14:55		Method: EPA 9034		
File ID: SulfideSOIL_B2J0208_		Sequence:		Analyst: EPT		
Batch: B2J0208		Units: mg/kg wet		Calibration:		
Analyte	Result	MDL	RL	Dilution	Flag	Q
Sulfide as S	51.0	51.0	51.0	1	U	

* - Detected in the associated method Blank at a concentration >= RL



Laboratory Report Number: M2I1720
Client Project ID: Misc non DOD

BLANK SPIKE (BS)

Method: ASTM D2216-10		Blank Spike			
Batch: B2I1473		Spike ID: B2I1473-BS1			
Analyst: JMH		Prepared: 09/30/22 06:08			
Matrix: Solid		Analyzed: 10/03/22 03:00			
Units: % (by wt.)		File ID: PSOLID_MOIST_ASH@75drywt-			
Instrument: BAL016		Initial/Final: 1g/1mL			
Calibration:					
Analyte	BS Spiked	BS Found	BS %Rec	%Rec Limts	Q
Percent Solids	80.0	76.4	95.5	90 - 110	

* - Does not meet %Rec acceptance criteria.
- Does not meet RPD acceptance criteria.



Laboratory Report Number: M2I1720

Client Project ID: Misc non DOD

Method: EPA 9014		Blank Spike				
Batch: B2J0106		Spike ID: B2J0106-BS1				
Analyst: TTB		Prepared: 10/04/22 10:44				
Matrix: Solid		Analyzed: 10/04/22 18:19				
Units: mg/kg wet		File ID: 22-10-04_02_CN_TTB-039				
Instrument: SEAL1		Initial/Final: 0.5g/6mL				
Analyte		BS Spiked	BS Found	BS %Rec	%Rec Limts	Q
Cyanide - Total		1.16	1.28	110	90 - 110	

* - Does not meet %Rec acceptance criteria.
- Does not meet RPD acceptance criteria.



Laboratory Report Number: M2I1720

Client Project ID: Misc non DOD

Method: EPA 9034		Blank Spike				
Batch: B2J0208		Spike ID: B2J0208-BS1				
Analyst: EPT		Prepared: 10/05/22 14:50				
Matrix: Solid		Analyzed: 10/05/22 14:55				
Units: mg/kg wet		File ID: SulfideSOIL_B2J0208_22100502				
Instrument: BURET		Initial/Final: 25g/25mL				
Calibration:						
Analyte		BS Spiked	BS Found	BS %Rec	%Rec Limts	Q
Sulfide as S		895	192	21.4	10 - 150	

* - Does not meet %Rec acceptance criteria.
- Does not meet RPD acceptance criteria.



Laboratory Report Number: M2I1720
Client Project ID: Misc non DOD

Matrix Spike (MS)

Method: EPA 9014		Parent		Spike		
Batch: B2J0106		Sample ID: M2I1720-01		B2J0106-MS1		
Matrix: Solid		Prepared: 10/04/2022 10:44		10/04/22 10:44		
Units: mg/kg dry		Analyzed: 10/04/2022 18:21		10/04/22 18:25		
Instrument: SEAL1		File ID: 22-10-04_02_CN_TTB-040		22-10-04_02_CN_TTB-042		
		Dilution: 1		1		
Analyst: TTB						

	Parent	MS Spiked	MS Found	MS %Rec	%Rec Limts	Q
Analyte						
Cyanide - Total	21.8	15.7	34.8	82.4	80 - 120	



Laboratory Report Number: M2I1720

Client Project ID: Misc non DOD

Method: EPA 9034		Parent		Spike		
Batch: B2J0208		Sample ID: M2I1720-01		B2J0208-MS1		
Matrix: Solid		Prepared: 10/05/2022 14:50		10/05/22 14:50		
Units: mg/kg dry		Analyzed: 10/05/2022 14:55		10/05/22 14:55		
Instrument: BURET		File ID: SulfideSOIL_B2J0208_221		SulfideSOIL_B2J0208_221		
Calibration:		Dilution: 1		1		
Analyst: EPT						

Analyte	Parent	MS Spiked	MS Found	MS %Rec	%Rec Limts	Q
Sulfide as S	ND	1110	ND		10 - 150	*

* - Exceeds %Rec Limit

- Exceeds RPD Limit



Laboratory Report Number: M2I1720

Client Project ID: Misc non DOD

DUPLICATE

Parent ID: M2I1720-01		Calibration: UNASSIGNED		Method: EPA 9014	
Instrument: SEAL1		File ID: 22-10-04_02_CN_T		Dil: 1	
Sample ID: B2J0106-DUP1		Batch: B2J0106		Matrix: Solid	
				Units: mg/kg dry	
Analyte		Parent	Duplicate	RPD	RPD Limit
Cyanide - Total		21.8	12.4	55.3	20
					*



Laboratory Report Number: M2I1720

Client Project ID: Misc non DOD

Parent ID: M2I1720-01		Calibration:		Method: EPA 9034	
Instrument: BURET		File ID: SulfideSOIL_B2J02		Dil: 1	
Matrix: Solid		Batch: B2J0208		Units: mg/kg dry	
Sample ID: B2J0208-DUP1					
Analyte	Parent	Duplicate	RPD	RPD Limit	Q
Sulfide as S	ND	ND		50	

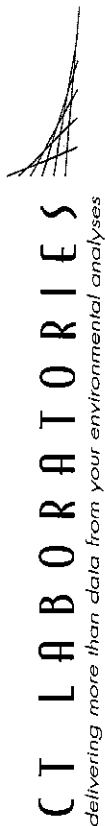


Laboratory Report Number: M2I1720

Client Project ID: Misc non DOD

* - Exceeds RPD Limit

- Based on the low concentration of this analyte, Relative Percent Difference is not an appropriate evaluator of precision. The precision of the duplicate analysis is considered acceptable



1230 Lange Court • Baraboo, WI 53913 • 608-356-2760
www.ctlaboratories.com

Sub-Contract Laboratory Chain-of-Custody and Purchase Order

PURCHASE ORDER #: 172490 MICROBAC

The PO# must appear on all invoice and reports!

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.

Ship to: Microbac 158 Starlight Drive Marietta, OH 45750

Return Invoice and Results to: bszymanski@ctlaboratories.com

Government UPS Shipping Acct ?

Y N

CTLaboratories
Brett M Szymanski
1230 Lange Court
Baraboo WI 53913

Ship by:

Speedee

UPS Gmd

UPS 2nd

UPS NDA

X

Date Due: 5-Day TAT

RUSH TURNAROUND NEEDED? Y or N (Circle One)

Y

Project Name: CHUDNOW METALS

Project State: WI

Analytical/QC Criteria:

NONE INDICATED

STATE

DOD QSM

NELAP (Circle one)

OTHER

Report results as EDD? N

Y

(Circle one and indicate type: Basic Excel)

Data Deliverable Package LEVEL: II & IV

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method	Cost
1240173	9/26/2022 14:26	SOIL	CM-WC-SC-G1-220926	CYANIDE, TOTAL	9010/9014
1240173	9/26/2022 14:26	SOIL	CM-WC-SC-G1-220926	SULFIDE, TOTAL	9030/9034

Relinquished by: Brett Szymanski

Date/Time: 09/27/2022 11:50

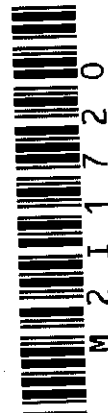
Received by: Brenda Gregory

Date/Time: 9/28/2022 15:10

Receipt Temperature (C) 0.1/1

COMMENTS: PLEASE LOG USING THE SAMPLE DESCRIPTION.

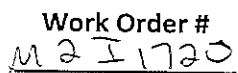
REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED



CT Laboratories
Rec'd: 09/28/2022 15:10
By: Brenda Gregory

Temp 0.1 (Signature)

Form #: FPM1-01
Effective Date: 02/15/14

[illegible]

pH Lot # NH

pH

Exceptions

[illegible]

PRESERVATIVE EXCEPTIONS

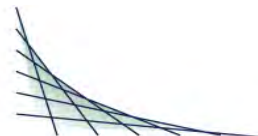
~~SECRET~~

AS NOTED

Document Control # 1957
Last 04-10-2019

9/28/2022 Sm

Issued to: Document Master File



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.



ANALYTICAL REPORT

TETRA TECH
 RACHEL HOULE
 1 S WACKER DRIVE
 SUITE 3700
 CHICAGO, IL 60606
 Copy: R5 START LIST

Project Name: CHUDNOW METALS
 Project Phase: MILWAUKEE, WI
 Contract #: 3509
 Project #: 103X903100320001DH108
 Folder #: 172899
 Purchase Order #: 1168710 / CT-50

Page 1 of 23
 Arrival Temperature: 1.4
 Report Date: 10/24/2022
 Date Received: 10/13/2022
 Reprint Date: 10/24/2022

CT LAB#: 1248292

Sample Description: CM-WC-SC-F3-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results												
TCLP Arsenic	0.012	mg/L	0.0077	0.02	0.04	0.04	1.00	J	10/15/2022 14:20	10/18/22	14:40 NAH	EPA 6010C
TCLP Barium	5.5	mg/L	0.00071	0.002	0.004	0.004	1.00		10/15/2022 14:20	10/18/22	14:40 NAH	EPA 6010C
TCLP Cadmium	0.39	mg/L	0.00041	0.001	0.002	0.002	1.00		10/15/2022 14:20	10/18/22	14:40 NAH	EPA 6010C
TCLP Chromium	0.0046	mg/L	0.0011	0.0025	0.005	0.005	1.00	J	10/15/2022 14:20	10/18/22	14:40 NAH	EPA 6010C
TCLP Lead	5.5	mg/L	0.0014	0.002	0.004	0.004	1.00		10/15/2022 14:20	10/18/22	14:40 NAH	EPA 6010C
TCLP Selenium	<0.01	mg/L	0.01	0.02	0.04	0.04	1.00	U	10/15/2022 14:20	10/18/22	14:40 NAH	EPA 6010C
TCLP Silver	<0.0011	mg/L	0.0011	0.0025	0.005	0.005	1.00	U	10/15/2022 14:20	10/18/22	14:40 NAH	EPA 6010C
TCLP Mercury	0.00004	mg/L	0.00002	0.00008	0.00012	0.00012	1.00	J	10/15/2022 14:20	10/19/22	14:42 MDS	EPA 7470A
Organic Results												
TCLP 1,1-Dichloroethene	<0.049	mg/L	0.049	0.10	0.20	0.20	100.00	U	10/20/2022 09:00	10/20/22	12:32 DGS	EPA 8260C
TCLP 1,2-Dichloroethane	<0.069	mg/L	0.069	0.20	0.21	0.21	100.00	U	10/20/2022 09:00	10/20/22	12:32 DGS	EPA 8260C
TCLP 2-Butanone	<0.29	mg/L	0.29	1.0	1.1	1.1	100.00	U	10/20/2022 09:00	10/20/22	12:32 DGS	EPA 8260C
TCLP Benzene	<0.047	mg/L	0.047	0.10	0.20	0.20	100.00	U	10/20/2022 09:00	10/20/22	12:32 DGS	EPA 8260C
TCLP Carbon tetrachloride	<0.037	mg/L	0.037	0.10	0.12	0.12	100.00	U	10/20/2022 09:00	10/20/22	12:32 DGS	EPA 8260C
TCLP Chlorobenzene	<0.037	mg/L	0.037	0.10	0.12	0.12	100.00	U	10/20/2022 09:00	10/20/22	12:32 DGS	EPA 8260C
TCLP Chloroform	<0.046	mg/L	0.046	0.10	0.14	0.14	100.00	U	10/20/2022 09:00	10/20/22	12:32 DGS	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248292

Sample Description: CM-WC-SC-F3-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TCLP Tetrachloroethene	<0.054	mg/L	0.054	0.10	0.20	0.20	100.00	U	10/20/2022 09:00	10/20/22	12:32 DGS	EPA 8260C
TCLP Trichloroethene	<0.039	mg/L	0.039	0.10	0.12	0.12	100.00	U	10/20/2022 09:00	10/20/22	12:32 DGS	EPA 8260C
TCLP Vinyl chloride	<0.012	mg/L	0.012	0.025	0.050	0.050	100.00	U	10/20/2022 09:00	10/20/22	12:32 DGS	EPA 8260C
TCLP 1,2 Dichloroethane-d4	99.0	% Recovery	81			118	1.00		10/20/2022 09:00	10/20/22	12:32 DGS	EPA 8260C
TCLP Bromofluorobenzene	105	% Recovery	85			114	1.00		10/20/2022 09:00	10/20/22	12:32 DGS	EPA 8260C
TCLP d8-Toluene	97.0	% Recovery	89			112	1.00		10/20/2022 09:00	10/20/22	12:32 DGS	EPA 8260C
TCLP Dibromofluoromethane	98.0	% Recovery	80			119	1.00		10/20/2022 09:00	10/20/22	12:32 DGS	EPA 8260C
TCLP 1,4-Dichlorobenzene	<0.0027	mg/L	0.0027	0.010	0.020	0.020	1.00	U Y	10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP 2,4,5-Trichlorophenol	<0.019	mg/L	0.019	0.050	0.10	0.10	1.00	U Y	10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP 2,4,6-Trichlorophenol	<0.017	mg/L	0.017	0.050	0.10	0.10	1.00	U Y	10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP 2,4-Dinitrotoluene	<0.0025	mg/L	0.0025	0.010	0.020	0.020	1.00	U Y	10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP 2-Methylphenol	<0.015	mg/L	0.015	0.050	0.10	0.10	1.00	U Y	10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP 3 & 4-Methylphenol	<0.034	mg/L	0.034	0.090	0.18	0.18	1.00	U Y	10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP Hexachlorobenzene	<0.0029	mg/L	0.0029	0.010	0.020	0.020	1.00	U Y	10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP Hexachlorobutadiene	<0.0029	mg/L	0.0029	0.010	0.020	0.020	1.00	U Y	10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP Hexachloroethane	<0.0031	mg/L	0.0031	0.010	0.020	0.020	1.00	U Y	10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP Nitrobenzene	<0.0030	mg/L	0.0030	0.010	0.020	0.020	1.00	U Y	10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP Pentachlorophenol	<0.016	mg/L	0.016	0.050	0.10	0.10	1.00	U Y	10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP Pyridine	<0.010	mg/L	0.010	0.020	0.040	0.040	1.00	U Y	10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP Surr: 2,4,6-Tribromophenol	72.1	% Recovery	43			140	1.00		10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP Surr: 2-Fluorobiphenyl	52.8	% Recovery	44			119	1.00		10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP Surr: 2-Fluorophenol	38.3	% Recovery	19			119	1.00		10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP Surr: Nitrobenzene-d5	49.6	% Recovery	44			120	1.00		10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP Surr: Phenol-d5	28.6	% Recovery	1			114	1.00		10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D
TCLP Surr: Terphenyl-d14	61.9	% Recovery	50			134	1.00		10/15/2022 14:20	10/18/22	21:39 JJY	EPA 8270D

CT LAB#: 1248293

Sample Description: CM-WC-SC-F3-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	83.4	%	0.1	0.1	0.1	0.1	1.00			10/14/22	19:26 BMM	EPA 8000C
Free Liquids	Absent						1.00			10/14/22	14:22 HLB	EPA 9095B ^
pH	7.92	S.U.	0.1	0.1	0.1	0.1	1.00			10/13/22	15:20 HLB	EPA 9045D ^
Flashpoint	>140	Deg. F					1.00			10/14/22	11:00 HLB	EPA 1010A ^
Percent Moisture	16.6	%	0.1	0.1	0.1	0.1	1.00	Y		10/14/22	19:26 BMM	ASTM D2974-87
Cyanide, Reactive	<20	mg/kg	20	20	20	20	1.00	U		10/18/22	11:00 HLB	SW 846 Ch. 7 ^
Metals Results												
Mercury	21.7	mg/kg	0.33	0.77	1.0	1.0	100.00	M	10/18/2022 13:35	10/20/22	10:21 MDS	EPA 7471B
Aluminum	6500	mg/kg	2.6	6.2	25	25	1.00	M,Y	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Antimony	6.2	mg/kg	0.19	0.37	1.2	1.2	1.00	M,Y	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Arsenic	31	mg/kg	0.24	0.62	1.2	1.2	1.00	Y	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Barium	1000	mg/kg	0.65	2.5	6.2	6.2	10.00	M,Y	10/14/2022 11:31	10/17/22	15:30 NAH	EPA 6010D
Beryllium	<0.022	mg/kg	0.022	0.062	0.25	0.25	1.00	U M	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Cadmium	24	mg/kg	0.34	1.2	3.1	3.1	10.00	M,Y	10/14/2022 11:31	10/17/22	15:30 NAH	EPA 6010D
Calcium	40000	mg/kg	36	100	310	310	10.00	M,Y	10/14/2022 11:31	10/17/22	15:30 NAH	EPA 6010D
Chromium	210	mg/kg	0.089	0.25	0.62	0.62	1.00	M,Y	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Cobalt	20	mg/kg	0.056	0.12	0.62	0.62	1.00	Y	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Copper	2000	mg/kg	0.16	0.37	0.62	0.62	1.00	M,Y	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Iron	110000	mg/kg	37	94	190	190	10.00	M,Y	10/14/2022 11:31	10/17/22	15:30 NAH	EPA 6010D
Lead	2900	mg/kg	0.097	0.25	0.62	0.62	1.00	M	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Magnesium	15000	mg/kg	4.6	12	31	31	1.00	M,Y	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Manganese	1000	mg/kg	0.087	0.25	0.62	0.62	1.00	M,Y	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Nickel	430	mg/kg	0.075	0.25	0.62	0.62	1.00	M,Y	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Selenium	<0.31	mg/kg	0.31	0.62	1.2	1.2	1.00	U	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Silver	3.6	mg/kg	2.2	6.2	12	12	10.00	J M,V	10/14/2022 11:31	10/17/22	15:30 NAH	EPA 6010D
Thallium	10	mg/kg	0.27	0.62	1.2	1.2	1.00	M,Y	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248293

Sample Description: CM-WC-SC-F3-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vanadium	120	mg/kg	0.064	0.25	0.62	0.62	1.00	M,Y	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Zinc	2600	mg/kg	0.082	0.25	0.62	0.62	1.00	M	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Potassium	540	mg/kg	42	94	310	310	1.00	Y	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Sodium	481	mg/kg	40	120	310	310	1.00	Y	10/14/2022 11:31	10/17/22	14:09 NAH	EPA 6010D
Organic Results												
4,4'-DDD	<12	ug/kg	12	24	48	48	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
4,4'-DDE	<6.0	ug/kg	6.0	24	48	48	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
4,4'-DDT	<20	ug/kg	20	48	72	72	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
Aldrin	<16	ug/kg	16	48	72	72	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
alpha-BHC	<17	ug/kg	17	48	72	72	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
alpha-Chlordane	<11	ug/kg	11	24	48	48	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
beta-BHC	<12	ug/kg	12	24	48	48	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
Chlordane (Technical)	<230	ug/kg	230	480	720	720	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
delta-BHC	<11	ug/kg	11	24	48	48	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
Dieldrin	320	ug/kg	9.6	24	48	48	10.00	P,M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
Endosulfan I	187	ug/kg	17	48	72	72	10.00	P,M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
Endosulfan II	<16	ug/kg	16	48	72	72	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
Endosulfan sulfate	<16	ug/kg	16	48	72	72	10.00	U	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
Endrin	<16	ug/kg	16	48	72	72	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
Endrin aldehyde	381	ug/kg	13	48	72	72	10.00	P,M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
Endrin ketone	<12	ug/kg	12	24	48	48	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
gamma-Chlordane	<11	ug/kg	11	24	48	48	10.00	U M,Y	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
Heptachlor	<18	ug/kg	18	48	72	72	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
Heptachlor epoxide	<12	ug/kg	12	24	48	48	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
Lindane	<19	ug/kg	19	48	72	72	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
Methoxychlor	<24	ug/kg	24	48	72	72	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
Toxaphene	<240	ug/kg	240	480	720	720	10.00	U M	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248293

Sample Description: CM-WC-SC-F3-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
SURR:2,4,5,6-CL4-m-xylene	277	% Recovery	42			129	10.00	S	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
SURR:Decachlorobiphenyl	140	% Recovery	40			138	10.00	S,Z	10/14/2022 11:00	10/19/22	01:25 AJZ	EPA 8081B
1,1'-Biphenyl	<470	ug/kg	470	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
1,2,4,5-Tetrachlorobenzene	<1200	ug/kg	1200	2400	4700	4700	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
2,4,5-Trichlorophenol	<2400	ug/kg	2400	5900	12000	12000	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
2,4,6-Trichlorophenol	<2400	ug/kg	2400	5900	12000	12000	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
2,4-Dichlorophenol	<2700	ug/kg	2700	5900	12000	12000	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
2,4-Dimethylphenol	<1800	ug/kg	1800	5900	12000	12000	10.00	U Q	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
2,4-Dinitrophenol	<2400	ug/kg	2400	5900	12000	12000	10.00	U M	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
2,4-Dinitrotoluene	<590	ug/kg	590	1200	2400	2400	10.00	U M,Y	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
2,6-Dinitrotoluene	<590	ug/kg	590	1200	2400	2400	10.00	U M	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
2-Chloronaphthalene	<470	ug/kg	470	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
2-Chlorophenol	<1800	ug/kg	1800	5900	12000	12000	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
2-Methylnaphthalene	1100	ug/kg	590	1200	2400	2400	10.00	J	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
2-Methylphenol	<2400	ug/kg	2400	5900	12000	12000	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
2-Nitroaniline	<940	ug/kg	940	2400	4700	4700	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
2-Nitrophenol	<3500	ug/kg	3500	5900	12000	12000	10.00	U M,Y	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
3 & 4-Methylphenol	<3500	ug/kg	3500	12000	24000	24000	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
3,3'-Dichlorobenzidine	<940	ug/kg	940	2400	4700	4700	10.00	U M	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
3-Nitroaniline	<470	ug/kg	470	1200	2400	2400	10.00	U M,Y	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<2400	ug/kg	2400	5900	12000	12000	10.00	U M	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
4-Bromophenyl-phenyl ether	<590	ug/kg	590	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
4-Chloro-3-methylphenol	<2400	ug/kg	2400	5900	12000	12000	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
4-Chloroaniline	<590	ug/kg	590	2400	4700	4700	10.00	U M	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
4-Chlorophenyl-phenyl ether	<590	ug/kg	590	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
4-Nitroaniline	<470	ug/kg	470	1200	2400	2400	10.00	U M	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
4-Nitrophenol	<3500	ug/kg	3500	5900	12000	12000	10.00	U M	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Acenaphthene	2170	ug/kg	830	2400	4700	4700	10.00	J M	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248293

Sample Description: CM-WC-SC-F3-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Acenaphthylene	<590	ug/kg	590	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Acetophenone	<590	ug/kg	590	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Anthracene	4890	ug/kg	470	1200	2400	2400	10.00	M	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Atrazine	<470	ug/kg	470	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Benzaldehyde	<590	ug/kg	590	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Benzo(a)anthracene	12500	ug/kg	470	1200	2400	2400	10.00	M,Y	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Benzo(a)pyrene	12700	ug/kg	940	2400	4700	4700	20.00	Y	10/14/2022 11:00	10/20/22	11:42 JJY	EPA 8270D
Benzo(b)fluoranthene	19300	ug/kg	1200	2400	4700	4700	20.00		10/14/2022 11:00	10/20/22	11:42 JJY	EPA 8270D
Benzo(g,h,i)perylene	8240	ug/kg	940	2400	4700	4700	20.00		10/14/2022 11:00	10/20/22	11:42 JJY	EPA 8270D
Benzo(k)fluoranthene	5560	ug/kg	1200	2400	4700	4700	20.00	Y	10/14/2022 11:00	10/20/22	11:42 JJY	EPA 8270D
Bis(2-chloroethoxy)methane	<470	ug/kg	470	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Bis(2-chloroethyl)ether	<590	ug/kg	590	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Bis(2-chloroisopropyl)ether	<590	ug/kg	590	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Bis(2-ethylhexyl)phthalate	6400	ug/kg	590	1200	2400	2400	10.00		10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Butylbenzylphthalate	<940	ug/kg	940	2400	4700	4700	10.00	U Y	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Caprolactam	<1200	ug/kg	1200	2400	4700	4700	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Carbazole	3520	ug/kg	710	2400	4700	4700	10.00	J M	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Chrysene	11900	ug/kg	470	1200	2400	2400	10.00	M,Y	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Di-n-butylphthalate	<1200	ug/kg	1200	2400	4700	4700	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Di-n-octylphthalate	<470	ug/kg	470	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Dibenzo(a,h)anthracene	3320	ug/kg	1200	2400	4700	4700	20.00	J	10/14/2022 11:00	10/20/22	11:42 JJY	EPA 8270D
Dibenzofuran	1020	ug/kg	470	1200	2400	2400	10.00	J M	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Diethylphthalate	<470	ug/kg	470	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Dimethylphthalate	<590	ug/kg	590	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Fluoranthene	22300	ug/kg	470	1200	2400	2400	10.00	M,Y	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Fluorene	1910	ug/kg	590	1200	2400	2400	10.00	J M	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Hexachlorobenzene	<590	ug/kg	590	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Hexachlorobutadiene	<590	ug/kg	590	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248293

Sample Description: CM-WC-SC-F3-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorocyclopentadiene	<590	ug/kg	590	1200	2400	2400	10.00	U M	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Hexachloroethane	<470	ug/kg	470	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Indeno(1,2,3-cd)pyrene	9180	ug/kg	940	2400	4700	4700	20.00		10/14/2022 11:00	10/20/22	11:42 JJY	EPA 8270D
Isophorone	<470	ug/kg	470	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
N-Nitroso-di-n-propylamine	<590	ug/kg	590	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
N-Nitrosodiphenylamine & Diphn	<1200	ug/kg	1200	2400	4700	4700	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Naphthalene	1500	ug/kg	470	1200	2400	2400	10.00	J M	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Nitrobenzene	<470	ug/kg	470	1200	2400	2400	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Pentachlorophenol	<2400	ug/kg	2400	5900	12000	12000	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Phenanthrene	15000	ug/kg	470	1200	2400	2400	10.00	M	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Phenol	<2400	ug/kg	2400	5900	12000	12000	10.00	U	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Pyrene	21400	ug/kg	590	1200	2400	2400	10.00	M,Y	10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	73.4	% Recovery	39			132	10.00		10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Surr: 2-Fluorobiphenyl	71.2	% Recovery	44			115	10.00		10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Surr: 2-Fluorophenol	61.5	% Recovery	35			115	10.00		10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Surr: Nitrobenzene-d5	42.0	% Recovery	37			122	10.00		10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Surr: Phenol-d5	60.5	% Recovery	33			122	10.00		10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Surr: Terphenyl-d14	86.6	% Recovery	54			127	10.00		10/14/2022 11:00	10/19/22	13:38 JJY	EPA 8270D
Aroclor-1016	<410	ug/kg	410	960	1400	1400	20.00	U	10/14/2022 11:00	10/19/22	15:22 AJZ	EPA 8082A
Aroclor-1221	<670	ug/kg	670	1400	1900	1900	20.00	U	10/14/2022 11:00	10/19/22	15:22 AJZ	EPA 8082A
Aroclor-1232	<260	ug/kg	260	960	1400	1400	20.00	U	10/14/2022 11:00	10/19/22	15:22 AJZ	EPA 8082A
Aroclor-1242	<240	ug/kg	240	960	1400	1400	20.00	U	10/14/2022 11:00	10/19/22	15:22 AJZ	EPA 8082A
Aroclor-1248	50300	ug/kg	1700	4800	7200	7200	100.00		10/14/2022 11:00	10/19/22	17:11 AJZ	EPA 8082A
Aroclor-1254	29100	ug/kg	2200	4800	7200	7200	100.00		10/14/2022 11:00	10/19/22	17:11 AJZ	EPA 8082A
Aroclor-1260	9990	ug/kg	260	960	1400	1400	20.00	M	10/14/2022 11:00	10/19/22	15:22 AJZ	EPA 8082A
Aroclor-1262	<240	ug/kg	240	960	1400	1400	20.00	U	10/14/2022 11:00	10/19/22	15:22 AJZ	EPA 8082A
Aroclor-1268	<410	ug/kg	410	960	1400	1400	20.00	U	10/14/2022 11:00	10/19/22	15:22 AJZ	EPA 8082A
PCB, Total	89400	ug/kg	670	1400	1900	1900	20.00		10/14/2022 11:00	10/19/22	15:22 AJZ	EPA 8082A

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248293

Sample Description: CM-WC-SC-F3-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2,4,5,6-TCMX	109	% Recovery	54			135	20.00		10/14/2022 11:00	10/19/22	15:22 AJZ	EPA 8082A
Surr: DCBP	160	% Recovery	54			141	20.00	S	10/14/2022 11:00	10/19/22	15:22 AJZ	EPA 8082A
1,1,1-Trichloroethane	<35	ug/kg	35	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<29	ug/kg	29	59	120	120	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
1,1,2-Trichloroethane	<32	ug/kg	32	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
1,1-Dichloroethane	<32	ug/kg	32	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
1,1-Dichloroethene	<28	ug/kg	28	59	120	120	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
1,2,3-Trichlorobenzene	<23	ug/kg	23	59	120	120	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
1,2,4-Trichlorobenzene	32.0	ug/kg	15	59	120	120	1.00	J	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<18	ug/kg	18	59	120	120	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
1,2-Dibromoethane	<21	ug/kg	21	59	120	120	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
1,2-Dichlorobenzene	<18	ug/kg	18	59	120	120	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
1,2-Dichloroethane	<26	ug/kg	26	59	120	120	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
1,2-Dichloropropane	<30	ug/kg	30	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
1,3-Dichlorobenzene	<16	ug/kg	16	59	120	120	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
1,4-Dichlorobenzene	18.6	ug/kg	18	59	120	120	1.00	J	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
112Trichloro122trifluoroethane	<73	ug/kg	73	230	470	470	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
2-Butanone	<330	ug/kg	330	1200	2300	2300	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
2-Hexanone	<180	ug/kg	180	590	1200	1200	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
4-Methyl-2-pentanone	<350	ug/kg	350	1200	2300	2300	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Acetone	<290	ug/kg	290	590	1200	1200	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Benzene	<33	ug/kg	33	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Bromochloromethane	<36	ug/kg	36	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Bromodichloromethane	<27	ug/kg	27	59	120	120	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Bromoform	<18	ug/kg	18	59	120	120	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Bromomethane	<110	ug/kg	110	230	470	470	1.00	U Z	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Carbon disulfide	<69	ug/kg	69	230	470	470	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Carbon tetrachloride	<33	ug/kg	33	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248293

Sample Description: CM-WC-SC-F3-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chlorobenzene	<15	ug/kg	15	59	120	120	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Chloroethane	<100	ug/kg	100	230	470	470	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Chloroform	<37	ug/kg	37	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Chloromethane	<39	ug/kg	39	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
cis-1,2-Dichloroethene	80.5	ug/kg	35	120	230	230	1.00	J	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
cis-1,3-Dichloropropene	<34	ug/kg	34	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Cyclohexane	<36	ug/kg	36	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Dibromochloromethane	<18	ug/kg	18	59	120	120	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Dichlorodifluoromethane	<36	ug/kg	36	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Ethylbenzene	113	ug/kg	15	59	120	120	1.00	J	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Isopropylbenzene	17.0	ug/kg	15	59	120	120	1.00	J	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
m & p-Xylene	116	ug/kg	29	120	230	230	1.00	J	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Methyl acetate	174	ug/kg	47	120	230	230	1.00	J Q,Y	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Methyl tert-butyl ether	<28	ug/kg	28	59	120	120	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Methylcyclohexane	<34	ug/kg	34	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Methylene chloride	<49	ug/kg	49	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
o-Xylene	52.5	ug/kg	15	59	120	120	1.00	J	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Styrene	<23	ug/kg	23	59	120	120	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Tetrachloroethene	98.2	ug/kg	40	120	230	230	1.00	J	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Toluene	105	ug/kg	33	120	230	230	1.00	J	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
trans-1,2-Dichloroethene	<34	ug/kg	34	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
trans-1,3-Dichloropropene	<30	ug/kg	30	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Trichloroethene	68.7	ug/kg	35	120	230	230	1.00	J	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Trichlorofluoromethane	<35	ug/kg	35	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Vinyl chloride	<35	ug/kg	35	120	230	230	1.00	U	10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
1,2 Dichloroethane-d4	98.0	% Recovery	71			136	1.00		10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
Bromofluorobenzene	97.0	% Recovery	79			119	1.00		10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248293	Sample Description: CM-WC-SC-F3-221012	Client Sample #:	Sampled: 10/12/2022 10:40
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromofluoromethane	98.0	% Recovery	78			119	1.00		10/18/2022 07:45	10/18/22	09:59 RLD	EPA 8260C

Sub Lab Results

Sulfide Reactive	ATTACHED						1.00		10/24/22	00:00	SUB	SW7.3.4.2
Herbicides	ATTACHED						1.00		10/24/22	00:00	SUB	EPA 8321B

CT LAB#: 1248294	Sample Description: CM-WC-SC-ST-221012	Client Sample #:	Sampled: 10/12/2022 10:40
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TCLP Arsenic	0.0078	mg/L	0.0077	0.02	0.04	0.04	1.00	J	10/15/2022 14:20	10/18/22	15:27 NAH	EPA 6010C
TCLP Barium	3.0	mg/L	0.00071	0.002	0.004	0.004	1.00		10/15/2022 14:20	10/18/22	15:27 NAH	EPA 6010C
TCLP Cadmium	0.41	mg/L	0.00041	0.001	0.002	0.002	1.00		10/15/2022 14:20	10/18/22	15:27 NAH	EPA 6010C
TCLP Chromium	0.0037	mg/L	0.0011	0.0025	0.005	0.005	1.00	J	10/15/2022 14:20	10/18/22	15:27 NAH	EPA 6010C
TCLP Lead	5.0	mg/L	0.0014	0.002	0.004	0.004	1.00		10/15/2022 14:20	10/18/22	15:27 NAH	EPA 6010C
TCLP Selenium	<0.01	mg/L	0.01	0.02	0.04	0.04	1.00	U	10/15/2022 14:20	10/18/22	15:27 NAH	EPA 6010C
TCLP Silver	<0.0011	mg/L	0.0011	0.0025	0.005	0.005	1.00	U	10/15/2022 14:20	10/18/22	15:27 NAH	EPA 6010C
TCLP Mercury	0.000092	mg/L	0.00002	0.00008	0.00012	0.00012	1.00	J	10/15/2022 14:20	10/19/22	14:45 MDS	EPA 7470A

Organic Results

TCLP 1,1-Dichloroethene	<0.049	mg/L	0.049	0.10	0.20	0.20	100.00	U	10/20/2022 09:00	10/20/22	13:03 DGS	EPA 8260C
TCLP 1,2-Dichloroethane	<0.069	mg/L	0.069	0.20	0.21	0.21	100.00	U	10/20/2022 09:00	10/20/22	13:03 DGS	EPA 8260C
TCLP 2-Butanone	<0.29	mg/L	0.29	1.0	1.1	1.1	100.00	U	10/20/2022 09:00	10/20/22	13:03 DGS	EPA 8260C
TCLP Benzene	<0.047	mg/L	0.047	0.10	0.20	0.20	100.00	U	10/20/2022 09:00	10/20/22	13:03 DGS	EPA 8260C
TCLP Carbon tetrachloride	<0.037	mg/L	0.037	0.10	0.12	0.12	100.00	U	10/20/2022 09:00	10/20/22	13:03 DGS	EPA 8260C
TCLP Chlorobenzene	<0.037	mg/L	0.037	0.10	0.12	0.12	100.00	U	10/20/2022 09:00	10/20/22	13:03 DGS	EPA 8260C

CT LAB#: 1248294

Sample Description: CM-WC-SC-ST-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TCLP Chloroform	<0.046	mg/L	0.046	0.10	0.14	0.14	100.00	U	10/20/2022 09:00	10/20/22	13:03 DGS	EPA 8260C
TCLP Tetrachloroethene	<0.054	mg/L	0.054	0.10	0.20	0.20	100.00	U	10/20/2022 09:00	10/20/22	13:03 DGS	EPA 8260C
TCLP Trichloroethene	<0.039	mg/L	0.039	0.10	0.12	0.12	100.00	U	10/20/2022 09:00	10/20/22	13:03 DGS	EPA 8260C
TCLP Vinyl chloride	<0.012	mg/L	0.012	0.025	0.050	0.050	100.00	U	10/20/2022 09:00	10/20/22	13:03 DGS	EPA 8260C
TCLP 1,2 Dichloroethane-d4	98.0	% Recovery	81			118	1.00		10/20/2022 09:00	10/20/22	13:03 DGS	EPA 8260C
TCLP Bromofluorobenzene	106	% Recovery	85			114	1.00		10/20/2022 09:00	10/20/22	13:03 DGS	EPA 8260C
TCLP d8-Toluene	97.0	% Recovery	89			112	1.00		10/20/2022 09:00	10/20/22	13:03 DGS	EPA 8260C
TCLP Dibromofluoromethane	99.0	% Recovery	80			119	1.00		10/20/2022 09:00	10/20/22	13:03 DGS	EPA 8260C
TCLP 1,4-Dichlorobenzene	<0.0027	mg/L	0.0027	0.010	0.020	0.020	1.00	U	10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP 2,4,5-Trichlorophenol	<0.019	mg/L	0.019	0.050	0.10	0.10	1.00	U	10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP 2,4,6-Trichlorophenol	<0.017	mg/L	0.017	0.050	0.10	0.10	1.00	U	10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP 2,4-Dinitrotoluene	<0.0025	mg/L	0.0025	0.010	0.020	0.020	1.00	U	10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP 2-Methylphenol	<0.015	mg/L	0.015	0.050	0.10	0.10	1.00	U	10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP 3 & 4-Methylphenol	<0.034	mg/L	0.034	0.090	0.18	0.18	1.00	U	10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP Hexachlorobenzene	<0.0029	mg/L	0.0029	0.010	0.020	0.020	1.00	U	10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP Hexachlorobutadiene	<0.0029	mg/L	0.0029	0.010	0.020	0.020	1.00	U	10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP Hexachloroethane	<0.0031	mg/L	0.0031	0.010	0.020	0.020	1.00	U	10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP Nitrobenzene	<0.0030	mg/L	0.0030	0.010	0.020	0.020	1.00	U	10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP Pentachlorophenol	<0.016	mg/L	0.016	0.050	0.10	0.10	1.00	U	10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP Pyridine	<0.010	mg/L	0.010	0.020	0.040	0.040	1.00	U	10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP Surr: 2,4,6-Tribromophenol	77.3	% Recovery	43			140	1.00		10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP Surr: 2-Fluorobiphenyl	62.1	% Recovery	44			119	1.00		10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP Surr: 2-Fluorophenol	53.4	% Recovery	19			119	1.00		10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP Surr: Nitrobenzene-d5	55.5	% Recovery	44			120	1.00		10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP Surr: Phenol-d5	41.4	% Recovery	1			114	1.00		10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D
TCLP Surr: Terphenyl-d14	69.4	% Recovery	50			134	1.00		10/15/2022 14:20	10/18/22	22:49 JJY	EPA 8270D

CT LAB#: 1248295

Sample Description: CM-WC-SC-ST-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	89.4	%	0.1	0.1	0.1	0.1	1.00			10/14/22	19:26 BMM	EPA 8000C
Free Liquids	Absent						1.00			10/14/22	14:37 HLB	EPA 9095B ^
pH	7.84	S.U.	0.1	0.1	0.1	0.1	1.00			10/13/22	15:20 HLB	EPA 9045D ^
Flashpoint	>140	Deg. F					1.00			10/14/22	11:00 HLB	EPA 1010A ^
Percent Moisture	10.6	%	0.1	0.1	0.1	0.1	1.00			10/14/22	19:26 BMM	ASTM D2974-87
Cyanide, Reactive	<20	mg/kg	20	20	20	20	1.00	U		10/18/22	11:00 HLB	SW 846 Ch. 7 ^
Metals Results												
Mercury	20.0	mg/kg	0.32	0.74	0.98	0.98	100.00		10/18/2022 13:35	10/20/22	10:15 MDS	EPA 7471B
Aluminum	7500	mg/kg	2.4	5.8	23	23	1.00		10/14/2022 11:31	10/17/22	15:21 NAH	EPA 6010D
Antimony	2.1	mg/kg	0.17	0.35	1.2	1.2	1.00		10/14/2022 11:31	10/17/22	15:21 NAH	EPA 6010D
Arsenic	18	mg/kg	0.22	0.58	1.2	1.2	1.00		10/14/2022 11:31	10/17/22	15:21 NAH	EPA 6010D
Barium	860	mg/kg	0.60	2.3	5.8	5.8	10.00		10/14/2022 11:31	10/17/22	15:37 NAH	EPA 6010D
Beryllium	<0.021	mg/kg	0.021	0.058	0.23	0.23	1.00	U	10/14/2022 11:31	10/17/22	15:21 NAH	EPA 6010D
Cadmium	23	mg/kg	0.31	1.2	2.9	2.9	10.00		10/14/2022 11:31	10/17/22	15:37 NAH	EPA 6010D
Calcium	35000	mg/kg	34	93	290	290	10.00		10/14/2022 11:31	10/17/22	15:37 NAH	EPA 6010D
Chromium	150	mg/kg	0.082	0.23	0.58	0.58	1.00		10/14/2022 11:31	10/17/22	15:21 NAH	EPA 6010D
Cobalt	12	mg/kg	0.052	0.12	0.58	0.58	1.00		10/14/2022 11:31	10/17/22	15:21 NAH	EPA 6010D
Copper	1800	mg/kg	0.15	0.35	0.58	0.58	1.00		10/14/2022 11:31	10/17/22	15:21 NAH	EPA 6010D
Iron	110000	mg/kg	35	87	170	170	10.00		10/14/2022 11:31	10/17/22	15:37 NAH	EPA 6010D
Lead	2700	mg/kg	0.090	0.23	0.58	0.58	1.00		10/14/2022 11:31	10/17/22	15:21 NAH	EPA 6010D
Magnesium	11000	mg/kg	43	120	290	290	10.00		10/14/2022 11:31	10/17/22	15:37 NAH	EPA 6010D
Manganese	800	mg/kg	0.081	0.23	0.58	0.58	1.00		10/14/2022 11:31	10/17/22	15:21 NAH	EPA 6010D
Nickel	290	mg/kg	0.70	2.3	5.8	5.8	10.00		10/14/2022 11:31	10/17/22	15:37 NAH	EPA 6010D
Selenium	<0.29	mg/kg	0.29	0.58	1.2	1.2	1.00	U	10/14/2022 11:31	10/17/22	15:21 NAH	EPA 6010D
Silver	2.8	mg/kg	2.1	5.8	12	12	10.00	J V	10/14/2022 11:31	10/17/22	15:37 NAH	EPA 6010D
Thallium	7.9	mg/kg	0.26	0.58	1.2	1.2	1.00		10/14/2022 11:31	10/17/22	15:21 NAH	EPA 6010D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248295

Sample Description: CM-WC-SC-ST-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vanadium	14	mg/kg	0.059	0.23	0.58	0.58	1.00		10/14/2022 11:31	10/17/22	15:21 NAH	EPA 6010D
Zinc	2300	mg/kg	0.077	0.23	0.58	0.58	1.00		10/14/2022 11:31	10/17/22	15:21 NAH	EPA 6010D
Potassium	490	mg/kg	39	87	290	290	1.00		10/14/2022 11:31	10/17/22	15:21 NAH	EPA 6010D
Sodium	565	mg/kg	37	120	290	290	1.00		10/14/2022 11:31	10/17/22	15:21 NAH	EPA 6010D
Organic Results												
4,4'-DDD	<11	ug/kg	11	22	44	44	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
4,4'-DDE	<5.5	ug/kg	5.5	22	44	44	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
4,4'-DDT	<19	ug/kg	19	44	67	67	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
Aldrin	<14	ug/kg	14	44	67	67	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
alpha-BHC	<16	ug/kg	16	44	67	67	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
alpha-Chlordane	<10.0	ug/kg	10.0	22	44	44	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
beta-BHC	<11	ug/kg	11	22	44	44	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
Chlordane (Technical)	<21	ug/kg	21	44	67	67	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
delta-BHC	<10.0	ug/kg	10.0	22	44	44	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
Dieldrin	302	ug/kg	8.9	22	44	44	10.00	P	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
Endosulfan I	181	ug/kg	16	44	67	67	10.00	P	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
Endosulfan II	<14	ug/kg	14	44	67	67	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
Endosulfan sulfate	<14	ug/kg	14	44	67	67	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
Endrin	<14	ug/kg	14	44	67	67	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
Endrin aldehyde	336	ug/kg	12	44	67	67	10.00	P	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
Endrin ketone	<11	ug/kg	11	22	44	44	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
gamma-Chlordane	<10.0	ug/kg	10.0	22	44	44	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
Heptachlor	<17	ug/kg	17	44	67	67	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
Heptachlor epoxide	<11	ug/kg	11	22	44	44	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
Lindane	<18	ug/kg	18	44	67	67	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
Methoxychlor	<22	ug/kg	22	44	67	67	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
Toxaphene	<22	ug/kg	22	44	67	67	10.00	U	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248295

Sample Description: CM-WC-SC-ST-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
SURR:2,4,5,6-CL4-m-xylene	228	% Recovery	42			129	10.00	S	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
SURR:Decachlorobiphenyl	139	% Recovery	40			138	10.00	S,Z	10/14/2022 11:00	10/19/22	00:36 AJZ	EPA 8081B
1,1'-Biphenyl	<450	ug/kg	450	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
1,2,4,5-Tetrachlorobenzene	<1100	ug/kg	1100	2200	4500	4500	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
2,4,5-Trichlorophenol	<2200	ug/kg	2200	5600	11000	11000	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
2,4,6-Trichlorophenol	<2200	ug/kg	2200	5600	11000	11000	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
2,4-Dichlorophenol	<2600	ug/kg	2600	5600	11000	11000	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
2,4-Dimethylphenol	<1700	ug/kg	1700	5600	11000	11000	10.00	U Q	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
2,4-Dinitrophenol	<2200	ug/kg	2200	5600	11000	11000	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
2,4-Dinitrotoluene	<560	ug/kg	560	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
2,6-Dinitrotoluene	<560	ug/kg	560	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
2-Chloronaphthalene	<450	ug/kg	450	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
2-Chlorophenol	<1700	ug/kg	1700	5600	11000	11000	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
2-Methylnaphthalene	<560	ug/kg	560	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
2-Methylphenol	<2200	ug/kg	2200	5600	11000	11000	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
2-Nitroaniline	<890	ug/kg	890	2200	4500	4500	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
2-Nitrophenol	<3300	ug/kg	3300	5600	11000	11000	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
3 & 4-Methylphenol	<3300	ug/kg	3300	11000	22000	22000	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
3,3'-Dichlorobenzidine	<890	ug/kg	890	2200	4500	4500	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
3-Nitroaniline	<450	ug/kg	450	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<2200	ug/kg	2200	5600	11000	11000	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
4-Bromophenyl-phenyl ether	<560	ug/kg	560	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
4-Chloro-3-methylphenol	<2200	ug/kg	2200	5600	11000	11000	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
4-Chloroaniline	<560	ug/kg	560	2200	4500	4500	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
4-Chlorophenyl-phenyl ether	<560	ug/kg	560	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
4-Nitroaniline	<450	ug/kg	450	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
4-Nitrophenol	<3300	ug/kg	3300	5600	11000	11000	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Acenaphthene	1110	ug/kg	780	2200	4500	4500	10.00	J	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248295

Sample Description: CM-WC-SC-ST-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Acenaphthylene	<560	ug/kg	560	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Acetophenone	<560	ug/kg	560	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Anthracene	8950	ug/kg	450	1100	2200	2200	10.00		10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Atrazine	<450	ug/kg	450	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Benzaldehyde	<560	ug/kg	560	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Benzo(a)anthracene	37900	ug/kg	450	1100	2200	2200	10.00		10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Benzo(a)pyrene	22000	ug/kg	890	2200	4500	4500	20.00		10/14/2022 11:00	10/20/22	11:19 JJY	EPA 8270D
Benzo(b)fluoranthene	36100	ug/kg	1100	2200	4500	4500	20.00		10/14/2022 11:00	10/20/22	11:19 JJY	EPA 8270D
Benzo(g,h,i)perylene	10100	ug/kg	890	2200	4500	4500	20.00		10/14/2022 11:00	10/20/22	11:19 JJY	EPA 8270D
Benzo(k)fluoranthene	11200	ug/kg	1100	2200	4500	4500	20.00		10/14/2022 11:00	10/20/22	11:19 JJY	EPA 8270D
Bis(2-chloroethoxy)methane	<450	ug/kg	450	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Bis(2-chloroethyl)ether	<560	ug/kg	560	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Bis(2-chloroisopropyl)ether	<560	ug/kg	560	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Bis(2-ethylhexyl)phthalate	23700	ug/kg	560	1100	2200	2200	10.00		10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Butylbenzylphthalate	7610	ug/kg	890	2200	4500	4500	10.00		10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Caprolactam	<1100	ug/kg	1100	2200	4500	4500	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Carbazole	4120	ug/kg	670	2200	4500	4500	10.00	J	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Chrysene	35200	ug/kg	450	1100	2200	2200	10.00		10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Di-n-butylphthalate	<1100	ug/kg	1100	2200	4500	4500	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Di-n-octylphthalate	<450	ug/kg	450	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Dibenzo(a,h)anthracene	3800	ug/kg	1100	2200	4500	4500	20.00	J	10/14/2022 11:00	10/20/22	11:19 JJY	EPA 8270D
Dibenzofuran	500	ug/kg	450	1100	2200	2200	10.00	J	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Diethylphthalate	462	ug/kg	450	1100	2200	2200	10.00	J	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Dimethylphthalate	<560	ug/kg	560	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Fluoranthene	88000	ug/kg	890	2200	4500	4500	20.00		10/14/2022 11:00	10/20/22	11:19 JJY	EPA 8270D
Fluorene	1130	ug/kg	560	1100	2200	2200	10.00	J	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Hexachlorobenzene	<560	ug/kg	560	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Hexachlorobutadiene	<560	ug/kg	560	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248295

Sample Description: CM-WC-SC-ST-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorocyclopentadiene	<560	ug/kg	560	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Hexachloroethane	<450	ug/kg	450	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Indeno(1,2,3-cd)pyrene	10700	ug/kg	890	2200	4500	4500	20.00		10/14/2022 11:00	10/20/22	11:19 JJY	EPA 8270D
Isophorone	<450	ug/kg	450	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
N-Nitroso-di-n-propylamine	<560	ug/kg	560	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
N-Nitrosodiphenylamine & Diphn	<1100	ug/kg	1100	2200	4500	4500	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Naphthalene	588	ug/kg	450	1100	2200	2200	10.00	J	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Nitrobenzene	<450	ug/kg	450	1100	2200	2200	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Pentachlorophenol	<2200	ug/kg	2200	5600	11000	11000	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Phenanthrene	23700	ug/kg	450	1100	2200	2200	10.00		10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Phenol	<2200	ug/kg	2200	5600	11000	11000	10.00	U	10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Pyrene	83900	ug/kg	1100	2200	4500	4500	20.00		10/14/2022 11:00	10/20/22	11:19 JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	62.8	% Recovery	39			132	10.00		10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Surr: 2-Fluorobiphenyl	64.5	% Recovery	44			115	10.00		10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Surr: 2-Fluorophenol	56.5	% Recovery	35			115	10.00		10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Surr: Nitrobenzene-d5	49.3	% Recovery	37			122	10.00		10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Surr: Phenol-d5	57.0	% Recovery	33			122	10.00		10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Surr: Terphenyl-d14	84.0	% Recovery	54			127	10.00		10/14/2022 11:00	10/19/22	13:15 JJY	EPA 8270D
Aroclor-1016	<380	ug/kg	380	890	1300	1300	20.00	U	10/14/2022 11:00	10/19/22	15:01 AJZ	EPA 8082A
Aroclor-1221	<620	ug/kg	620	1300	1800	1800	20.00	U	10/14/2022 11:00	10/19/22	15:01 AJZ	EPA 8082A
Aroclor-1232	<240	ug/kg	240	890	1300	1300	20.00	U	10/14/2022 11:00	10/19/22	15:01 AJZ	EPA 8082A
Aroclor-1242	<220	ug/kg	220	890	1300	1300	20.00	U	10/14/2022 11:00	10/19/22	15:01 AJZ	EPA 8082A
Aroclor-1248	52200	ug/kg	1600	4400	6700	6700	100.00		10/14/2022 11:00	10/19/22	16:50 AJZ	EPA 8082A
Aroclor-1254	29200	ug/kg	2000	4400	6700	6700	100.00		10/14/2022 11:00	10/19/22	16:50 AJZ	EPA 8082A
Aroclor-1260	9360	ug/kg	240	890	1300	1300	20.00		10/14/2022 11:00	10/19/22	15:01 AJZ	EPA 8082A
Aroclor-1262	<220	ug/kg	220	890	1300	1300	20.00	U	10/14/2022 11:00	10/19/22	15:01 AJZ	EPA 8082A
Aroclor-1268	<380	ug/kg	380	890	1300	1300	20.00	U	10/14/2022 11:00	10/19/22	15:01 AJZ	EPA 8082A
PCB, Total	90800	ug/kg	620	1300	1800	1800	20.00		10/14/2022 11:00	10/19/22	15:01 AJZ	EPA 8082A

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248295

Sample Description: CM-WC-SC-ST-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2,4,5,6-TCMX	122	% Recovery	54			135	20.00		10/14/2022 11:00	10/19/22	15:01 AJZ	EPA 8082A
Surr: DCBP	123	% Recovery	54			141	20.00		10/14/2022 11:00	10/19/22	15:01 AJZ	EPA 8082A
1,1,1-Trichloroethane	<34	ug/kg	34	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<29	ug/kg	29	57	110	110	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
1,1,2-Trichloroethane	<31	ug/kg	31	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
1,1-Dichloroethane	<31	ug/kg	31	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
1,1-Dichloroethene	<28	ug/kg	28	57	110	110	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
1,2,3-Trichlorobenzene	<23	ug/kg	23	57	110	110	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
1,2,4-Trichlorobenzene	29.4	ug/kg	15	57	110	110	1.00	J	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<17	ug/kg	17	57	110	110	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
1,2-Dibromoethane	<21	ug/kg	21	57	110	110	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
1,2-Dichlorobenzene	<17	ug/kg	17	57	110	110	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
1,2-Dichloroethane	<25	ug/kg	25	57	110	110	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
1,2-Dichloropropane	<30	ug/kg	30	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
1,3-Dichlorobenzene	<16	ug/kg	16	57	110	110	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
1,4-Dichlorobenzene	<17	ug/kg	17	57	110	110	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
112Trichloro122trifluoroethane	<71	ug/kg	71	230	460	460	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
2-Butanone	<320	ug/kg	320	1100	2300	2300	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
2-Hexanone	<170	ug/kg	170	570	1100	1100	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
4-Methyl-2-pentanone	<340	ug/kg	340	1100	2300	2300	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Acetone	<290	ug/kg	290	570	1100	1100	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Benzene	<32	ug/kg	32	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Bromochloromethane	<36	ug/kg	36	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Bromodichloromethane	<26	ug/kg	26	57	110	110	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Bromoform	<17	ug/kg	17	57	110	110	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Bromomethane	<100	ug/kg	100	230	460	460	1.00	U Z	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Carbon disulfide	<68	ug/kg	68	230	460	460	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Carbon tetrachloride	<32	ug/kg	32	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248295

Sample Description: CM-WC-SC-ST-221012

Client Sample #:

Sampled: 10/12/2022 10:40

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chlorobenzene	<15	ug/kg	15	57	110	110	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Chloroethane	<97	ug/kg	97	230	460	460	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Chloroform	<37	ug/kg	37	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Chloromethane	<38	ug/kg	38	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
cis-1,2-Dichloroethene	109	ug/kg	34	110	230	230	1.00	J	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
cis-1,3-Dichloropropene	<33	ug/kg	33	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Cyclohexane	<36	ug/kg	36	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Dibromochloromethane	<17	ug/kg	17	57	110	110	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Dichlorodifluoromethane	<36	ug/kg	36	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Ethylbenzene	108	ug/kg	15	57	110	110	1.00	J	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Isopropylbenzene	25.1	ug/kg	15	57	110	110	1.00	J	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
m & p-Xylene	82.1	ug/kg	29	110	230	230	1.00	J	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Methyl acetate	108	ug/kg	46	110	230	230	1.00	J Q,Y	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Methyl tert-butyl ether	<28	ug/kg	28	57	110	110	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Methylcyclohexane	<33	ug/kg	33	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Methylene chloride	<48	ug/kg	48	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
o-Xylene	40.0	ug/kg	15	57	110	110	1.00	J	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Styrene	157	ug/kg	23	57	110	110	1.00		10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Tetrachloroethene	162	ug/kg	39	110	230	230	1.00	J	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Toluene	76.4	ug/kg	32	110	230	230	1.00	J	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
trans-1,2-Dichloroethene	<33	ug/kg	33	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
trans-1,3-Dichloropropene	<30	ug/kg	30	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Trichloroethene	68.0	ug/kg	34	110	230	230	1.00	J	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Trichlorofluoromethane	289	ug/kg	34	110	230	230	1.00		10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Vinyl chloride	<34	ug/kg	34	110	230	230	1.00	U	10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
1,2 Dichloroethane-d4	99.0	% Recovery	71			136	1.00		10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
Bromofluorobenzene	102	% Recovery	79			119	1.00		10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248295	Sample Description: CM-WC-SC-ST-221012	Client Sample #:	Sampled: 10/12/2022 10:40
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromofluoromethane	100	% Recovery	78			119	1.00		10/18/2022 07:45	10/18/22	10:27 RLD	EPA 8260C

Sub Lab Results

Sulfide Reactive	ATTACHED						1.00		10/24/22	00:00	SUB	SW7.3.4.2
Herbicides	ATTACHED						1.00		10/24/22	00:00	SUB	EPA 8321B

CT LAB#: 1248296	Sample Description: CM-WC-SC-G1-221012	Client Sample #:	Sampled: 10/12/2022 15:11
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Solids, Percent	85.5	%	0.1	0.1	0.1	0.1	1.00			10/14/22	19:26 BMM	EPA 8000C
Flashpoint	>140	Deg. F					1.00			10/14/22	11:00 HLB	EPA 1010A ^
Percent Moisture	14.5	%	0.1	0.1	0.1	0.1	1.00			10/14/22	19:26 BMM	ASTM D2974-87
Cyanide, Reactive	<20	mg/kg	20	20	20	20	1.00	U		10/18/22	11:00 HLB	SW 846 Ch. 7 ^

Organic Results

4,4'-DDD	<12	ug/kg	12	23	47	47	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
4,4'-DDE	<5.9	ug/kg	5.9	23	47	47	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
4,4'-DDT	<20	ug/kg	20	47	70	70	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
Aldrin	<15	ug/kg	15	47	70	70	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
alpha-BHC	<16	ug/kg	16	47	70	70	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
alpha-Chlordane	<11	ug/kg	11	23	47	47	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
beta-BHC	<12	ug/kg	12	23	47	47	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
Chlordane (Technical)	<220	ug/kg	220	470	700	700	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
delta-BHC	<11	ug/kg	11	23	47	47	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
Dieldrin	339	ug/kg	9.4	23	47	47	10.00	P	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B

CT LAB#: 1248296 Sample Description: CM-WC-SC-G1-221012 Client Sample #: Sampled: 10/12/2022 15:11

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Endosulfan I	193	ug/kg	16	47	70	70	10.00	P	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
Endosulfan II	<15	ug/kg	15	47	70	70	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
Endosulfan sulfate	<15	ug/kg	15	47	70	70	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
Endrin	<15	ug/kg	15	47	70	70	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
Endrin aldehyde	381	ug/kg	13	47	70	70	10.00	P	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
Endrin ketone	<12	ug/kg	12	23	47	47	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
gamma-Chlordane	<11	ug/kg	11	23	47	47	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
Heptachlor	<18	ug/kg	18	47	70	70	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
Heptachlor epoxide	<12	ug/kg	12	23	47	47	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
Lindane	<19	ug/kg	19	47	70	70	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
Methoxychlor	<23	ug/kg	23	47	70	70	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
Toxaphene	<230	ug/kg	230	470	700	700	10.00	U	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
SURR:2,4,5,6-CL4-m-xylene	214	% Recovery	42			129	10.00	S	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B
SURR:Decachlorobiphenyl	95.2	% Recovery	40			138	10.00	Z	10/14/2022 11:00	10/19/22	00:53 AJZ	EPA 8081B

Sub Lab Results

Sulfide Reactive	ATTACHED						1.00			10/24/22	00:00 SUB	SW7.3.4.2
Herbicides	ATTACHED						1.00			10/24/22	00:00 SUB	EPA 8321B

CT LAB#: 1248297 Sample Description: TRIP BLANK Client Sample #: Sampled: 10/12/2022

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1,1-Trichloroethane	<0.38	ug/L	0.38	1.0	1.2	1.2	1.00	U		10/17/22	10:05 DGS	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.36	ug/L	0.36	1.0	1.1	1.1	1.00	U		10/17/22	10:05 DGS	EPA 8260C
1,1,2-Trichloroethane	<0.27	ug/L	0.27	1.0	1.1	1.1	1.00	U		10/17/22	10:05 DGS	EPA 8260C

Organic Results

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248297

Sample Description: TRIP BLANK

Client Sample #:

Sampled: 10/12/2022

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloroethane	<0.28	ug/L	0.28	1.0	1.1	1.1	1.00	U		10/17/22	10:05 DGS	EPA 8260C
1,1-Dichloroethene	<0.49	ug/L	0.49	1.0	2.0	2.0	1.00	U		10/17/22	10:05 DGS	EPA 8260C
1,2,3-Trichlorobenzene	<0.43	ug/L	0.43	1.0	2.0	2.0	1.00	U		10/17/22	10:05 DGS	EPA 8260C
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1.0	2.0	2.0	1.00	U		10/17/22	10:05 DGS	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.35	ug/L	0.35	1.0	2.0	2.0	1.00	U		10/17/22	10:05 DGS	EPA 8260C
1,2-Dibromoethane	<0.33	ug/L	0.33	1.0	1.1	1.1	1.00	U		10/17/22	10:05 DGS	EPA 8260C
1,2-Dichlorobenzene	<0.35	ug/L	0.35	1.0	1.1	1.1	1.00	U		10/17/22	10:05 DGS	EPA 8260C
1,2-Dichloroethane	<0.69	ug/L	0.69	2.0	2.1	2.1	1.00	U		10/17/22	10:05 DGS	EPA 8260C
1,2-Dichloropropane	<0.37	ug/L	0.37	1.0	1.2	1.2	1.00	U		10/17/22	10:05 DGS	EPA 8260C
1,3-Dichlorobenzene	<0.30	ug/L	0.30	1.0	1.1	1.1	1.00	U		10/17/22	10:05 DGS	EPA 8260C
1,4-Dichlorobenzene	<0.33	ug/L	0.33	1.0	1.1	1.1	1.00	U		10/17/22	10:05 DGS	EPA 8260C
112Trichloro122trifluoroethane	<1.5	ug/L	1.5	4.0	4.5	4.5	1.00	U		10/17/22	10:05 DGS	EPA 8260C
2-Butanone	<2.9	ug/L	2.9	10	11	11	1.00	U		10/17/22	10:05 DGS	EPA 8260C
2-Hexanone	<3.3	ug/L	3.3	10	11	11	1.00	U		10/17/22	10:05 DGS	EPA 8260C
4-Methyl-2-pentanone	<3.7	ug/L	3.7	10	12	12	1.00	U		10/17/22	10:05 DGS	EPA 8260C
Acetone	<4.1	ug/L	4.1	10	20	20	1.00	U		10/17/22	10:05 DGS	EPA 8260C
Benzene	<0.47	ug/L	0.47	1.0	2.0	2.0	1.00	U		10/17/22	10:05 DGS	EPA 8260C
Bromochloromethane	<0.26	ug/L	0.26	1.0	1.1	1.1	1.00	U		10/17/22	10:05 DGS	EPA 8260C
Bromodichloromethane	<0.080	ug/L	0.080	0.25	0.50	0.50	1.00	U		10/17/22	10:05 DGS	EPA 8260C
Bromoform	<0.50	ug/L	0.50	1.0	2.0	2.0	1.00	U		10/17/22	10:05 DGS	EPA 8260C
Bromomethane	<0.49	ug/L	0.49	1.0	2.0	2.0	1.00	U Z,Q,Y		10/17/22	10:05 DGS	EPA 8260C
Carbon disulfide	<0.83	ug/L	0.83	2.0	4.0	4.0	1.00	U		10/17/22	10:05 DGS	EPA 8260C
Carbon tetrachloride	<0.37	ug/L	0.37	1.0	1.2	1.2	1.00	U		10/17/22	10:05 DGS	EPA 8260C
Chlorobenzene	<0.37	ug/L	0.37	1.0	1.2	1.2	1.00	U		10/17/22	10:05 DGS	EPA 8260C
Chloroethane	<0.36	ug/L	0.36	1.0	2.0	2.0	1.00	U		10/17/22	10:05 DGS	EPA 8260C
Chloroform	<0.46	ug/L	0.46	1.0	1.4	1.4	1.00	U		10/17/22	10:05 DGS	EPA 8260C
Chloromethane	<0.39	ug/L	0.39	1.0	2.0	2.0	1.00	U		10/17/22	10:05 DGS	EPA 8260C
cis-1,2-Dichloroethene	<0.41	ug/L	0.41	1.0	1.3	1.3	1.00	U		10/17/22	10:05 DGS	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1248297

Sample Description: TRIP BLANK

Client Sample #:

Sampled: 10/12/2022

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
cis-1,3-Dichloropropene	<0.34	ug/L	0.34	1.0	1.1	1.1	1.00	U		10/17/22 10:05	DGS	EPA 8260C
Cyclohexane	<0.71	ug/L	0.71	2.0	2.2	2.2	1.00	U		10/17/22 10:05	DGS	EPA 8260C
Dibromochloromethane	<0.35	ug/L	0.35	1.0	1.1	1.1	1.00	U		10/17/22 10:05	DGS	EPA 8260C
Dichlorodifluoromethane	<0.63	ug/L	0.63	2.0	2.1	2.1	1.00	U		10/17/22 10:05	DGS	EPA 8260C
Ethylbenzene	<0.42	ug/L	0.42	1.0	1.3	1.3	1.00	U		10/17/22 10:05	DGS	EPA 8260C
Isopropylbenzene	<0.39	ug/L	0.39	1.0	1.2	1.2	1.00	U		10/17/22 10:05	DGS	EPA 8260C
m & p-Xylene	<0.74	ug/L	0.74	2.0	2.3	2.3	1.00	U		10/17/22 10:05	DGS	EPA 8260C
Methyl acetate	<0.34	ug/L	0.34	1.0	2.0	2.0	1.00	U		10/17/22 10:05	DGS	EPA 8260C
Methyl tert-butyl ether	<0.28	ug/L	0.28	1.0	1.1	1.1	1.00	U		10/17/22 10:05	DGS	EPA 8260C
Methylcyclohexane	<0.78	ug/L	0.78	2.0	2.4	2.4	1.00	U		10/17/22 10:05	DGS	EPA 8260C
Methylene chloride	<1.2	ug/L	1.2	4.0	4.1	4.1	1.00	U		10/17/22 10:05	DGS	EPA 8260C
o-Xylene	<0.72	ug/L	0.72	2.0	2.2	2.2	1.00	U		10/17/22 10:05	DGS	EPA 8260C
Styrene	<0.33	ug/L	0.33	1.0	1.1	1.1	1.00	U		10/17/22 10:05	DGS	EPA 8260C
Tetrachloroethene	<0.54	ug/L	0.54	1.0	2.0	2.0	1.00	U		10/17/22 10:05	DGS	EPA 8260C
Toluene	<0.27	ug/L	0.27	1.0	1.1	1.1	1.00	U		10/17/22 10:05	DGS	EPA 8260C
trans-1,2-Dichloroethene	<0.35	ug/L	0.35	1.0	1.1	1.1	1.00	U		10/17/22 10:05	DGS	EPA 8260C
trans-1,3-Dichloropropene	<0.56	ug/L	0.56	2.0	2.1	2.1	1.00	U		10/17/22 10:05	DGS	EPA 8260C
Trichloroethene	<0.39	ug/L	0.39	1.0	1.2	1.2	1.00	U		10/17/22 10:05	DGS	EPA 8260C
Trichlorofluoromethane	<0.41	ug/L	0.41	1.0	2.0	2.0	1.00	U		10/17/22 10:05	DGS	EPA 8260C
Vinyl chloride	<0.12	ug/L	0.12	0.25	0.50	0.50	1.00	U		10/17/22 10:05	DGS	EPA 8260C
1,2 Dichloroethane-d4	101	% Recovery	81			118	1.00			10/17/22 10:05	DGS	EPA 8260C
Bromofluorobenzene	102	% Recovery	85			114	1.00			10/17/22 10:05	DGS	EPA 8260C
d8-Toluene	98.0	% Recovery	89			112	1.00			10/17/22 10:05	DGS	EPA 8260C
Dibromofluoromethane	99.0	% Recovery	80			119	1.00			10/17/22 10:05	DGS	EPA 8260C

Notes:

^ Indicates the laboratory is NELAP accredited for this analyte by the indicated matrix and method . DL (detection limit), LOD (limit of detection), loq (limit of quantitation) as defined by most recent DOD QSM version.

All samples were received intact and properly preserved unless otherwise noted . The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for the parameters where accreditation is required or available, unless noted in the case narrative.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers		Current CT Laboratories Certifications
Code	Description	
B	Analyte detected in the associated Method Blank.	Wisconsin (WDNR) Chemistry ID# 157066030 Wisconsin (DATCP) Bacteriology ID# 289 Louisiana NELAP (primary) ID# 115843 Illinois NELAP Lab ID# 200073 Kansas NELAP Lab ID# E-10368 Virginia NELAP Lab ID# 460203 ISO/IEC 17025-2005 A2LA Cert # 3806.01 DoD-ELAP A2LA 3806.01
C	Toxicity present in BOD sample.	
D	Diluted Out.	
E	Safe, No Total Coliform detected.	
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	
H	Holding time exceeded.	
I	Incubator temperature was outside acceptance limits during test period.	
J	Estimated value.	
L	Significant peaks were detected outside the chromatographic window.	
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	
N	Insufficient BOD oxygen depletion.	
O	Complete BOD oxygen depletion.	
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	
Q	Laboratory Control Sample outside acceptance limits.	
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Y	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

QC Summary Report

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266205	Analysis Date:	10/13/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1248708	Analysis Time:	15:20	Prep Date/Time:	Method:	SW9045C
Parent Sample #:	1248295	Analyst:	HLB	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
pH	7.85	S.U.	7.84					0	1

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266228	Analysis Date:	10/14/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1250035	Analysis Time:	11:00	Prep Date/Time:	Method:	SW1010
Parent Sample #:	1248293	Analyst:	HLB	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Flashpoint	>140	Deg. F	>140					0	5

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	266228	Analysis Date:	10/14/2022	Prep Batch #:	Matrix:	SOLID
CTLab #:	1248789	Analysis Time:	11:00	Prep Date/Time:	Method:	SW1010
Parent Sample #:		Analyst:	HLB	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Flashpoint	81.5	Deg. F			81	101	97 --- 103		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266262	Analysis Date:	10/14/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1249903	Analysis Time:	19:26	Prep Date/Time:	Method:	SW8000C
Parent Sample #:	1248293	Analyst:	BMM	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Solids, Percent	79.6	%	83.4					5	8

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266265	Analysis Date:	10/14/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1250037	Analysis Time:	14:30	Prep Date/Time:	Method:	SW9095
Parent Sample #:	1248293	Analyst:	HLB	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Free Liquids	Absent		Absent					0	

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266308	Analysis Date:	10/18/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1250830	Analysis Time:	11:00	Prep Date/Time:	Method:	SW7.3
Parent Sample #:	1248293	Analyst:	HLB	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	20.0	mg/kg	0	U				0	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	266308	Analysis Date:	10/18/2022	Prep Batch #:	Matrix:	SOLID
CTLab #:	1250140	Analysis Time:	11:00	Prep Date/Time:	Method:	SW7.3
Parent Sample #:		Analyst:	HLB	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	20.0	mg/kg			20.0	100	70 --- 130		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	266308	Analysis Date:	10/18/2022	Prep Batch #:	Matrix:	SOLID
CTLab #:	1250141	Analysis Time:	11:00	Prep Date/Time:	Method:	SW7.3
Parent Sample #:		Analyst:	HLB	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	8	mg/kg		U	0			8	

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Matrix Spike Soil

Analytical Run #:	266308	Analysis Date:	10/18/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1250831	Analysis Time:	11:00	Prep Date/Time:	Method:	SW7.3
Parent Sample #:	1248293	Analyst:	HLB	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	20.0	mg/kg	BDL		20.0	100	70 --- 130		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266357	Analysis Date:	10/14/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1251003	Analysis Time:	19:26	Prep Date/Time:	Method:	A2974-87
Parent Sample #:	1248293	Analyst:	BMM	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Percent Moisture	20.4	%	16.6					21	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266241	Analysis Date:	10/17/2022	Prep Batch #:	127280	Matrix:	SOIL
CTLab #:	1248774	Analysis Time:	14:26	Prep Date/Time:	10/14/2022 11:31	Method:	SW6010
Parent Sample #:	1248293	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	1330	mg/kg	540				10	84	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266241	Analysis Date:	10/17/2022	Prep Batch #:	127280	Matrix:	SOIL
CTLab #:	1248774	Analysis Time:	14:26	Prep Date/Time:	10/14/2022 11:31	Method:	SW6010
Parent Sample #:	1248293	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2420	mg/kg	481				10	134	20

Duplicate

Analytical Run #:	266241	Analysis Date:	10/17/2022	Prep Batch #:	127280	Matrix:	SOIL
CTLab #:	1248774	Analysis Time:	14:26	Prep Date/Time:	10/14/2022 11:31	Method:	SW6010
Parent Sample #:	1248293	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	808	mg/kg	6500				800	156	20
Antimony	41.9	mg/kg	6.2				40	148	20
Arsenic	14.8	mg/kg	31				40	71	20
Barium	1460	mg/kg	1000				20	37	20
Beryllium	0.113	mg/kg	0				8	200	20
Cadmium	37.6	mg/kg	24				10	44	20
Calcium	67400	mg/kg	40000				1000	51	20
Chromium	112	mg/kg	210				20	61	20
Cobalt	9.35	mg/kg	20				20	73	20
Copper	1480	mg/kg	2000				20	30	20
Iron	50900	mg/kg	110000				600	73	20
Lead	3320	mg/kg	2900				20	14	20
Magnesium	35700	mg/kg	15000				1000	82	20
Manganese	643	mg/kg	1000				20	43	20
Nickel	243	mg/kg	430				20	56	20
Selenium	0.311	mg/kg	0	U			40	0	20
Silver	2.65	mg/kg	3.6				40	30	20
Thallium	5.96	mg/kg	10				40	51	20
Vanadium	11.8	mg/kg	120				20	164	20
Zinc	2480	mg/kg	2600				20	5	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	266241	Analysis Date:	10/17/2022	Prep Batch #:	127280	Matrix:	SOLID
CTLab #:	1248773	Analysis Time:	13:55	Prep Date/Time:	10/14/2022 11:31	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	2.36	mg/kg			2.50	94	81 --- 116		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	266241	Analysis Date:	10/17/2022	Prep Batch #:	127280	Matrix:	SOLID
CTLab #:	1248773	Analysis Time:	13:55	Prep Date/Time:	10/14/2022 11:31	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2.19	mg/kg			2.50	88	83 --- 118		

Lab Control Spike Soil

Analytical Run #:	266241	Analysis Date:	10/17/2022	Prep Batch #:	127280	Matrix:	SOLID
CTLab #:	1248773	Analysis Time:	13:55	Prep Date/Time:	10/14/2022 11:31	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	94.0	mg/kg			100	94	74 --- 119		
Antimony	24.5	mg/kg			25.0	98	79 --- 114		
Arsenic	102	mg/kg			100	102	82 --- 111		
Barium	92.5	mg/kg			100	92	83 --- 113		
Beryllium	2.41	mg/kg			2.50	96	83 --- 113		
Cadmium	2.28	mg/kg			2.50	91	82 --- 113		
Calcium	4780	mg/kg			5000	96	81 --- 116		
Chromium	9.25	mg/kg			10.0	92	85 --- 113		
Cobalt	24.1	mg/kg			25.0	96	85 --- 112		
Copper	12.4	mg/kg			12.5	99	81 --- 117		
Iron	47.5	mg/kg			50.0	95	81 --- 118		
Lead	21.7	mg/kg			25.0	87	81 --- 112		
Magnesium	2300	mg/kg			2500	92	78 --- 115		
Manganese	22.6	mg/kg			25.0	90	84 --- 114		
Nickel	23.9	mg/kg			25.0	96	83 --- 113		
Selenium	98.8	mg/kg			100	99	78 --- 111		
Silver	2.21	mg/kg			2.50	88	82 --- 112		
Thallium	95.0	mg/kg			100	95	83 --- 111		
Vanadium	24.1	mg/kg			25.0	96	82 --- 114		
Zinc	24.0	mg/kg			25.0	96	82 --- 113		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	266241	Analysis Date:	10/17/2022	Prep Batch #:	127280	Matrix:	SOLID
CTLab #:	1248772	Analysis Time:	14:02	Prep Date/Time:	10/14/2022 11:31	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	125	mg/kg		U	0		125		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	266241	Analysis Date:	10/17/2022	Prep Batch #:	127280	Matrix:	SOLID
CTLab #:	1248772	Analysis Time:	14:02	Prep Date/Time:	10/14/2022 11:31	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	125	mg/kg		U	0		125		

Method Blank Soil

Analytical Run #:	266241	Analysis Date:	10/17/2022	Prep Batch #:	127280	Matrix:	SOLID
CTLab #:	1248772	Analysis Time:	14:02	Prep Date/Time:	10/14/2022 11:31	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	10	mg/kg		U	0		10		
Antimony	0.50	mg/kg		U	0		0.50		
Arsenic	0.50	mg/kg		U	0		0.50		
Barium	0.25	mg/kg		U	0		0.25		
Beryllium	0.10	mg/kg		U	0		0.10		
Cadmium	0.13	mg/kg		U	0		0.13		
Calcium	13	mg/kg		U	0		13		
Chromium	0.25	mg/kg		U	0		0.25		
Cobalt	0.25	mg/kg		U	0		0.25		
Copper	0.25	mg/kg		U	0		0.25		
Iron	7.5	mg/kg		U	0		7.5		
Lead	0.25	mg/kg		U	0		0.25		
Magnesium	13	mg/kg		U	0		13		
Manganese	0.25	mg/kg		U	0		0.25		
Nickel	0.25	mg/kg		U	0		0.25		
Selenium	0.50	mg/kg		U	0		0.50		
Silver	0.50	mg/kg		U	0		0.50		
Thallium	0.50	mg/kg		U	0		0.50		
Vanadium	0.25	mg/kg		U	0		0.25		
Zinc	0.25	mg/kg		U	0		0.25		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Matrix Spike Duplicate Soil

Analytical Run #:	266241	Analysis Date:	10/17/2022	Prep Batch #:	127280	Matrix:	SOIL
CTLab #:	1248776	Analysis Time:	14:43	Prep Date/Time:	10/14/2022 11:31	Method:	SW6010
Parent Sample #:	1248775	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	3500	mg/kg	540		3120	95	81 --- 116	2	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Matrix Spike Duplicate Soil

Analytical Run #:	266241	Analysis Date:	10/17/2022	Prep Batch #:	127280	Matrix:	SOIL
CTLab #:	1248776	Analysis Time:	14:43	Prep Date/Time:	10/14/2022 11:31	Method:	SW6010
Parent Sample #:	1248775	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	3090	mg/kg	481		3120	84	83 --- 118	6	20

Matrix Spike Duplicate Soil

Analytical Run #:	266241	Analysis Date:	10/17/2022	Prep Batch #:	127280	Matrix:	SOIL
CTLab #:	1248776	Analysis Time:	14:43	Prep Date/Time:	10/14/2022 11:31	Method:	SW6010
Parent Sample #:	1248775	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	4560	mg/kg	6500		125	0	74 --- 119	33	20
Antimony	31.5	mg/kg	6.2		31.2	81	79 --- 114	46	20
Arsenic	0.237	mg/kg	31	U	125	0	82 --- 111	200	20
Barium	521	mg/kg	1000		125	0	83 --- 113	49	20
Beryllium	2.34	mg/kg	BDL		3.12	75	83 --- 113	5	20
Cadmium	22.8	mg/kg	24		3.12	0	82 --- 113	53	20
Calcium	34300	mg/kg	40000		6250	0	81 --- 116	50	20
Chromium	84.0	mg/kg	210		12.5	0	85 --- 113	54	20
Cobalt	35.0	mg/kg	20		31.2	48	85 --- 112	2	20
Copper	1100	mg/kg	2000		15.6	0	81 --- 117	83	20
Iron	37200	mg/kg	110000		62.5	0	81 --- 118	56	20
Lead	26000	mg/kg	2900		31.2	74038	81 --- 112	161	20
Magnesium	17100	mg/kg	15000		3120	67	78 --- 115	53	20
Manganese	865	mg/kg	1000		31.2	0	84 --- 114	19	20
Nickel	226	mg/kg	430		31.2	0	83 --- 113	37	20
Selenium	63.7	mg/kg	BDL		125	51	78 --- 111	15	20
Silver	7.49	mg/kg	3.6		3.12	125	82 --- 112	7	20
Thallium	97.7	mg/kg	10		125	70	83 --- 111	2	20
Vanadium	37.5	mg/kg	120		31.2	0	82 --- 114	11	20
Zinc	3220	mg/kg	2600		31.2	1987	82 --- 113	14	20

Matrix Spike Soil

Analytical Run #:	266241	Analysis Date:	10/17/2022	Prep Batch #:	127280	Matrix:	SOIL
CTLab #:	1248775	Analysis Time:	14:35	Prep Date/Time:	10/14/2022 11:31	Method:	SW6010
Parent Sample #:	1248293	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	3540	mg/kg	540		3110	96	81 --- 116		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Matrix Spike Soil

Analytical Run #:	266241	Analysis Date:	10/17/2022	Prep Batch #:	127280	Matrix:	SOIL
CTLab #:	1248775	Analysis Time:	14:35	Prep Date/Time:	10/14/2022 11:31	Method:	SW6010
Parent Sample #:	1248293	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	3260	mg/kg	481		3110	89	83 --- 118		20

Matrix Spike Soil

Analytical Run #:	266241	Analysis Date:	10/17/2022	Prep Batch #:	127280	Matrix:	SOIL
CTLab #:	1248775	Analysis Time:	14:35	Prep Date/Time:	10/14/2022 11:31	Method:	SW6010
Parent Sample #:	1248293	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	6340	mg/kg	6500		124	0	74 --- 119		20
Antimony	50.3	mg/kg	6.2		31.1	142	79 --- 114		20
Arsenic	97.2	mg/kg	31		124	53	82 --- 111		20
Barium	854	mg/kg	1000		124	0	83 --- 113		20
Beryllium	2.45	mg/kg	BDL		3.11	79	83 --- 113		20
Cadmium	39.1	mg/kg	24		3.11	486	82 --- 113		20
Calcium	56800	mg/kg	40000		6210	271	81 --- 116		20
Chromium	146	mg/kg	210		12.4	0	85 --- 113		20
Cobalt	35.4	mg/kg	20		31.1	50	85 --- 112		20
Copper	2660	mg/kg	2000		15.5	4258	81 --- 117		20
Iron	65900	mg/kg	110000		62.1	0	81 --- 118		20
Lead	2830	mg/kg	2900		31.1	0	81 --- 112		20
Magnesium	29400	mg/kg	15000		3110	463	78 --- 115		20
Manganese	708	mg/kg	1000		31.1	0	84 --- 114		20
Nickel	326	mg/kg	430		31.1	0	83 --- 113		20
Selenium	54.7	mg/kg	BDL		124	44	78 --- 111		20
Silver	6.96	mg/kg	3.6		3.11	108	82 --- 112		20
Thallium	95.7	mg/kg	10		124	69	83 --- 111		20
Vanadium	41.6	mg/kg	120		31.1	0	82 --- 114		20
Zinc	3700	mg/kg	2600		31.1	3537	82 --- 113		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266320	Analysis Date:	10/18/2022	Prep Batch #:	127302	Matrix:	TCLP
CTLab #:	1249878	Analysis Time:	14:56	Prep Date/Time:	10/17/2022 18:54	Method:	SW6010
Parent Sample #:	1248292	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.0118	mg/L	0.012				0.040	2	20
Barium	5.57	mg/L	5.5				0.0040	1	20
Cadmium	0.396	mg/L	0.39				0.0020	2	20
Chromium	0.00509	mg/L	0.0046				0.0050	10	20
Lead	5.57	mg/L	5.5				0.0040	1	20
Selenium	0.01	mg/L	0	U			0.010	0	20
Silver	0.0011	mg/L	0	U			0.0050	0	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Lab Control Spike Water

Analytical Run #:	266320	Analysis Date:	10/18/2022	Prep Batch #:	127302	Matrix:	LIQUID
CTLab #:	1249882	Analysis Time:	14:26	Prep Date/Time:	10/17/2022 18:54	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	4.11	mg/L			4.0	103	50 --- 150		
Barium	3.63	mg/L			4.0	91	50 --- 150		
Cadmium	0.0847	mg/L			0.1	85	50 --- 150		
Chromium	0.368	mg/L			0.4	92	50 --- 150		
Lead	0.803	mg/L			1.0	80	50 --- 150		
Selenium	4.15	mg/L			4.0	104	50 --- 150		
Silver	0.0915	mg/L			0.1	92	50 --- 150		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Method Blank Water

Analytical Run #:	266320	Analysis Date:	10/18/2022	Prep Batch #:	127302	Matrix:	LIQUID
CTLab #:	1249881	Analysis Time:	14:33	Prep Date/Time:	10/17/2022 18:54	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.1	mg/L		U	0		0.1		
Barium	200	mg/L		U	0		200		
Cadmium	.020	mg/L		U	0		.020		
Chromium	0.100	mg/L		U	0		0.100		
Lead	0.1	mg/L		U	0		0.1		
Selenium	0.020	mg/L		U	0		0.020		
Silver	0.1	mg/L		U	0		0.1		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Matrix Spike Duplicate Water

Analytical Run #:	266320	Analysis Date:	10/18/2022	Prep Batch #:	127302	Matrix:	TCLP
CTLab #:	1249880	Analysis Time:	15:12	Prep Date/Time:	10/17/2022 18:54	Method:	SW6010
Parent Sample #:	1249879	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	4.22	mg/L	0.012		4.0	105	50 --- 150	1	20
Barium	9.31	mg/L	5.5		4.0	95	50 --- 150	2	20
Cadmium	0.503	mg/L	0.39		0.1	113	50 --- 150	0	20
Chromium	0.369	mg/L	0.0046		0.4	91	50 --- 150	1	20
Lead	6.69	mg/L	5.5		1.0	119	50 --- 150	1	20
Selenium	4.31	mg/L	BDL		4.0	108	50 --- 150	1	20
Silver	0.0956	mg/L	BDL		0.1	96	50 --- 150	1	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Matrix Spike Water

Analytical Run #:	266320	Analysis Date:	10/18/2022	Prep Batch #:	127302	Matrix:	TCLP
CTLab #:	1249879	Analysis Time:	15:04	Prep Date/Time:	10/17/2022 18:54	Method:	SW6010
Parent Sample #:	1248292	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	4.18	mg/L	0.012		4.0	104	50 --- 150		20
Barium	9.13	mg/L	5.5		4.0	91	50 --- 150		20
Cadmium	0.503	mg/L	0.39		0.1	113	50 --- 150		20
Chromium	0.367	mg/L	0.0046		0.4	91	50 --- 150		20
Lead	6.64	mg/L	5.5		1.0	114	50 --- 150		20
Selenium	4.28	mg/L	BDL		4.0	107	50 --- 150		20
Silver	0.0948	mg/L	BDL		0.1	95	50 --- 150		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266367	Analysis Date:	10/19/2022	Prep Batch #:	127309	Matrix:	TCLP
CTLab #:	1250171	Analysis Time:	14:49	Prep Date/Time:	10/18/2022 14:45	Method:	SW7470A
Parent Sample #:	1248294	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.000091	mg/L	0.000092				0.12	1	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Lab Control Spike Water

Analytical Run #:	266367	Analysis Date:	10/19/2022	Prep Batch #:	127309	Matrix:	LIQUID
CTLab #:	1250170	Analysis Time:	12:43	Prep Date/Time:	10/18/2022 14:45	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00215	mg/L			0.002	108	82 --- 119		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Method Blank Water

Analytical Run #:	266367	Analysis Date:	10/19/2022	Prep Batch #:	127309	Matrix:	LIQUID
CTLab #:	1250169	Analysis Time:	14:39	Prep Date/Time:	10/18/2022 14:45	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00006	mg/L		U	0		0.00006		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Matrix Spike Duplicate Water

Analytical Run #:	266367	Analysis Date:	10/19/2022	Prep Batch #:	127309	Matrix:	TCLP
CTLab #:	1250173	Analysis Time:	14:55	Prep Date/Time:	10/18/2022 14:45	Method:	SW7470A
Parent Sample #:	1250172	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00196	mg/L	0.000092		0.002	93	82 --- 119	2	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Matrix Spike Water

Analytical Run #:	266367	Analysis Date:	10/19/2022	Prep Batch #:	127309	Matrix:	TCLP
CTLab #:	1250172	Analysis Time:	14:52	Prep Date/Time:	10/18/2022 14:45	Method:	SW7470A
Parent Sample #:	1248294	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00193	mg/L	0.000092		0.002	92	82 --- 119		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266371	Analysis Date:	10/20/2022	Prep Batch #:	127267	Matrix:	SOIL
CTLab #:	1248302	Analysis Time:	10:18	Prep Date/Time:	10/18/2022 13:35	Method:	SW7471B
Parent Sample #:	1248293	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	22.0	mg/kg	21.7				0.20	1	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	266371	Analysis Date:	10/20/2022	Prep Batch #:	127267	Matrix:	SOLID
CTLab #:	1248301	Analysis Time:	09:59	Prep Date/Time:	10/18/2022 13:35	Method:	SW7471B
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.078	mg/kg			0.083	94	82 --- 124		

Method Blank Soil									
Analytical Run #:		266371	Analysis Date:		10/20/2022	Prep Batch #:		127267	Matrix: SOLID
CTLab #:		1248300	Analysis Time:		10:06	Prep Date/Time:		10/18/2022 13:35	Method: SW7471B
Parent Sample #:			Analyst:		MDS	Prep Analyst:		MDS	
Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00415	mg/kg		U	0		0.00415		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Matrix Spike Duplicate Soil

Analytical Run #:	266371	Analysis Date:	10/20/2022	Prep Batch #:	127267	Matrix:	SOIL
CTLab #:	1248304	Analysis Time:	10:28	Prep Date/Time:	10/18/2022 13:35	Method:	SW7471B
Parent Sample #:	1248303	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	24.4	mg/kg	21.7		0.10	2700	82 --- 124	11	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Matrix Spike Soil

Analytical Run #:	266371	Analysis Date:	10/20/2022	Prep Batch #:	127267	Matrix:	SOIL
CTLab #:	1248303	Analysis Time:	10:24	Prep Date/Time:	10/18/2022 13:35	Method:	SW7471B
Parent Sample #:	1248293	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	22.0	mg/kg	21.7		0.10	300	82 --- 124		20

Lab Control Spike Duplicate Water

Analytical Run #:	266246	Analysis Date:	10/17/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1251009	Analysis Time:	17:43	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	1251005	Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	10.3	ug/L	10.1		10.0	103	74 --- 131	2	20
1,1,2,2-Tetrachloroethane	9.91	ug/L	9.90		10.0	99	71 --- 121	0	20
1,1,2-Trichloroethane	9.97	ug/L	9.67		10.0	100	80 --- 119	3	20
1,1-Dichloroethane	10.1	ug/L	9.62		10.0	101	77 --- 125	5	20
1,1-Dichloroethene	9.84	ug/L	10.1		10.0	98	71 --- 131	3	20
1,2 Dichloroethane-d4	99.0	% Recovery			100	99.0	81 --- 118	0	
1,2,3-Trichlorobenzene	9.99	ug/L	9.72		10.0	100	69 --- 129	3	20
1,2,4-Trichlorobenzene	9.98	ug/L	9.59		10.0	100	69 --- 130	4	20
1,2-Dibromo-3-chloropropane	9.90	ug/L	8.77		10.0	99	62 --- 128	12	20
1,2-Dibromoethane	9.95	ug/L	9.59		10.0	100	77 --- 121	4	20
1,2-Dichlorobenzene	10.4	ug/L	9.92		10.0	104	80 --- 119	5	20
1,2-Dichloroethane	10.1	ug/L	9.80		10.0	101	73 --- 128	3	20
1,2-Dichloropropane	9.75	ug/L	9.41		10.0	98	78 --- 122	4	20
1,3-Dichlorobenzene	10.3	ug/L	10.0		10.0	103	80 --- 119	3	20
1,4-Dichlorobenzene	10.1	ug/L	10.2		10.0	101	79 --- 118	1	20
112Trichloro122trifluoroethane	21.3	ug/L	21.0		20.0	106	70 --- 136	1	20
2-Butanone	98.1	ug/L	94.2		100	98	56 --- 143	4	20
2-Hexanone	110	ug/L	99.5		100	110	57 --- 139	10	20
4-Methyl-2-pentanone	100	ug/L	90.6		100	100	67 --- 130	10	20
Acetone	99.4	ug/L	99.8		100	99	39 --- 160	0	20
Benzene	9.98	ug/L	9.75		10.0	100	79 --- 120	2	20
Bromochloromethane	9.32	ug/L	9.06		10.0	93	78 --- 123	3	20
Bromodichloromethane	9.77	ug/L	9.66		10.0	98	79 --- 125	1	20
Bromofluorobenzene	105	% Recovery			100	105	85 --- 114	0	
Bromoform	9.56	ug/L	9.64		10.0	96	66 --- 130	1	20
Bromomethane	4.14	ug/L	5.34		10.0	41	53 --- 141	25	20
Carbon disulfide	21.0	ug/L	20.9		20.0	105	64 --- 133	0	20
Carbon tetrachloride	10.2	ug/L	10.3		10.0	102	72 --- 136	1	20
Chlorobenzene	10.0	ug/L	9.89		10.0	100	82 --- 118	1	20
Chloroethane	9.72	ug/L	9.43		10.0	97	60 --- 138	3	20
Chloroform	9.94	ug/L	9.38		10.0	99	79 --- 124	6	20
Chloromethane	8.80	ug/L	8.36		10.0	88	50 --- 139	5	20
cis-1,2-Dichloroethene	9.43	ug/L	9.02		10.0	94	78 --- 123	4	20
cis-1,3-Dichloropropene	9.48	ug/L	9.49		10.0	95	75 --- 124	0	20
Cyclohexane	11.6	ug/L	11.3		10.0	116	71 --- 130	3	20
d8-Toluene	98.0	% Recovery			100	98.0	89 --- 112	0	
Dibromochloromethane	10.1	ug/L	10.2		10.0	101	74 --- 126	1	20
Dibromofluoromethane	97.0	% Recovery			100	97.0	80 --- 119	0	
Dichlorodifluoromethane	10.5	ug/L	10.2		10.0	105	32 --- 152	3	20
Ethylbenzene	10.9	ug/L	10.6		10.0	109	79 --- 121	3	20
Isopropylbenzene	11.1	ug/L	10.8		10.0	111	72 --- 131	3	20
m & p-Xylene	21.6	ug/L	21.1		20.0	108	80 --- 121	2	20

Lab Control Spike Duplicate Water

Analytical Run #:	266246	Analysis Date:	10/17/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1251009	Analysis Time:	17:43	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	1251005	Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl acetate	9.87	ug/L	8.59		10.0	99	56 --- 136	14	20
Methyl tert-butyl ether	9.89	ug/L	9.37		10.0	99	71 --- 124	5	20
Methylcyclohexane	9.99	ug/L	9.91		10.0	100	72 --- 132	1	20
Methylene chloride	9.31	ug/L	9.06		10.0	93	74 --- 124	3	20
o-Xylene	10.3	ug/L	10.0		10.0	103	78 --- 122	3	20
Styrene	10.5	ug/L	10.1		10.0	105	78 --- 123	4	20
Tetrachloroethene	9.54	ug/L	9.49		10.0	95	74 --- 129	1	20
Toluene	10.00	ug/L	9.68		10.0	100	80 --- 121	3	20
trans-1,2-Dichloroethene	9.65	ug/L	9.57		10.0	96	75 --- 124	1	20
trans-1,3-Dichloropropene	9.56	ug/L	9.94		10.0	96	73 --- 127	4	20
Trichloroethene	10.3	ug/L	9.48		10.0	103	79 --- 123	8	20
Trichlorofluoromethane	11.4	ug/L	10.8		10.0	114	65 --- 141	5	20
Vinyl chloride	9.63	ug/L	9.36		10.0	96	58 --- 137	3	20

Lab Control Spike Water

Analytical Run #:	266246	Analysis Date:	10/17/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1251005	Analysis Time:	08:32	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	10.1	ug/L			10.0	101	74 --- 131		20
1,1,2,2-Tetrachloroethane	9.90	ug/L			10.0	99	71 --- 121		20
1,1,2-Trichloroethane	9.67	ug/L			10.0	97	80 --- 119		20
1,1-Dichloroethane	9.62	ug/L			10.0	96	77 --- 125		20
1,1-Dichloroethene	10.1	ug/L			10.0	101	71 --- 131		20
1,2 Dichloroethane-d4	103	% Recovery			100	103	81 --- 118		
1,2,3-Trichlorobenzene	9.72	ug/L			10.0	97	69 --- 129		20
1,2,4-Trichlorobenzene	9.59	ug/L			10.0	96	69 --- 130		20
1,2-Dibromo-3-chloropropane	8.77	ug/L			10.0	88	62 --- 128		20
1,2-Dibromoethane	9.59	ug/L			10.0	96	77 --- 121		20
1,2-Dichlorobenzene	9.92	ug/L			10.0	99	80 --- 119		20
1,2-Dichloroethane	9.80	ug/L			10.0	98	73 --- 128		20
1,2-Dichloropropane	9.41	ug/L			10.0	94	78 --- 122		20
1,3-Dichlorobenzene	10.0	ug/L			10.0	100	80 --- 119		20
1,4-Dichlorobenzene	10.2	ug/L			10.0	102	79 --- 118		20
112Trichloro122trifluoroethane	21.0	ug/L			20.0	105	70 --- 136		20
2-Butanone	94.2	ug/L			100	94	56 --- 143		20
2-Hexanone	99.5	ug/L			100	100	57 --- 139		20
4-Methyl-2-pentanone	90.6	ug/L			100	91	67 --- 130		20
Acetone	99.8	ug/L			100	100	39 --- 160		20
Benzene	9.75	ug/L			10.0	98	79 --- 120		20
Bromochloromethane	9.06	ug/L			10.0	91	78 --- 123		20
Bromodichloromethane	9.66	ug/L			10.0	97	79 --- 125		20
Bromofluorobenzene	105	% Recovery			100	105	85 --- 114		
Bromoform	9.64	ug/L			10.0	96	66 --- 130		20
Bromomethane	5.34	ug/L			10.0	53	53 --- 141		20
Carbon disulfide	20.9	ug/L			20.0	104	64 --- 133		20
Carbon tetrachloride	10.3	ug/L			10.0	103	72 --- 136		20
Chlorobenzene	9.89	ug/L			10.0	99	82 --- 118		20
Chloroethane	9.43	ug/L			10.0	94	60 --- 138		20
Chloroform	9.38	ug/L			10.0	94	79 --- 124		20
Chloromethane	8.36	ug/L			10.0	84	50 --- 139		20
cis-1,2-Dichloroethene	9.02	ug/L			10.0	90	78 --- 123		20
cis-1,3-Dichloropropene	9.49	ug/L			10.0	95	75 --- 124		20
Cyclohexane	11.3	ug/L			10.0	113	71 --- 130		20
d8-Toluene	98.0	% Recovery			100	98.0	89 --- 112		
Dibromochloromethane	10.2	ug/L			10.0	102	74 --- 126		20
Dibromofluoromethane	99.0	% Recovery			100	99.0	80 --- 119		
Dichlorodifluoromethane	10.2	ug/L			10.0	102	32 --- 152		20
Ethylbenzene	10.6	ug/L			10.0	106	79 --- 121		20
Isopropylbenzene	10.8	ug/L			10.0	108	72 --- 131		20
m & p-Xylene	21.1	ug/L			20.0	106	80 --- 121		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Lab Control Spike Water

Analytical Run #:	266246	Analysis Date:	10/17/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1251005	Analysis Time:	08:32	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl acetate	8.59	ug/L			10.0	86	56 --- 136		20
Methyl tert-butyl ether	9.37	ug/L			10.0	94	71 --- 124		20
Methylcyclohexane	9.91	ug/L			10.0	99	72 --- 132		20
Methylene chloride	9.06	ug/L			10.0	91	74 --- 124		20
o-Xylene	10.0	ug/L			10.0	100	78 --- 122		20
Styrene	10.1	ug/L			10.0	101	78 --- 123		20
Tetrachloroethene	9.49	ug/L			10.0	95	74 --- 129		20
Toluene	9.68	ug/L			10.0	97	80 --- 121		20
trans-1,2-Dichloroethene	9.57	ug/L			10.0	96	75 --- 124		20
trans-1,3-Dichloropropene	9.94	ug/L			10.0	99	73 --- 127		20
Trichloroethene	9.48	ug/L			10.0	95	79 --- 123		20
Trichlorofluoromethane	10.8	ug/L			10.0	108	65 --- 141		20
Vinyl chloride	9.36	ug/L			10.0	94	58 --- 137		20

Method Blank Water

Analytical Run #:	266246	Analysis Date:	10/17/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1251007	Analysis Time:	09:34	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.60	ug/L		U	0			0.60	
1,1,2,2-Tetrachloroethane	0.55	ug/L		U	0			0.55	
1,1,2-Trichloroethane	0.55	ug/L		U	0			0.55	
1,1-Dichloroethane	0.55	ug/L		U	0			0.55	
1,1-Dichloroethene	1.0	ug/L		U	0			1.0	
1,2 Dichloroethane-d4	101	% Recovery			100	101	70 ---	120	
1,2,3-Trichlorobenzene	1.0	ug/L		U	0			1.0	
1,2,4-Trichlorobenzene	1.0	ug/L		U	0			1.0	
1,2-Dibromo-3-chloropropane	1.0	ug/L		U	0			1.0	
1,2-Dibromoethane	0.55	ug/L		U	0			0.55	
1,2-Dichlorobenzene	0.55	ug/L		U	0			0.55	
1,2-Dichloroethane	1.05	ug/L		U	0			1.05	
1,2-Dichloropropane	0.60	ug/L		U	0			0.60	
1,3-Dichlorobenzene	0.55	ug/L		U	0			0.55	
1,4-Dichlorobenzene	0.55	ug/L		U	0			0.55	
112Trichloro122trifluoroethane	2.25	ug/L		U	0			2.25	
2-Butanone	5.5	ug/L		U	0			5.5	
2-Hexanone	5.5	ug/L		U	0			5.5	
4-Methyl-2-pentanone	6.0	ug/L		U	0			6.0	
Acetone	10	ug/L		U	0			10	
Benzene	1.0	ug/L		U	0			1.0	
Bromochloromethane	0.55	ug/L		U	0			0.55	
Bromodichloromethane	0.25	ug/L		U	0			0.25	
Bromofluorobenzene	105	% Recovery			100	105	75 ---	120	
Bromoform	1.0	ug/L		U	0			1.0	
Bromomethane	1.0	ug/L		U	0			1.0	
Carbon disulfide	2.0	ug/L		U	0			2.0	
Carbon tetrachloride	0.60	ug/L		U	0			0.60	
Chlorobenzene	0.60	ug/L		U	0			0.60	
Chloroethane	1.0	ug/L		U	0			1.0	
Chloroform	0.70	ug/L		U	0			0.70	
Chloromethane	1.0	ug/L		U	0			1.0	
cis-1,2-Dichloroethene	0.65	ug/L		U	0			0.65	
cis-1,3-Dichloropropene	0.55	ug/L		U	0			0.55	
Cyclohexane	1.1	ug/L		U	0			1.1	
d8-Toluene	97.0	% Recovery			100	97.0	85 ---	120	
Dibromochloromethane	0.55	ug/L		U	0			0.55	
Dibromofluoromethane	99.0	% Recovery			100	99.0	85 ---	115	
Dichlorodifluoromethane	1.05	ug/L		U	0			1.05	
Ethylbenzene	0.65	ug/L		U	0			0.65	
Isopropylbenzene	0.60	ug/L		U	0			0.60	
m & p-Xylene	1.15	ug/L		U	0			1.15	

Method Blank Water

Analytical Run #:	266246	Analysis Date:	10/17/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1251007	Analysis Time:	09:34	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl acetate	1.0	ug/L		U	0		1.0		
Methyl tert-butyl ether	0.55	ug/L		U	0		0.55		
Methylcyclohexane	1.2	ug/L		U	0		1.2		
Methylene chloride	2.05	ug/L		U	0		2.05		
o-Xylene	1.1	ug/L		U	0		1.1		
Styrene	0.55	ug/L		U	0		0.55		
Tetrachloroethene	1.0	ug/L		U	0		1.0		
Toluene	0.55	ug/L		U	0		0.55		
trans-1,2-Dichloroethene	0.55	ug/L		U	0		0.55		
trans-1,3-Dichloropropene	1.05	ug/L		U	0		1.05		
Trichloroethene	0.60	ug/L		U	0		0.60		
Trichlorofluoromethane	1.0	ug/L		U	0		1.0		
Vinyl chloride	0.25	ug/L		U	0		0.25		

Lab Control Spike Duplicate Soil

Analytical Run #:	266279	Analysis Date:	10/18/2022	Prep Batch #:	127289	Matrix:	SOLID
CTLab #:	1250133	Analysis Time:	10:54	Prep Date/Time:	10/18/2022 07:45	Method:	SW8260C
Parent Sample #:	1250132	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	511	ug/kg	501		500	102	73 --- 130	2	20
1,1,2,2-Tetrachloroethane	466	ug/kg	447		500	93	70 --- 124	4	20
1,1,2-Trichloroethane	503	ug/kg	471		500	101	78 --- 121	7	20
1,1-Dichloroethane	488	ug/kg	480		500	98	76 --- 125	2	20
1,1-Dichloroethene	503	ug/kg	514		500	101	70 --- 131	2	20
1,2 Dichloroethane-d4	101	% Recovery			100	101	71 --- 136	0	
1,2,3-Trichlorobenzene	517	ug/kg	484		500	103	66 --- 130	7	20
1,2,4-Trichlorobenzene	531	ug/kg	481		500	106	67 --- 129	10	20
1,2-Dibromo-3-chloropropane	454	ug/kg	461		500	91	61 --- 132	2	20
1,2-Dibromoethane	492	ug/kg	476		500	98	78 --- 122	3	20
1,2-Dichlorobenzene	484	ug/kg	456		500	97	78 --- 121	6	20
1,2-Dichloroethane	508	ug/kg	474		500	102	73 --- 128	7	20
1,2-Dichloropropane	489	ug/kg	459		500	98	76 --- 123	6	20
1,3-Dichlorobenzene	474	ug/kg	463		500	95	77 --- 121	2	20
1,4-Dichlorobenzene	467	ug/kg	470		500	93	75 --- 120	1	20
112Trichloro122trifluoroethane	1110	ug/kg	1080		1000	111	66 --- 136	3	20
2-Butanone	5230	ug/kg	4510		5000	105	51 --- 148	15	20
2-Hexanone	5220	ug/kg	4790		5000	104	53 --- 145	9	20
4-Methyl-2-pentanone	5290	ug/kg	4810		5000	106	65 --- 135	10	20
Acetone	5020	ug/kg	4730		5000	100	36 --- 164	6	20
Benzene	489	ug/kg	479		500	98	77 --- 121	2	20
Bromochloromethane	491	ug/kg	462		500	98	78 --- 125	6	20
Bromodichloromethane	497	ug/kg	474		500	99	75 --- 127	5	20
Bromofluorobenzene	99.0	% Recovery			100	99.0	79 --- 119	0	
Bromoform	472	ug/kg	474		500	94	67 --- 132	0	20
Bromomethane	713	ug/kg	701		500	143	53 --- 143	2	20
Carbon disulfide	984	ug/kg	1020		1000	98	63 --- 132	4	20
Carbon tetrachloride	519	ug/kg	520		500	104	70 --- 135	0	20
Chlorobenzene	490	ug/kg	474		500	98	79 --- 120	3	20
Chloroethane	539	ug/kg	504		500	108	59 --- 139	7	20
Chloroform	476	ug/kg	474		500	95	78 --- 123	0	20
Chloromethane	461	ug/kg	449		500	92	50 --- 136	3	20
cis-1,2-Dichloroethene	482	ug/kg	477		500	96	77 --- 123	1	20
cis-1,3-Dichloropropene	491	ug/kg	481		500	98	74 --- 126	2	20
Cyclohexane	541	ug/kg	533		500	108	67 --- 131	1	20
d8-Toluene	103	% Recovery			100	103	85 --- 116	0	
Dibromochloromethane	493	ug/kg	473		500	99	74 --- 126	4	20
Dibromofluoromethane	101	% Recovery			100	101	78 --- 119	0	
Dichlorodifluoromethane	557	ug/kg	546		500	111	29 --- 149	2	20
Ethylbenzene	492	ug/kg	484		500	98	76 --- 122	2	20
Isopropylbenzene	508	ug/kg	499		500	102	68 --- 134	2	20
m & p-Xylene	1010	ug/kg	962		1000	101	77 --- 124	5	20

Lab Control Spike Duplicate Soil

Analytical Run #:	266279	Analysis Date:	10/18/2022	Prep Batch #:	127289	Matrix:	SOLID
CTLab #:	1250133	Analysis Time:	10:54	Prep Date/Time:	10/18/2022 07:45	Method:	SW8260C
Parent Sample #:	1250132	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl acetate	1560	ug/kg	1030		500	312	53 --- 144	41	20
Methyl tert-butyl ether	498	ug/kg	476		500	100	73 --- 125	5	20
Methylcyclohexane	563	ug/kg	550		500	113	66 --- 133	2	20
Methylene chloride	457	ug/kg	444		500	91	70 --- 128	3	20
Naphthalene	515	ug/kg	454		500	103	62 --- 129	13	20
o-Xylene	511	ug/kg	479		500	102	77 --- 123	6	20
Styrene	508	ug/kg	480		500	102	76 --- 124	6	20
Tetrachloroethene	513	ug/kg	504		500	103	73 --- 128	2	20
Toluene	493	ug/kg	482		500	99	77 --- 121	2	20
trans-1,2-Dichloroethene	502	ug/kg	483		500	100	74 --- 125	4	20
trans-1,3-Dichloropropene	487	ug/kg	471		500	97	71 --- 130	3	20
Trichloroethene	521	ug/kg	504		500	104	77 --- 123	3	20
Trichlorofluoromethane	543	ug/kg	541		500	109	62 --- 140	0	20
Vinyl chloride	555	ug/kg	525		500	111	56 --- 135	6	20

Lab Control Spike Soil

Analytical Run #:	266279	Analysis Date:	10/18/2022	Prep Batch #:	127289	Matrix:	SOLID
CTLab #:	1250132	Analysis Time:	08:34	Prep Date/Time:	10/18/2022 07:45	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	501	ug/kg			500	100	73 --- 130		20
1,1,2,2-Tetrachloroethane	447	ug/kg			500	89	70 --- 124		20
1,1,2-Trichloroethane	471	ug/kg			500	94	78 --- 121		20
1,1-Dichloroethane	480	ug/kg			500	96	76 --- 125		20
1,1-Dichloroethene	514	ug/kg			500	103	70 --- 131		20
1,2 Dichloroethane-d4	103	% Recovery			100	103	71 --- 136		
1,2,3-Trichlorobenzene	484	ug/kg			500	97	66 --- 130		20
1,2,4-Trichlorobenzene	481	ug/kg			500	96	67 --- 129		20
1,2-Dibromo-3-chloropropane	461	ug/kg			500	92	61 --- 132		20
1,2-Dibromoethane	476	ug/kg			500	95	78 --- 122		20
1,2-Dichlorobenzene	456	ug/kg			500	91	78 --- 121		20
1,2-Dichloroethane	474	ug/kg			500	95	73 --- 128		20
1,2-Dichloropropane	459	ug/kg			500	92	76 --- 123		20
1,3-Dichlorobenzene	463	ug/kg			500	93	77 --- 121		20
1,4-Dichlorobenzene	470	ug/kg			500	94	75 --- 120		20
112Trichloro122trifluoroethane	1080	ug/kg			1000	108	66 --- 136		20
2-Butanone	4510	ug/kg			5000	90	51 --- 148		20
2-Hexanone	4790	ug/kg			5000	96	53 --- 145		20
4-Methyl-2-pentanone	4810	ug/kg			5000	96	65 --- 135		20
Acetone	4730	ug/kg			5000	95	36 --- 164		20
Benzene	479	ug/kg			500	96	77 --- 121		20
Bromochloromethane	462	ug/kg			500	92	78 --- 125		20
Bromodichloromethane	474	ug/kg			500	95	75 --- 127		20
Bromofluorobenzene	99.0	% Recovery			100	99.0	79 --- 119		
Bromoform	474	ug/kg			500	95	67 --- 132		20
Bromomethane	701	ug/kg			500	140	53 --- 143		20
Carbon disulfide	1020	ug/kg			1000	102	63 --- 132		20
Carbon tetrachloride	520	ug/kg			500	104	70 --- 135		20
Chlorobenzene	474	ug/kg			500	95	79 --- 120		20
Chloroethane	504	ug/kg			500	101	59 --- 139		20
Chloroform	474	ug/kg			500	95	78 --- 123		20
Chloromethane	449	ug/kg			500	90	50 --- 136		20
cis-1,2-Dichloroethene	477	ug/kg			500	95	77 --- 123		20
cis-1,3-Dichloropropene	481	ug/kg			500	96	74 --- 126		20
Cyclohexane	533	ug/kg			500	107	67 --- 131		20
d8-Toluene	102	% Recovery			100	102	85 --- 116		
Dibromochloromethane	473	ug/kg			500	95	74 --- 126		20
Dibromofluoromethane	102	% Recovery			100	102	78 --- 119		
Dichlorodifluoromethane	546	ug/kg			500	109	29 --- 149		20
Ethylbenzene	484	ug/kg			500	97	76 --- 122		20
Isopropylbenzene	499	ug/kg			500	100	68 --- 134		20
m & p-Xylene	962	ug/kg			1000	96	77 --- 124		20

Lab Control Spike Soil

Analytical Run #:	266279	Analysis Date:	10/18/2022	Prep Batch #:	127289	Matrix:	SOLID
CTLab #:	1250132	Analysis Time:	08:34	Prep Date/Time:	10/18/2022 07:45	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl acetate	1030	ug/kg			500	206	53 --- 144		20
Methyl tert-butyl ether	476	ug/kg			500	95	73 --- 125		20
Methylcyclohexane	550	ug/kg			500	110	66 --- 133		20
Methylene chloride	444	ug/kg			500	89	70 --- 128		20
Naphthalene	454	ug/kg			500	91	62 --- 129		20
o-Xylene	479	ug/kg			500	96	77 --- 123		20
Styrene	480	ug/kg			500	96	76 --- 124		20
Tetrachloroethene	504	ug/kg			500	101	73 --- 128		20
Toluene	482	ug/kg			500	96	77 --- 121		20
trans-1,2-Dichloroethene	483	ug/kg			500	97	74 --- 125		20
trans-1,3-Dichloropropene	471	ug/kg			500	94	71 --- 130		20
Trichloroethene	504	ug/kg			500	101	77 --- 123		20
Trichlorofluoromethane	541	ug/kg			500	108	62 --- 140		20
Vinyl chloride	525	ug/kg			500	105	56 --- 135		20

Method Blank Soil

Analytical Run #:	266279	Analysis Date:	10/18/2022	Prep Batch #:	127289	Matrix:	SOLID
CTLab #:	1249585	Analysis Time:	09:31	Prep Date/Time:	10/18/2022 07:45	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	100	ug/kg		U	0			100	
1,1,2,2-Tetrachloroethane	50	ug/kg		U	0			50	
1,1,2-Trichloroethane	100	ug/kg		U	0			100	
1,1-Dichloroethane	100	ug/kg		U	0			100	
1,1-Dichloroethene	50	ug/kg		U	0			50	
1,2 Dichloroethane-d4	102	% Recovery			100	102	71 ---	136	
1,2,3-Trichlorobenzene	50	ug/kg		U	0			50	
1,2,4-Trichlorobenzene	50	ug/kg		U	0			50	
1,2-Dibromo-3-chloropropane	50	ug/kg		U	0			50	
1,2-Dibromoethane	50	ug/kg		U	0			50	
1,2-Dichlorobenzene	50	ug/kg		U	0			50	
1,2-Dichloroethane	50	ug/kg		U	0			50	
1,2-Dichloropropane	100	ug/kg		U	0			100	
1,3-Dichlorobenzene	50	ug/kg		U	0			50	
1,4-Dichlorobenzene	50	ug/kg		U	0			50	
112Trichloro122trifluoroethane	200	ug/kg		U	0			200	
2-Butanone	1000	ug/kg		U	0			1000	
2-Hexanone	500	ug/kg		U	0			500	
4-Methyl-2-pentanone	1000	ug/kg		U	0			1000	
Acetone	500	ug/kg		U	0			500	
Benzene	100	ug/kg		U	0			100	
Bromochloromethane	100	ug/kg		U	0			100	
Bromodichloromethane	50	ug/kg		U	0			50	
Bromofluorobenzene	102	% Recovery			100	102	79 ---	119	
Bromoform	50	ug/kg		U	0			50	
Bromomethane	200	ug/kg		U	0			200	
Carbon disulfide	200	ug/kg		U	0			200	
Carbon tetrachloride	100	ug/kg		U	0			100	
Chlorobenzene	50	ug/kg		U	0			50	
Chloroethane	200	ug/kg		U	0			200	
Chloroform	100	ug/kg		U	0			100	
Chloromethane	100	ug/kg		U	0			100	
cis-1,2-Dichloroethene	100	ug/kg		U	0			100	
cis-1,3-Dichloropropene	100	ug/kg		U	0			100	
Cyclohexane	100	ug/kg		U	0			100	
d8-Toluene	100	% Recovery			100	100	85 ---	116	
Dibromochloromethane	50	ug/kg		U	0			50	
Dibromofluoromethane	97.0	% Recovery			100	97.0	78 ---	119	
Dichlorodifluoromethane	100	ug/kg		U	0			100	
Ethylbenzene	50	ug/kg		U	0			50	
Isopropylbenzene	50	ug/kg		U	0			50	
m & p-Xylene	100	ug/kg		U	0			100	

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	266279	Analysis Date:	10/18/2022	Prep Batch #:	127289	Matrix:	SOLID
CTLab #:	1249585	Analysis Time:	09:31	Prep Date/Time:	10/18/2022 07:45	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl acetate	100	ug/kg		U	0		100		
Methyl tert-butyl ether	50	ug/kg		U	0		50		
Methylcyclohexane	100	ug/kg		U	0		100		
Methylene chloride	100	ug/kg		U	0		100		
Naphthalene	50	ug/kg		U	0		50		
o-Xylene	50	ug/kg		U	0		50		
Styrene	50	ug/kg		U	0		50		
Tetrachloroethene	100	ug/kg		U	0		100		
Toluene	100	ug/kg		U	0		100		
trans-1,2-Dichloroethene	100	ug/kg		U	0		100		
trans-1,3-Dichloropropene	100	ug/kg		U	0		100		
Trichloroethene	100	ug/kg		U	0		100		
Trichlorofluoromethane	100	ug/kg		U	0		100		
Vinyl chloride	100	ug/kg		U	0		100		

Lab Control Spike Soil

Analytical Run #:	266326	Analysis Date:	10/18/2022	Prep Batch #:	127274	Matrix:	SOLID
CTLab #:	1248696	Analysis Time:	23:47	Prep Date/Time:	10/14/2022 11:00	Method:	SW8081B
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
4,4'-DDD	38.1	ug/kg			40.0	95	56 --- 139		
4,4'-DDE	37.7	ug/kg			40.0	94	56 --- 134		
4,4'-DDT	37.9	ug/kg			40.0	95	50 --- 141		
Aldrin	37.1	ug/kg			40.0	93	45 --- 136		
alpha-BHC	36.0	ug/kg			40.0	90	45 --- 137		
alpha-Chlordane	36.9	ug/kg			40.0	92	54 --- 133		
beta-BHC	36.3	ug/kg			40.0	91	50 --- 136		
Chlordane (Technical)	237	ug/kg			250	95	43 --- 149		
delta-BHC	36.7	ug/kg			40.0	92	47 --- 139		
Dieldrin	37.1	ug/kg			40.0	93	56 --- 136		
Endosulfan I	36.2	ug/kg			40.0	90	53 --- 132		
Endosulfan II	37.6	ug/kg			40.0	94	53 --- 134		
Endosulfan sulfate	37.0	ug/kg			40.0	92	55 --- 136		
Endrin	37.8	ug/kg			40.0	94	57 --- 140		
Endrin aldehyde	36.0	ug/kg			40.0	90	35 --- 137		
Endrin ketone	36.6	ug/kg			40.0	92	55 --- 136		
gamma-Chlordane	37.1	ug/kg			40.0	93	53 --- 135		
Heptachlor	36.2	ug/kg			40.0	90	47 --- 136		
Heptachlor epoxide	36.5	ug/kg			40.0	91	52 --- 136		
Lindane	36.6	ug/kg			40.0	92	49 --- 135		
Methoxychlor	39.0	ug/kg			40.0	98	52 --- 143		
SURR:2,4,5,6-CL4-m-xylene	98.8	% Recovery			100	98.8	42 --- 129		
SURR:Decachlorobiphenyl	103	% Recovery		Z	100	103	40 --- 138		
Toxaphene	236	ug/kg			250	94	33 --- 141		

Method Blank Soil

Analytical Run #:	266326	Analysis Date:	10/18/2022	Prep Batch #:	127274	Matrix:	SOLID
CTLab #:	1248695	Analysis Time:	23:31	Prep Date/Time:	10/14/2022 11:00	Method:	SW8081B
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
4,4'-DDD	2.0	ug/kg		U	0			2.0	
4,4'-DDE	2.0	ug/kg		U	0			2.0	
4,4'-DDT	3.0	ug/kg		U	0			3.0	
Aldrin	3.0	ug/kg		U	0			3.0	
alpha-BHC	3.0	ug/kg		U	0			3.0	
alpha-Chlordane	2.0	ug/kg		U	0			2.0	
beta-BHC	2.0	ug/kg		U	0			2.0	
Chlordane (Technical)	30	ug/kg		U	0			30	
delta-BHC	2.0	ug/kg		U	0			2.0	
Dieldrin	2.0	ug/kg		U	0			2.0	
Endosulfan I	3.0	ug/kg		U	0			3.0	
Endosulfan II	3.0	ug/kg		U	0			3.0	
Endosulfan sulfate	3.0	ug/kg		U	0			3.0	
Endrin	3.0	ug/kg		U	0			3.0	
Endrin aldehyde	3.0	ug/kg		U	0			3.0	
Endrin ketone	2.0	ug/kg		U	0			2.0	
gamma-Chlordane	2.0	ug/kg		U	0			2.0	
Heptachlor	3.0	ug/kg		U	0			3.0	
Heptachlor epoxide	2.0	ug/kg		U	0			2.0	
Lindane	3.0	ug/kg		U	0			3.0	
Methoxychlor	3.0	ug/kg		U	0			3.0	
SURR:2,4,5,6-CL4-m-xylene	95.7	% Recovery			100	95.7	42 ---	129	
SURR:Decachlorobiphenyl	96.9	% Recovery		Z	100	96.9	40 ---	138	
Toxaphene	30	ug/kg		U				30	

Matrix Spike Duplicate Soil

Analytical Run #:	266326	Analysis Date:	10/19/2022	Prep Batch #:	127274	Matrix:	SOIL
CTLab #:	1248699	Analysis Time:	01:58	Prep Date/Time:	10/14/2022 11:00	Method:	SW8081B
Parent Sample #:	1248698	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
4,4'-DDD	0	ug/kg	BDL		100	0	56 --- 139	0	30
4,4'-DDE	522	ug/kg	BDL		47.9	1090	56 --- 134	11	30
4,4'-DDT	0	ug/kg	BDL		100	0	50 --- 141	0	30
Aldrin	0	ug/kg	BDL		100	0	45 --- 136	0	30
alpha-BHC	69.4	ug/kg	BDL		47.9	145	45 --- 137	15	30
alpha-Chlordane	0	ug/kg	BDL		100	0	54 --- 133	0	30
beta-BHC	199	ug/kg	BDL		47.9	415	50 --- 136	28	30
Chlordane (Technical)	239	ug/kg	BDL	U	2990	0	43 --- 149	200	30
delta-BHC	0	ug/kg	BDL		100	0	47 --- 139	0	30
Dieldrin	335	ug/kg	320		47.9	31	56 --- 136	16	30
Endosulfan I	197	ug/kg	187		47.9	21	53 --- 132	14	30
Endosulfan II	0	ug/kg	BDL		100	0	53 --- 134	0	30
Endosulfan sulfate	35.9	ug/kg	BDL		47.9	75	55 --- 136	11	30
Endrin	110	ug/kg	BDL		47.9	230	57 --- 140	15	30
Endrin aldehyde	358	ug/kg	381		47.9	0	35 --- 137	17	30
Endrin ketone	85.0	ug/kg	BDL		47.9	177	55 --- 136	15	30
gamma-Chlordane	39.5	ug/kg	BDL		47.9	82	53 --- 135	200	30
Heptachlor	142	ug/kg	BDL		47.9	296	47 --- 136	6	30
Heptachlor epoxide	139	ug/kg	BDL		47.9	290	52 --- 136	14	30
Lindane	0	ug/kg	BDL		100	0	49 --- 135	0	30
Methoxychlor	0	ug/kg	BDL		100	0	52 --- 143	0	30
SURR:2,4,5,6-CL4-m-xylene	321	% Recovery		S	100	321	42 --- 129	0	
SURR:Decachlorobiphenyl	0	% Recovery		S,Z	100	0	40 --- 138	0	
Toxaphene	239	ug/kg	BDL	U	2990	0	33 --- 141	200	30

Matrix Spike Soil

Analytical Run #:	266326	Analysis Date:	10/19/2022	Prep Batch #:	127274	Matrix:	SOIL
CTLab #:	1248698	Analysis Time:	01:41	Prep Date/Time:	10/14/2022 11:00	Method:	SW8081B
Parent Sample #:	1248293	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
4,4'-DDD	0	ug/kg	BDL		100	0	56 --- 139		30
4,4'-DDE	468	ug/kg	BDL		48.0	975	56 --- 134		30
4,4'-DDT	0	ug/kg	BDL		100	0	50 --- 141		30
Aldrin	0	ug/kg	BDL		100	0	45 --- 136		30
alpha-BHC	60.0	ug/kg	BDL		48.0	125	45 --- 137		30
alpha-Chlordane	0	ug/kg	BDL		100	0	54 --- 133		30
beta-BHC	150	ug/kg	BDL		48.0	312	50 --- 136		30
Chlordane (Technical)	0	ug/kg	BDL		100	0	43 --- 149		30
delta-BHC	0	ug/kg	BDL		100	0	47 --- 139		30
Dieldrin	287	ug/kg	320		48.0	0	56 --- 136		30
Endosulfan I	172	ug/kg	187		48.0	0	53 --- 132		30
Endosulfan II	0	ug/kg	BDL		100	0	53 --- 134		30
Endosulfan sulfate	32.4	ug/kg	BDL		48.0	68	55 --- 136		30
Endrin	94.8	ug/kg	BDL		48.0	198	57 --- 140		30
Endrin aldehyde	304	ug/kg	381		48.0	0	35 --- 137		30
Endrin ketone	73.2	ug/kg	BDL		48.0	152	55 --- 136		30
gamma-Chlordane	0	ug/kg	BDL		100	0	53 --- 135		30
Heptachlor	134	ug/kg	BDL		48.0	279	47 --- 136		30
Heptachlor epoxide	121	ug/kg	BDL		48.0	252	52 --- 136		30
Lindane	0	ug/kg	BDL		100	0	49 --- 135		30
Methoxychlor	0	ug/kg	BDL		100	0	52 --- 143		30
SURR:2,4,5,6-CL4-m-xylene	0	% Recovery		S	100	0	42 --- 129		
SURR:Decachlorobiphenyl	85.8	% Recovery		Z	100	85.8	40 --- 138		
Toxaphene	0	ug/kg	BDL		100	0	33 --- 141		30

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	266327	Analysis Date:	10/19/2022	Prep Batch #:	127275	Matrix:	SOLID
CTLab #:	1248703	Analysis Time:	14:17	Prep Date/Time:	10/14/2022 11:00	Method:	SW8082
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	543	ug/kg			500	109	47 --- 134		30
Aroclor-1221	0				0.5	0	70 --- 130		30
Aroclor-1232	0				0.5	0	70 --- 130		30
Aroclor-1242	0				0.5	0	70 --- 130		30
Aroclor-1248	0				0.5	0	70 --- 130		30
Aroclor-1254	0				0.5	0	67 --- 135		30
Aroclor-1260	543	ug/kg			500	109	53 --- 140		30
Aroclor-1262	0				0.5	0	70 --- 130		30
Aroclor-1268	0				0.5	0	70 --- 130		30
Surr: 2,4,5,6-TCMX	120	% Recovery			100	120	53 --- 147		
Surr: DCBP	118	% Recovery			100	118	65 --- 141		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 172899

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	266327	Analysis Date:	10/19/2022	Prep Batch #:	127275	Matrix:	SOLID
CTLab #:	1248702	Analysis Time:	13:55	Prep Date/Time:	10/14/2022 11:00	Method:	SW8082
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	30	ug/kg		U	0			30	
Aroclor-1221	40	ug/kg		U	0			40	
Aroclor-1232	30	ug/kg		U	0			30	
Aroclor-1242	30	ug/kg		U	0			30	
Aroclor-1248	30	ug/kg		U	0			30	
Aroclor-1254	30	ug/kg		U	0			30	
Aroclor-1260	30	ug/kg		U	0			30	
Aroclor-1262	30	ug/kg		U	0			30	
Aroclor-1268	30	ug/kg		U	0			30	
Surr: 2,4,5,6-TCMX	118	% Recovery			100	118	53 ---	147	
Surr: DCBP	111	% Recovery			100	111	65 ---	141	

Matrix Spike Duplicate Soil

Analytical Run #:	266327	Analysis Date:	10/19/2022	Prep Batch #:	127275	Matrix:	SOIL
CTLab #:	1248706	Analysis Time:	17:55	Prep Date/Time:	10/14/2022 11:00	Method:	SW8082
Parent Sample #:	1248705	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	26600	ug/kg	BDL	D	587	4532	47 --- 134	7	30
Aroclor-1221	235		BDL	U	11.7	0	70 --- 130	0	30
Aroclor-1232	235		BDL	U	11.7	0	70 --- 130	0	30
Aroclor-1242	235		BDL	U	11.7	0	70 --- 130	0	30
Aroclor-1248	235		BDL	U	11.7	0	70 --- 130	0	30
Aroclor-1254	235		BDL	U	11.7	0	67 --- 135	0	30
Aroclor-1260	10200	ug/kg	9990		587	36	53 --- 140	2	30
Aroclor-1262	235		BDL	U	11.7	0	70 --- 130	0	30
Aroclor-1268	235		BDL	U	11.7	0	70 --- 130	0	30
Surr: 2,4,5,6-TCMX	119	% Recovery			100	119	54 --- 135	0	
Surr: DCBP	103	% Recovery			100	103	54 --- 141	0	

Matrix Spike Soil

Analytical Run #:	266327	Analysis Date:	10/19/2022	Prep Batch #:	127275	Matrix:	SOIL
CTLab #:	1248705	Analysis Time:	17:33	Prep Date/Time:	10/14/2022 11:00	Method:	SW8082
Parent Sample #:	1248293	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	29300	ug/kg	BDL	D	600	4883	47 --- 134		30
Aroclor-1221	432		BDL	U	12.0	0	70 --- 130		30
Aroclor-1232	432		BDL	U	12.0	0	70 --- 130		30
Aroclor-1242	432		BDL	U	12.0	0	70 --- 130		30
Aroclor-1248	432		50300	U	12.0	0	70 --- 130		30
Aroclor-1254	432		29100	U	12.0	0	67 --- 135		30
Aroclor-1260	10700	ug/kg	9990		600	118	53 --- 140		30
Aroclor-1262	432		BDL	U	12.0	0	70 --- 130		30
Aroclor-1268	432		BDL	U	12.0	0	70 --- 130		30
Surr: 2,4,5,6-TCMX	134	% Recovery			100	134	54 --- 135		
Surr: DCBP	123	% Recovery			100	123	54 --- 141		

Lab Control Spike Soil

Analytical Run #:	266333	Analysis Date:	10/19/2022	Prep Batch #:	127272	Matrix:	SOLID
CTLab #:	1248689	Analysis Time:	11:17	Prep Date/Time:	10/14/2022 11:00	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	1600	ug/kg			2000	80	40 --- 117		20
1,2,4,5-Tetrachlorobenzene	1620	ug/kg			2000	81	47 --- 106		20
1,4-Dichlorobenzene	1410	ug/kg			2000	70	31 --- 115		20
2,4,5-Trichlorophenol	1750	ug/kg			2000	88	41 --- 124		20
2,4,6-Trichlorophenol	1550	ug/kg			2000	78	39 --- 126		20
2,4-Dichlorophenol	1550	ug/kg			2000	78	40 --- 122		20
2,4-Dimethylphenol	303	ug/kg		Q	2000	15	30 --- 127		20
2,4-Dinitrophenol	1640	ug/kg			2000	82	16 --- 102		20
2,4-Dinitrotoluene	1840	ug/kg			2000	92	48 --- 126		20
2,6-Dinitrotoluene	1690	ug/kg			2000	84	46 --- 124		20
2-Chloronaphthalene	1550	ug/kg			2000	78	41 --- 114		20
2-Chlorophenol	1450	ug/kg			2000	72	34 --- 121		20
2-Methylnaphthalene	1520	ug/kg			2000	76	38 --- 122		20
2-Methylphenol	1150	ug/kg			2000	58	32 --- 122		20
2-Nitroaniline	1610	ug/kg			2000	80	44 --- 127		20
2-Nitrophenol	1550	ug/kg			2000	78	36 --- 123		20
3 & 4-Methylphenol	1290	ug/kg			2000	64	34 --- 119		20
3,3'-Dichlorobenzidine	1290	ug/kg			2000	64	22 --- 121		20
3-Nitroaniline	1180	ug/kg			2000	59	33 --- 119		20
4,6-Dinitro-2-methylphenol	1840	ug/kg			2000	92	29 --- 132		20
4-Bromophenyl-phenyl ether	1750	ug/kg			2000	88	46 --- 124		20
4-Chloro-3-methylphenol	1630	ug/kg			2000	82	45 --- 122		20
4-Chloroaniline	609	ug/kg			2000	30	17 --- 106		20
4-Chlorophenyl-phenyl ether	1740	ug/kg			2000	87	45 --- 121		20
4-Nitroaniline	1420	ug/kg			2000	71	44 --- 125		20
4-Nitrophenol	1450	ug/kg			2000	72	30 --- 132		20
Acenaphthene	1550	ug/kg			2000	78	40 --- 123		20
Acenaphthylene	1480	ug/kg			2000	74	32 --- 132		20
Acetophenone	1530	ug/kg			2000	76	33 --- 115		20
Anthracene	1770	ug/kg			2000	88	47 --- 123		20
Atrazine	1940	ug/kg			2000	97	47 --- 127		20
Benzaldehyde	1530	ug/kg			2000	76	6 --- 185		20
Benzo(a)anthracene	1760	ug/kg			2000	88	49 --- 126		20
Benzo(a)pyrene	1640	ug/kg			2000	82	54 --- 129		20
Benzo(b)fluoranthene	1750	ug/kg			2000	88	45 --- 132		20
Benzo(g,h,i)perylene	1930	ug/kg			2000	96	43 --- 134		20
Benzo(k)fluoranthene	1880	ug/kg			2000	94	47 --- 132		20
Bis(2-chloroethoxy)methane	1380	ug/kg			2000	69	36 --- 121		20
Bis(2-chloroethyl)ether	1370	ug/kg			2000	68	31 --- 120		20
Bis(2-chloroisopropyl)ether	1240	ug/kg			2000	62	33 --- 131		20
Bis(2-ethylhexyl)phthalate	1830	ug/kg			2000	92	51 --- 133		20
Butylbenzylphthalate	1850	ug/kg			2000	92	48 --- 132		20

Lab Control Spike Soil

Analytical Run #:	266333	Analysis Date:	10/19/2022	Prep Batch #:	127272	Matrix:	SOLID
CTLab #:	1248689	Analysis Time:	11:17	Prep Date/Time:	10/14/2022 11:00	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Caprolactam	1920	ug/kg			2000	96	46 --- 117		20
Carbazole	1890	ug/kg			2000	94	50 --- 123		20
Chrysene	1830	ug/kg			2000	92	50 --- 124		20
Di-n-butylphthalate	1890	ug/kg			2000	94	51 --- 128		20
Di-n-octylphthalate	1870	ug/kg			2000	94	51 --- 128		20
Dibenzo(a,h)anthracene	1960	ug/kg			2000	98	45 --- 134		20
Dibenzofuran	1600	ug/kg			2000	80	44 --- 120		20
Diethylphthalate	1830	ug/kg			2000	92	50 --- 124		20
Dimethylphthalate	1680	ug/kg			2000	84	48 --- 124		20
Fluoranthene	1840	ug/kg			2000	92	50 --- 127		20
Fluorene	1750	ug/kg			2000	88	43 --- 125		20
Hexachlorobenzene	1770	ug/kg			2000	88	45 --- 122		20
Hexachlorobutadiene	1590	ug/kg			2000	80	32 --- 123		20
Hexachlorocyclopentadiene	1580	ug/kg			2000	79	35 --- 106		20
Hexachloroethane	1320	ug/kg			2000	66	28 --- 117		20
Indeno(1,2,3-cd)pyrene	1870	ug/kg			2000	94	45 --- 133		20
Isophorone	1390	ug/kg			2000	70	30 --- 122		20
N-Nitroso-di-n-propylamine	1320	ug/kg			2000	66	36 --- 120		20
N-Nitrosodiphenylamine & Diphn	3440	ug/kg			4000	86	38 --- 127		20
Naphthalene	1490	ug/kg			2000	74	35 --- 123		20
Nitrobenzene	1420	ug/kg			2000	71	34 --- 122		20
Pentachlorophenol	1840	ug/kg			2000	92	25 --- 133		20
Phenanthrene	1770	ug/kg			2000	88	50 --- 121		20
Phenol	1440	ug/kg			2000	72	34 --- 121		20
Pyrene	1790	ug/kg			2000	90	47 --- 127		20
Pyridine	934	ug/kg			2000	47	1 --- 63		20
Surr: 2,4,6-Tribromophenol	94.0	% Recovery			100	94.0	39 --- 132		
Surr: 2-Fluorobiphenyl	77.3	% Recovery			100	77.3	44 --- 115		
Surr: 2-Fluorophenol	70.4	% Recovery			100	70.4	35 --- 115		
Surr: Nitrobenzene-d5	72.0	% Recovery			100	72.0	37 --- 122		
Surr: Phenol-d5	70.8	% Recovery			100	70.8	33 --- 122		
Surr: Terphenyl-d14	89.6	% Recovery			100	89.6	54 --- 127		

Method Blank Soil

Analytical Run #:	266333	Analysis Date:	10/19/2022	Prep Batch #:	127272	Matrix:	SOLID
CTLab #:	1248688	Analysis Time:	10:53	Prep Date/Time:	10/14/2022 11:00	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	100	ug/kg		U	0		100		
1,2,4,5-Tetrachlorobenzene	200	ug/kg		U	0		200		
1,4-Dichlorobenzene	100	ug/kg		U	0		100		
2,4,5-Trichlorophenol	500	ug/kg		U	0		500		
2,4,6-Trichlorophenol	500	ug/kg		U	0		500		
2,4-Dichlorophenol	500	ug/kg		U	0		500		
2,4-Dimethylphenol	500	ug/kg		U Q	0		500		
2,4-Dinitrophenol	500	ug/kg		U	0		500		
2,4-Dinitrotoluene	100	ug/kg		U	0		100		
2,6-Dinitrotoluene	100	ug/kg		U	0		100		
2-Chloronaphthalene	100	ug/kg		U	0		100		
2-Chlorophenol	500	ug/kg		U	0		500		
2-Methylnaphthalene	100	ug/kg		U	0		100		
2-Methylphenol	500	ug/kg		U	0		500		
2-Nitroaniline	200	ug/kg		U	0		200		
2-Nitrophenol	500	ug/kg		U	0		500		
3 & 4-Methylphenol	1000	ug/kg		U	0		1000		
3,3'-Dichlorobenzidine	200	ug/kg		U	0		200		
3-Nitroaniline	100	ug/kg		U	0		100		
4,6-Dinitro-2-methylphenol	500	ug/kg		U	0		500		
4-Bromophenyl-phenyl ether	100	ug/kg		U	0		100		
4-Chloro-3-methylphenol	500	ug/kg		U	0		500		
4-Chloroaniline	200	ug/kg		U	0		200		
4-Chlorophenyl-phenyl ether	100	ug/kg		U	0		100		
4-Nitroaniline	100	ug/kg		U	0		100		
4-Nitrophenol	500	ug/kg		U	0		500		
Acenaphthene	200	ug/kg		U	0		200		
Acenaphthylene	100	ug/kg		U	0		100		
Acetophenone	100	ug/kg		U	0		100		
Anthracene	100	ug/kg		U	0		100		
Atrazine	100	ug/kg		U	0		100		
Benzaldehyde	100	ug/kg		U	0		100		
Benzo(a)anthracene	100	ug/kg		U	0		100		
Benzo(a)pyrene	100	ug/kg		U	0		100		
Benzo(b)fluoranthene	100	ug/kg		U	0		100		
Benzo(g,h,i)perylene	100	ug/kg		U	0		100		
Benzo(k)fluoranthene	100	ug/kg		U	0		100		
Bis(2-chloroethoxy)methane	100	ug/kg		U	0		100		
Bis(2-chloroethyl)ether	100	ug/kg		U	0		100		
Bis(2-chloroisopropyl)ether	100	ug/kg		U	0		100		
Bis(2-ethylhexyl)phthalate	100	ug/kg		U	0		100		
Butylbenzylphthalate	200	ug/kg		U	0		200		

Method Blank Soil

Analytical Run #:	266333	Analysis Date:	10/19/2022	Prep Batch #:	127272	Matrix:	SOLID
CTLab #:	1248688	Analysis Time:	10:53	Prep Date/Time:	10/14/2022 11:00	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Caprolactam	200	ug/kg		U	0			200	
Carbazole	200	ug/kg		U	0			200	
Chrysene	100	ug/kg		U	0			100	
Di-n-butylphthalate	200	ug/kg		U	0			200	
Di-n-octylphthalate	100	ug/kg		U	0			100	
Dibenzo(a,h)anthracene	100	ug/kg		U	0			100	
Dibenzofuran	100	ug/kg		U	0			100	
Diethylphthalate	100	ug/kg		U	0			100	
Dimethylphthalate	100	ug/kg		U	0			100	
Fluoranthene	100	ug/kg		U	0			100	
Fluorene	100	ug/kg		U	0			100	
Hexachlorobenzene	100	ug/kg		U	0			100	
Hexachlorobutadiene	100	ug/kg		U	0			100	
Hexachlorocyclopentadiene	100	ug/kg		U	0			100	
Hexachloroethane	100	ug/kg		U	0			100	
Indeno(1,2,3-cd)pyrene	100	ug/kg		U	0			100	
Isophorone	100	ug/kg		U	0			100	
N-Nitroso-di-n-propylamine	100	ug/kg		U	0			100	
N-Nitrosodiphenylamine & Diphn	200	ug/kg		U	0			200	
Naphthalene	100	ug/kg		U	0			100	
Nitrobenzene	100	ug/kg		U	0			100	
Pentachlorophenol	500	ug/kg		U	0			500	
Phenanthrene	100	ug/kg		U	0			100	
Phenol	500	ug/kg		U	0			500	
Pyrene	100	ug/kg		U	0			100	
Pyridine	200	ug/kg		U	0			200	
Surr: 2,4,6-Tribromophenol	61.7	% Recovery			100	61.7	39 ---	132	
Surr: 2-Fluorobiphenyl	69.6	% Recovery			100	69.6	44 ---	115	
Surr: 2-Fluorophenol	67.2	% Recovery			100	67.2	35 ---	115	
Surr: Nitrobenzene-d5	66.1	% Recovery			100	66.1	37 ---	122	
Surr: Phenol-d5	69.9	% Recovery			100	69.9	33 ---	122	
Surr: Terphenyl-d14	86.1	% Recovery			100	86.1	54 ---	127	

Matrix Spike Duplicate Soil

Analytical Run #:	266333	Analysis Date:	10/19/2022	Prep Batch #:	127272	Matrix:	SOIL
CTLab #:	1248692	Analysis Time:	14:25	Prep Date/Time:	10/14/2022 11:00	Method:	SW8270D
Parent Sample #:	1248691	Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	1920	ug/kg	BDL		2380	81	40 --- 117	0	20
1,2,4,5-Tetrachlorobenzene	1670	ug/kg	BDL		2380	70	47 --- 106	8	20
1,4-Dichlorobenzene	1450	ug/kg	BDL		2380	61	31 --- 115	11	20
2,4,5-Trichlorophenol	2380	ug/kg	BDL	U	2380	52	41 --- 124	16	20
2,4,6-Trichlorophenol	2380	ug/kg	BDL	U	2380	66	39 --- 126	3	20
2,4-Dichlorophenol	2740	ug/kg	BDL	U	2380	58	40 --- 122	4	20
2,4-Dimethylphenol	1790	ug/kg	BDL	U Q	2380	62	30 --- 127	15	20
2,4-Dinitrophenol	596	ug/kg	BDL	U	2380	0	16 --- 102	0	20
2,4-Dinitrotoluene	694	ug/kg	BDL		2380	29	48 --- 126	61	20
2,6-Dinitrotoluene	1080	ug/kg	BDL		2380	45	46 --- 124	4	20
2-Chloronaphthalene	1640	ug/kg	BDL		2380	69	41 --- 114	1	20
2-Chlorophenol	2380	ug/kg	BDL	U	2380	58	34 --- 121	8	20
2-Methylnaphthalene	2240	ug/kg	1100		2380	48	38 --- 122	1	20
2-Methylphenol	2380	ug/kg	BDL	U	2380	73	32 --- 122	3	20
2-Nitroaniline	1710	ug/kg	BDL		2380	72	44 --- 127	10	20
2-Nitrophenol	3580	ug/kg	BDL	U	2380	14	36 --- 123	28	20
3 & 4-Methylphenol	3580	ug/kg	BDL	U	2380	79	34 --- 119	3	20
3,3'-Dichlorobenzidine	596	ug/kg	BDL	U	2380	0	22 --- 121	0	20
3-Nitroaniline	1900	ug/kg	BDL		2380	80	33 --- 119	200	20
4,6-Dinitro-2-methylphenol	596	ug/kg	BDL	U	2380	0	29 --- 132	0	20
4-Bromophenyl-phenyl ether	1940	ug/kg	BDL		2380	82	46 --- 124	0	20
4-Chloro-3-methylphenol	2380	ug/kg	BDL	U	2380	58	45 --- 122	14	20
4-Chloroaniline	596	ug/kg	BDL	U	2380	0	17 --- 106	0	20
4-Chlorophenyl-phenyl ether	1820	ug/kg	BDL		2380	76	45 --- 121	2	20
4-Nitroaniline	596	ug/kg	BDL	U	2380	0	44 --- 125	0	20
4-Nitrophenol	596	ug/kg	BDL	U	2380	0	30 --- 132	0	20
Acenaphthene	2020	ug/kg	2170		2380	0	40 --- 123	2	20
Acenaphthylene	1870	ug/kg	BDL		2380	79	32 --- 132	1	20
Acetophenone	2380	ug/kg	BDL	U	2380	74	25 --- 96	2	20
Anthracene	2800	ug/kg	4890		2380	0	47 --- 123	4	20
Atrazine	2270	ug/kg	BDL		2380	95	47 --- 127	13	20
Benzaldehyde	2030	ug/kg	BDL		2380	85	6 --- 185	9	20
Benzo(a)anthracene	3960	ug/kg	12500		2380	0	49 --- 126	34	20
Benzo(a)pyrene	4300	ug/kg	12700		2380	0	45 --- 129	25	20
Benzo(b)fluoranthene	6560	ug/kg	19300		2380	0	45 --- 132	18	20
Benzo(g,h,i)perylene	6240	ug/kg	8240		2380	0	43 --- 134	3	20
Benzo(k)fluoranthene	2980	ug/kg	5560	U	2380	0	47 --- 132	37	20
Bis(2-chloroethoxy)methane	1490	ug/kg	BDL		2380	63	36 --- 121	1	20
Bis(2-chloroethyl)ether	1330	ug/kg	BDL		2380	56	31 --- 120	18	20
Bis(2-chloroisopropyl)ether	1550	ug/kg	BDL		2380	65	33 --- 131	13	20
Bis(2-ethylhexyl)phthalate	9070	ug/kg	6400		2380	112	51 --- 133	1	20
Butylbenzylphthalate	3150	ug/kg	BDL		2380	132	48 --- 132	34	20

Matrix Spike Duplicate Soil

Analytical Run #:	266333	Analysis Date:	10/19/2022	Prep Batch #:	127272	Matrix:	SOIL
CTLab #:	1248692	Analysis Time:	14:25	Prep Date/Time:	10/14/2022 11:00	Method:	SW8270D
Parent Sample #:	1248691	Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Caprolactam	2720	ug/kg	BDL		2380	114	46 --- 117	1	20
Carbazole	2260	ug/kg	3520		2380	0	50 --- 123	4	20
Chrysene	4190	ug/kg	11900		2380	0	50 --- 124	26	20
Di-n-butylphthalate	2530	ug/kg	BDL		2380	106	51 --- 128	2	20
Di-n-octylphthalate	2290	ug/kg	BDL		2380	96	45 --- 140	0	20
Dibenzo(a,h)anthracene	4850	ug/kg	3320		2380	64	45 --- 134	8	20
Dibenzofuran	1990	ug/kg	1020		2380	41	44 --- 120	0	20
Diethylphthalate	2010	ug/kg	BDL		2380	84	50 --- 124	1	20
Dimethylphthalate	1740	ug/kg	BDL		2380	73	48 --- 124	10	20
Fluoranthene	6530	ug/kg	22300		2380	0	50 --- 127	36	20
Fluorene	2410	ug/kg	1910		2380	21	43 --- 125	6	20
Hexachlorobenzene	1630	ug/kg	BDL		2380	68	45 --- 122	4	20
Hexachlorobutadiene	1700	ug/kg	BDL		2380	71	32 --- 123	4	20
Hexachlorocyclopentadiene	596	ug/kg	BDL	U	2380	0	35 --- 106	0	20
Hexachloroethane	975	ug/kg	BDL		2380	41	28 --- 117	2	20
Indeno(1,2,3-cd)pyrene	6700	ug/kg	9180		2380	0	45 --- 133	12	20
Isophorone	1550	ug/kg	BDL		2380	65	30 --- 122	4	20
N-Nitroso-di-n-propylamine	1840	ug/kg	BDL		2380	77	36 --- 120	0	20
N-Nitrosodiphenylamine & Diphn	4270	ug/kg	BDL		4770	90	38 --- 127	3	20
Naphthalene	2150	ug/kg	1500		2380	27	35 --- 123	2	20
Nitrobenzene	1110	ug/kg	BDL		2380	47	34 --- 122	0	20
Pentachlorophenol	2380	ug/kg	BDL	U	2380	90	25 --- 133	5	20
Phenanthrene	5140	ug/kg	15000		2380	0	50 --- 121	9	20
Phenol	2380	ug/kg	BDL	U	2380	82	34 --- 121	6	20
Pyrene	7350	ug/kg	21400		2380	0	47 --- 127	33	20
Pyridine	1410	ug/kg	BDL		2380	59	1 --- 63	2	20
Surr: 2,4,6-Tribromophenol	69.1	% Recovery			100	69.1	39 --- 132	0	
Surr: 2-Fluorobiphenyl	68.6	% Recovery			100	68.6	44 --- 115	0	
Surr: 2-Fluorophenol	52.7	% Recovery			100	52.7	35 --- 115	0	
Surr: Nitrobenzene-d5	42.3	% Recovery			100	42.3	37 --- 122	0	
Surr: Phenol-d5	62.1	% Recovery			100	62.1	33 --- 122	0	
Surr: Terphenyl-d14	87.3	% Recovery			100	87.3	54 --- 127	0	

Matrix Spike Soil

Analytical Run #:	266333	Analysis Date:	10/19/2022	Prep Batch #:	127272	Matrix:	SOIL
CTLab #:	1248691	Analysis Time:	14:01	Prep Date/Time:	10/14/2022 11:00	Method:	SW8270D
Parent Sample #:	1248293	Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	1910	ug/kg	BDL		2380	80	40 --- 117		20
1,2,4,5-Tetrachlorobenzene	1800	ug/kg	BDL		2380	76	47 --- 106		20
1,4-Dichlorobenzene	1610	ug/kg	BDL		2380	68	31 --- 115		20
2,4,5-Trichlorophenol	2380	ug/kg	BDL	U	2380	61	41 --- 124		20
2,4,6-Trichlorophenol	2380	ug/kg	BDL	U	2380	64	39 --- 126		20
2,4-Dichlorophenol	2740	ug/kg	BDL	U	2380	60	40 --- 122		20
2,4-Dimethylphenol	1780	ug/kg	BDL	U Q	2380	72	30 --- 127		20
2,4-Dinitrophenol	595	ug/kg	BDL	U	2380	0	16 --- 102		20
2,4-Dinitrotoluene	1300	ug/kg	BDL		2380	55	48 --- 126		20
2,6-Dinitrotoluene	1040	ug/kg	BDL		2380	44	46 --- 124		20
2-Chloronaphthalene	1660	ug/kg	BDL		2380	70	41 --- 114		20
2-Chlorophenol	1780	ug/kg	BDL	U	2380	63	34 --- 121		20
2-Methylnaphthalene	2380	ug/kg	1100	U	2380	48	38 --- 122		20
2-Methylphenol	2380	ug/kg	BDL	U	2380	75	32 --- 122		20
2-Nitroaniline	1880	ug/kg	BDL		2380	79	44 --- 127		20
2-Nitrophenol	3570	ug/kg	BDL	U	2380	18	36 --- 123		20
3 & 4-Methylphenol	1940	ug/kg	BDL		2380	82	34 --- 119		20
3,3'-Dichlorobenzidine	595	ug/kg	BDL	U	2380	0	22 --- 121		20
3-Nitroaniline	595	ug/kg	BDL	U	2380	0	33 --- 119		20
4,6-Dinitro-2-methylphenol	595	ug/kg	BDL	U	2380	0	29 --- 132		20
4-Bromophenyl-phenyl ether	1940	ug/kg	BDL		2380	82	46 --- 124		20
4-Chloro-3-methylphenol	2380	ug/kg	BDL	U	2380	67	45 --- 122		20
4-Chloroaniline	595	ug/kg	BDL	U	2380	0	17 --- 106		20
4-Chlorophenyl-phenyl ether	1790	ug/kg	BDL		2380	75	45 --- 121		20
4-Nitroaniline	595	ug/kg	BDL	U	2380	0	44 --- 125		20
4-Nitrophenol	595	ug/kg	BDL	U	2380	0	30 --- 132		20
Acenaphthene	1970	ug/kg	2170		2380	0	40 --- 123		20
Acenaphthylene	2380	ug/kg	BDL	U	2380	77	32 --- 132		20
Acetophenone	1730	ug/kg	BDL		2380	73	25 --- 96		20
Anthracene	2900	ug/kg	4890		2380	0	47 --- 123		20
Atrazine	1990	ug/kg	BDL		2380	84	47 --- 127		20
Benzaldehyde	2220	ug/kg	BDL		2380	93	6 --- 185		20
Benzo(a)anthracene	5600	ug/kg	12500		2380	0	49 --- 126		20
Benzo(a)pyrene	5510	ug/kg	12700		2380	0	45 --- 129		20
Benzo(b)fluoranthene	7860	ug/kg	19300		2380	0	45 --- 132		20
Benzo(g,h,i)perylene	6390	ug/kg	8240		2380	0	43 --- 134		20
Benzo(k)fluoranthene	3980	ug/kg	5560		2380	0	47 --- 132		20
Bis(2-chloroethoxy)methane	1470	ug/kg	BDL		2380	62	36 --- 121		20
Bis(2-chloroethyl)ether	1600	ug/kg	BDL		2380	67	31 --- 120		20
Bis(2-chloroisopropyl)ether	1760	ug/kg	BDL		2380	74	33 --- 131		20
Bis(2-ethylhexyl)phthalate	9120	ug/kg	6400		2380	114	51 --- 133		20
Butylbenzylphthalate	2240	ug/kg	BDL		2380	94	48 --- 132		20

Matrix Spike Soil

Analytical Run #:	266333	Analysis Date:	10/19/2022	Prep Batch #:	127272	Matrix:	SOIL
CTLab #:	1248691	Analysis Time:	14:01	Prep Date/Time:	10/14/2022 11:00	Method:	SW8270D
Parent Sample #:	1248293	Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Caprolactam	2750	ug/kg	BDL		2380	116	46 --- 117		20
Carbazole	2330	ug/kg	3520		2380	0	50 --- 123		20
Chrysene	5450	ug/kg	11900		2380	0	50 --- 124		20
Di-n-butylphthalate	2570	ug/kg	BDL		2380	108	51 --- 128		20
Di-n-octylphthalate	2300	ug/kg	BDL		2380	97	45 --- 140		20
Dibenzo(a,h)anthracene	5250	ug/kg	3320		2380	81	45 --- 134		20
Dibenzofuran	1990	ug/kg	1020		2380	41	44 --- 120		20
Diethylphthalate	1980	ug/kg	BDL		2380	83	50 --- 124		20
Dimethylphthalate	1920	ug/kg	BDL		2380	81	48 --- 124		20
Fluoranthene	9420	ug/kg	22300		2380	0	50 --- 127		20
Fluorene	2380	ug/kg	1910	U	2380	14	43 --- 125		20
Hexachlorobenzene	1700	ug/kg	BDL		2380	71	45 --- 122		20
Hexachlorobutadiene	1630	ug/kg	BDL		2380	68	32 --- 123		20
Hexachlorocyclopentadiene	595	ug/kg	BDL	U	2380	0	35 --- 106		20
Hexachloroethane	990	ug/kg	BDL		2380	42	28 --- 117		20
Indeno(1,2,3-cd)pyrene	7550	ug/kg	9180		2380	0	45 --- 133		20
Isophorone	1620	ug/kg	BDL		2380	68	30 --- 122		20
N-Nitroso-di-n-propylamine	2380	ug/kg	BDL	U	2380	77	36 --- 120		20
N-Nitrosodiphenylamine & Diphn	4140	ug/kg	BDL		4760	87	38 --- 127		20
Naphthalene	2110	ug/kg	1500		2380	26	35 --- 123		20
Nitrobenzene	1100	ug/kg	BDL		2380	46	34 --- 122		20
Pentachlorophenol	2380	ug/kg	BDL	U	2380	95	25 --- 133		20
Phenanthrene	5610	ug/kg	15000		2380	0	50 --- 121		20
Phenol	2380	ug/kg	BDL	U	2380	86	34 --- 121		20
Pyrene	10300	ug/kg	21400		2380	0	47 --- 127		20
Pyridine	1430	ug/kg	BDL		2380	60	1 --- 63		20
Surr: 2,4,6-Tribromophenol	75.3	% Recovery			100	75.3	39 --- 132		
Surr: 2-Fluorobiphenyl	67.5	% Recovery			100	67.5	44 --- 115		
Surr: 2-Fluorophenol	54.4	% Recovery			100	54.4	35 --- 115		
Surr: Nitrobenzene-d5	45.1	% Recovery			100	45.1	37 --- 122		
Surr: Phenol-d5	60.5	% Recovery			100	60.5	33 --- 122		
Surr: Terphenyl-d14	83.6	% Recovery			100	83.6	54 --- 127		

Lab Control Spike Water

Analytical Run #:	266344	Analysis Date:	10/18/2022	Prep Batch #:	127303	Matrix:	LIQUID
CTLab #:	1249884	Analysis Time:	21:15	Prep Date/Time:	10/18/2022 09:15	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.116	mg/L			0.2	58	29 --- 112		20
2,4,5-Trichlorophenol	0.149	mg/L			0.2	74	53 --- 123		20
2,4,6-Trichlorophenol	0.138	mg/L			0.2	69	50 --- 125		20
2,4-Dinitrotoluene	0.151	mg/L			0.2	76	57 --- 128		20
2-Methylphenol	0.123	mg/L			0.2	62	30 --- 117		20
3 & 4-Methylphenol	0.121	mg/L			0.2	60	29 --- 110		20
Hexachlorobenzene	0.146	mg/L			0.2	73	53 --- 125		20
Hexachlorobutadiene	0.120	mg/L			0.2	60	22 --- 124		20
Hexachloroethane	0.108	mg/L			0.2	54	21 --- 115		20
Nitrobenzene	0.126	mg/L			0.2	63	45 --- 121		20
Pentachlorophenol	0.153	mg/L			0.2	76	35 --- 138		20
Pyridine	0.0419	mg/L			0.2	21	0 --- 106		20
Surr: 2,4,6-Tribromophenol	82.9	% Recovery			100	82.9	43 --- 140		
Surr: 2-Fluorobiphenyl	67.2	% Recovery			100	67.2	44 --- 119		
Surr: 2-Fluorophenol	53.1	% Recovery			100	53.1	19 --- 119		
Surr: Nitrobenzene-d5	64.7	% Recovery			100	64.7	44 --- 120		
Surr: Phenol-d5	44.2	% Recovery			100	44.2	1 --- 114		
Surr: Terphenyl-d14	74.3	% Recovery			100	74.3	50 --- 134		

Method Blank Water

Analytical Run #:	266344	Analysis Date:	10/18/2022	Prep Batch #:	127303	Matrix:	LIQUID
CTLab #:	1249883	Analysis Time:	20:52	Prep Date/Time:	10/18/2022 09:15	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0010	mg/L		U	0		0.0010		
2,4,5-Trichlorophenol	0.0050	mg/L		U	0		0.0050		
2,4,6-Trichlorophenol	0.0050	mg/L		U	0		0.0050		
2,4-Dinitrotoluene	0.0010	mg/L		U	0		0.0010		
2-Methylphenol	0.0050	mg/L		U	0		0.0050		
3 & 4-Methylphenol	0.0050	mg/L		U	0		0.0050		
Hexachlorobenzene	0.0010	mg/L		U	0		0.0010		
Hexachlorobutadiene	0.0010	mg/L		U	0		0.0010		
Hexachloroethane	0.0010	mg/L		U	0		0.0010		
Nitrobenzene	0.0010	mg/L		U	0		0.0010		
Pentachlorophenol	0.0050	mg/L		U	0		0.0050		
Pyridine	0.0020	mg/L		U	0		0.0020		
Surr: 2,4,6-Tribromophenol	75.2	% Recovery			100	75.2	43 --- 140		
Surr: 2-Fluorobiphenyl	64.8	% Recovery			100	64.8	44 --- 119		
Surr: 2-Fluorophenol	45.9	% Recovery			100	45.9	19 --- 119		
Surr: Nitrobenzene-d5	60.0	% Recovery			100	60.0	44 --- 120		
Surr: Phenol-d5	39.6	% Recovery			100	39.6	1 --- 114		
Surr: Terphenyl-d14	77.9	% Recovery			100	77.9	50 --- 134		

Matrix Spike Duplicate Water

Analytical Run #:	266344	Analysis Date:	10/18/2022	Prep Batch #:	127303	Matrix:	TCLP
CTLab #:	1249887	Analysis Time:	22:25	Prep Date/Time:	10/18/2022 09:15	Method:	SW8270D
Parent Sample #:	1249886	Analyst:	JJY	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.122	mg/L	BDL		0.2	61	29 --- 112	28	20
2,4,5-Trichlorophenol	0.156	mg/L	BDL		0.2	78	53 --- 123	28	20
2,4,6-Trichlorophenol	0.149	mg/L	BDL		0.2	74	50 --- 125	28	20
2,4-Dinitrotoluene	0.157	mg/L	BDL		0.2	78	57 --- 128	31	20
2-Methylphenol	0.135	mg/L	BDL		0.2	68	30 --- 117	26	20
3 & 4-Methylphenol	0.128	mg/L	BDL		0.2	64	29 --- 110	29	20
Hexachlorobenzene	0.147	mg/L	BDL		0.2	74	53 --- 125	33	20
Hexachlorobutadiene	0.127	mg/L	BDL		0.2	64	22 --- 124	29	20
Hexachloroethane	0.115	mg/L	BDL		0.2	58	21 --- 115	28	20
Nitrobenzene	0.137	mg/L	BDL		0.2	68	45 --- 121	28	20
Pentachlorophenol	0.165	mg/L	BDL		0.2	82	35 --- 138	32	20
Pyridine	0.0681	mg/L	BDL		0.2	34	0 --- 106	44	20
Surr: 2,4,6-Tribromophenol	85.3	% Recovery			100	85.3	43 --- 140	0	
Surr: 2-Fluorobiphenyl	70.7	% Recovery			100	70.7	44 --- 119	0	
Surr: 2-Fluorophenol	55.4	% Recovery			100	55.4	19 --- 119	0	
Surr: Nitrobenzene-d5	68.6	% Recovery			100	68.6	44 --- 120	0	
Surr: Phenol-d5	47.7	% Recovery			100	47.7	1 --- 114	0	
Surr: Terphenyl-d14	70.8	% Recovery			100	70.8	50 --- 134	0	

Matrix Spike Water

Analytical Run #:	266344	Analysis Date:	10/18/2022	Prep Batch #:	127303	Matrix:	TCLP
CTLab #:	1249886	Analysis Time:	22:02	Prep Date/Time:	10/18/2022 09:15	Method:	SW8270D
Parent Sample #:	1248292	Analyst:	JJY	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.161	mg/L	BDL		0.2	80	29 --- 112		20
2,4,5-Trichlorophenol	0.208	mg/L	BDL		0.2	104	53 --- 123		20
2,4,6-Trichlorophenol	0.197	mg/L	BDL		0.2	98	50 --- 125		20
2,4-Dinitrotoluene	0.215	mg/L	BDL		0.2	108	57 --- 128		20
2-Methylphenol	0.175	mg/L	BDL		0.2	88	30 --- 117		20
3 & 4-Methylphenol	0.171	mg/L	BDL		0.2	86	29 --- 110		20
Hexachlorobenzene	0.205	mg/L	BDL		0.2	102	53 --- 125		20
Hexachlorobutadiene	0.170	mg/L	BDL		0.2	85	22 --- 124		20
Hexachloroethane	0.152	mg/L	BDL		0.2	76	21 --- 115		20
Nitrobenzene	0.181	mg/L	BDL		0.2	90	45 --- 121		20
Pentachlorophenol	0.228	mg/L	BDL		0.2	114	35 --- 138		20
Pyridine	0.107	mg/L	BDL		0.2	54	0 --- 106		20
Surr: 2,4,6-Tribromophenol	120	% Recovery			100	120	43 --- 140		
Surr: 2-Fluorobiphenyl	95.1	% Recovery			100	95.1	44 --- 119		
Surr: 2-Fluorophenol	74.8	% Recovery			100	74.8	19 --- 119		
Surr: Nitrobenzene-d5	91.1	% Recovery			100	91.1	44 --- 120		
Surr: Phenol-d5	64.3	% Recovery			100	64.3	1 --- 114		
Surr: Terphenyl-d14	91.4	% Recovery			100	91.4	50 --- 134		

Lab Control Spike Duplicate Water

Analytical Run #:	266414	Analysis Date:	10/20/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1251863	Analysis Time:	14:05	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	1251793	Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	0.996	mg/L	1.04		1.0	100	71 --- 131	4	20
1,2 Dichloroethane-d4	98.0	% Recovery			100	98.0	81 --- 118	0	
1,2-Dichloroethane	1.00	mg/L	1.02		1.0	100	73 --- 128	2	20
2-Butanone	9.56	mg/L	9.82		10.0	96	56 --- 143	3	20
Benzene	1.01	mg/L	1.02		1.0	101	79 --- 120	1	20
Bromofluorobenzene	104	% Recovery			100	104	85 --- 114	0	
Carbon tetrachloride	1.05	mg/L	1.07		1.0	105	72 --- 136	2	20
Chlorobenzene	0.995	mg/L	1.00		1.0	100	82 --- 118	1	20
Chloroform	0.980	mg/L	0.986		1.0	98	79 --- 124	1	20
d8-Toluene	98.0	% Recovery			100	98.0	89 --- 112	0	
Dibromofluoromethane	97.0	% Recovery			100	97.0	80 --- 119	0	
Tetrachloroethene	0.985	mg/L	0.987		1.0	98	74 --- 129	0	20
Trichloroethene	0.961	mg/L	1.00		1.0	96	79 --- 123	4	20
Vinyl chloride	0.945	mg/L	0.986		1.0	94	58 --- 137	4	20

Lab Control Spike Water

Analytical Run #:	266414	Analysis Date:	10/20/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1251793	Analysis Time:	10:30	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	1.04	mg/L			1.0	104	71 --- 131		20
1,2 Dichloroethane-d4	105	% Recovery			100	105	81 --- 118		
1,2-Dichloroethane	1.02	mg/L			1.0	102	73 --- 128		20
2-Butanone	9.82	mg/L			10.0	98	56 --- 143		20
Benzene	1.02	mg/L			1.0	102	79 --- 120		20
Bromofluorobenzene	104	% Recovery			100	104	85 --- 114		
Carbon tetrachloride	1.07	mg/L			1.0	107	72 --- 136		20
Chlorobenzene	1.00	mg/L			1.0	100	82 --- 118		20
Chloroform	0.986	mg/L			1.0	99	79 --- 124		20
d8-Toluene	96.0	% Recovery			100	96.0	89 --- 112		
Dibromofluoromethane	99.0	% Recovery			100	99.0	80 --- 119		
Tetrachloroethene	0.987	mg/L			1.0	99	74 --- 129		20
Trichloroethene	1.00	mg/L			1.0	100	79 --- 123		20
Vinyl chloride	0.986	mg/L			1.0	99	58 --- 137		20

Method Blank Water

Analytical Run #:	266414	Analysis Date:	10/20/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1251795	Analysis Time:	11:31	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	0.0010	mg/L		U	0		0.0010		
1,2 Dichloroethane-d4	100	% Recovery			100	100	70 --- 120		
1,2-Dichloroethane	0.00105	mg/L		U	0		0.00105		
2-Butanone	0.0055	mg/L		U	0		0.0055		
Benzene	0.0010	mg/L		U	0		0.0010		
Bromofluorobenzene	106	% Recovery			100	106	75 --- 120		
Carbon tetrachloride	0.0006	mg/L		U	0		0.0006		
Chlorobenzene	0.0006	mg/L		U	0		0.0006		
Chloroform	0.0007	mg/L		U	0		0.0007		
d8-Toluene	98.0	% Recovery			100	98.0	85 --- 120		
Dibromofluoromethane	99.0	% Recovery			100	99.0	85 --- 115		
Tetrachloroethene	0.0010	mg/L		U	0		0.0010		
Trichloroethene	0.0006	mg/L		U	0		0.0006		
Vinyl chloride	0.00025	mg/L		U	0		0.00025		

Sample Condition Report

Folder #:	172899	Print Date / Time:	10/13/2022	10:17
Client:	TETRA TECH	Received Date / Time / By:	10/13/2022	10:12 erc
Project Name:	CHUDNOW METALS	Log-In Date / Time / By:	10/13/2022	10:17 erc
Project Phase:	MILWAUKEE, WI	Project #:	103X903100320001DH108	PM: BMS
Coolers:	6192	Temperature:	1.4 C	On Ice: Y
Custody Seals Present :	Y	COC Present?:	Y	Complete?: Y
Seal Intact?	Y	Numbers:	DATED AND SIGNED	
Ship Method:	FEDEX EXPRESS	Tracking Number:	7701 8907 1201	
Adequate Packaging:	Y	Temp Blank Enclosed?	Y	

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

TWO (2) CUSTODY SEALS WERE PRESENT AND INTACT UPON RECEIPT - BOTH WERE DATED 10/12/22 AND SIGNED.

REACTIVE SULFIDE ANALYSIS WAS ADDED TO SAMPLES CM-WC-SC-F3-221012, CM-WC-SC-ST-221012, & CM-WC-SC-G1-221012, PER THE CLIENT'S REQUEST.

A TRIP BLANK WAS RECEIVED IN THE COOLER BUT WAS NOT LISTED ON THE COC. THE TRIP BLANK WAS ADDED TO THE COC AND LOGGED FOR VOC (8260C) ANALYSIS.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?			Tests
1248292 CM-WC-SC-F3-221012	JAR GL	1	N	/	N	VOC,8270,HG,ICP
Total # of Containers of Type (JAR GL) = 1						
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?			Tests
1248293 CM-WC-SC-F3-221012	SOLIDS	1	N	/	N	%SOL
Total # of Containers of Type (SOLIDS) = 1						
1248293 CM-WC-SC-F3-221012	UNPRES GL	1	N	/	N	CB,PEST,CN React,FLASH,FLIQ,HG,ICP,pH,S
Total # of Containers of Type (UNPRES GL) = 1						
1248293 CM-WC-SC-F3-221012	TERRA CORE	1	N	/	N	VOC
	TERRA CORE	1		/		VOC
Total # of Containers of Type (TERRA CORE) = 2						
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?			Tests
1248294 CM-WC-SC-ST-221012	JAR GL	1	N	/	N	VOC,8270,HG,ICP
Total # of Containers of Type (JAR GL) = 1						
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?			Tests

1248295 CM-WC-SC-ST-221012		SOLIDS	1	N	/	N	%SOL
		Total # of Containers of Type (SOLIDS) = 1					
1248295 CM-WC-SC-ST-221012		UNPRES GL	1	N	/	N	CB,PEST,CN React,FLASH,FLIQ,HG,ICP,pH,S
		Total # of Containers of Type (UNPRES GL) = 1					
1248295 CM-WC-SC-ST-221012		TERRA CORE	1	N	/	N	VOC
		TERRA CORE	1		/		VOC
		Total # of Containers of Type (TERRA CORE) = 2					
Sample ID / Description		Container Type	Cond. Code	pH OK?/Filtered?		Tests	
1248296 CM-WC-SC-G1-221012		SOLIDS	1	N	/	N	%SOL,CN React,FLASH,FLIQ,S2 React,PEST
		Total # of Containers of Type (SOLIDS) = 1					
Sample ID / Description		Container Type	Cond. Code	pH OK?/Filtered?		Tests	
1248297 TRIP BLANK		VOA HCL	1	N	/	N	VOC
		VOA HCL	1	N	/	N	VOC
		VOA HCL	1		/		VOC
		VOA HCL	1		/		VOC
		Total # of Containers of Type (VOA HCL) = 4					

Condition Code Condition Description

1 Sample Received OK

TRK# 7701 8907 1201

THU - 13 OCT 10:30A

PRIORITY OVERNIGHT

55 LNRA

53913

WI-US MSN



ORIGIN ID: CHIA (312) 201-7448

ALEXA SCHOL
TETRA TECH INC
5401 S STATE ST
CHICAGO, IL 60606
UNITED STATES US

SHIP DATE: 12OCT22
ACTWGT: 20.00 LB
CAD: 102185850NET4530

BILL SENDER

TO DENNIS LINLEY
TETRA TECH
1230 LANGE COURT

BARABOO WI 53913

(608) 356-2760

REF: 103-90310030001D4H108

PO: DEPT:

FedEx
Business

581J1AC5FFE2D

- After print:
1. Use the
 2. Fold the
 3. Place label in shipping pouch and attach it to your shipment.

CUSTODY SEAL

DATE: 10/12/22

SIGNATURE: *Alexa Schol*

QEC

Quality Environmental Containers
800-255-3950 • 304-255-3900

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you can document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide. Loss of sales, income interest, profit.

CUSTODY SEAL

DATE: 10/12/22

SIGNATURE: *Alexa Schol*

QEC

Quality Environmental Containers
800-255-3950 • 304-255-3900

Ice Present ☒ Yes ☐ No

Temperature 1.9

Initials Lin

Date 10/13/22 Time 1012

Cooler # 6192



Microbac Laboratories Inc., - Marietta, OH

Client Project ID:

Misc non DOD

For:

Brett Szymanski

CT Laboratories

1230 Lange Court

Baraboo, WI 53913

Project State of Origin: Wisconsin

Project Requested Certification:

Microbac Laboratories Inc., - Marietta, OH

E87551

Florida Department of Health

All test results meet the requirements of the QAPP and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. The reported results are related only to the samples analyzed as received. This laboratory report may be released as a hardcopy and in computer-readable form submitted electronically or on diskette. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, Inc.

Laboratory Project Manager:

Alicia Walker

Project Manager

Alicia.Walker@Microbac.com

Authorized By:

Alicia Walker

Project Manager

Issued: 10/24/2022

Microbac Laboratories, Inc.

158 Starlite Drive | Marietta, OH 45750 | 800.373.4071 p | www.microbac.com



Laboratory Report Number: M2J1038

Client Project ID: Misc non DOD

Cooler Receipt Log

Cooler ID: Default Cooler

Temp: 2.1°C

Cooler Inspection Checklist

Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes

Laboratory Report Number: M2J1038

Client Project ID: Misc non DOD

Sample Notes

EPA 8151A

D1 Dilution was performed due to matrix interference.

M2J1038-03

CM-WC-SC-G1-221012

S3 Surrogate was diluted out.

2,4-Dichlorophenylacetic acid [2C]

M2J1038-01

CM-WC-SC-F3-221012

M2J1038-02

CM-WC-SC-ST-221012

M2J1038-03

CM-WC-SC-G1-221012

Laboratory Report Number: M2J1038

Client Project ID: Misc non DOD

QC Sample Notes

AC This analyte passed the criteria of greater than 10% recovery, however the RL is above that limit, so the result is showing as non detect.

EPA 8151A

Dalapon [2C]

B2J1019-BS1 LCS

B2J1019-BS1 LCS

R1 Duplicate RPD is outside of acceptance limits.

EPA 8151A

2,4,5-T [2C]

B2J1019-BSD1 LCS Dup

2,4,5-TP (Silvex) [2C]

B2J1019-BSD1 LCS Dup

2,4-D [2C]

B2J1019-BSD1 LCS Dup

2,4-DB [2C]

B2J1019-BSD1 LCS Dup

Dalapon [2C]

B2J1019-BSD1 LCS Dup

Dicamba [2C]

B2J1019-BSD1 LCS Dup

Dichloroprop [2C]

B2J1019-BSD1 LCS Dup

Dinoseb [2C]

B2J1019-BSD1 LCS Dup

MCPA [2C]

B2J1019-BSD1 LCS Dup

MCPP [2C]

B2J1019-BSD1 LCS Dup

Pentachlorophenol [2C]

B2J1019-BSD1 LCS Dup

B2J1019-BSD1 LCS Dup



Laboratory Report Number: M2J1038

Client Project ID: Misc non DOD

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: CM-WC-SC-F3-221012	Collection Date: 10/12/2022 10:40
Laboratory ID: M2J1038-01	Prep Date: 10/19/2022 09:43
Matrix: Solid	Analyzed: 10/20/2022 21:20
Batch / Sequence: B2J1019 / S2J0321	Calibration: 22J0001
Instrument: HP17	File ID: 17G36794.D
Analyst: ECL	% Solids: 80.93
Prep Method: EPA 8151A	
Analytical Method: EPA 8151A	
Units: ug/kg dry	
Dilution: 20	

Sample Notes: D1

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
2,4,5-T [2C]	93-76-5	ND	49.4	98.9	U	
2,4,5-TP (Silvex) [2C]	93-72-1	ND	37.1	74.1	U	
2,4-D [2C]	94-75-7	ND	494	989	U	
2,4-DB [2C]	94-82-6	ND	494	989	U	
Dalapon [2C]		ND	1240	2470	U	
Dicamba [2C]		ND	49.4	98.9	U	
Dichloroprop [2C]	120-36-5	ND	494	989	U	
Dinoseb [2C]	88-57-7	ND	247	494	U	
MCPA [2C]		ND	49400	98900	U	
MCPP [2C]		ND	49400	98900	U	
Pentachlorophenol [2C]		ND	49.4	98.9	U	

Surrogate	Recovery	Limits	Units	Q	Qualifier
2,4-Dichlorophenylacetic acid [2C]		25-128	% Rec		S3, U

Client ID: CM-WC-SC-F3-221012	Collection Date: 10/12/2022 10:40
Laboratory ID: M2J1038-01	Prep Date: 10/19/2022 00:05
Matrix: Solid	Analyzed: 10/20/2022 10:00
Batch / Sequence: B2J1106 /	Calibration: NA
Instrument: NA	File ID: PSOLID_MOIST_ASH@75drywt-soil_B2J1106_221020100912
Analyst: LJM	% Solids: 80.93
Analytical Method: ASTM D2216-10	
Units: % (by wt.)	
Dilution: 1	

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Percent Solids		80.9	0.500	1.00		

Client ID: CM-WC-SC-F3-221012	Collection Date: 10/12/2022 10:40
Laboratory ID: M2J1038-01	Prep Date: 10/20/2022 16:26
Matrix: Solid	Analyzed: 10/21/2022 11:21
Batch / Sequence: B2J1153 /	Calibration: NA
Instrument: BURET	File ID: SulfideReactive_B2J1153_221021112013.xls
Analyst: EPT	% Solids: 80.93
Analytical Method: EPA 7.3.4.2	
Units: mg/kg	
Dilution: 1	

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Reactive Sulfide		ND	100	100		



Laboratory Report Number: M2J1038

Client Project ID: Misc non DOD

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: CM-WC-SC-ST-221012	Collection Date: 10/12/2022 10:40
Laboratory ID: M2J1038-02	Prep Date: 10/19/2022 09:43
Matrix: Solid	Analyzed: 10/20/2022 21:45
Batch / Sequence: B2J1019 / S2J0321	Calibration: 22J0001
Instrument: HP17	File ID: 17G36795.D
Analyst: ECL	% Solids: 83.27
Prep Method: EPA 8151A	
Analytical Method: EPA 8151A	
Units: ug/kg dry	
Dilution: 20	

Sample Notes: D1

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
2,4,5-T [2C]	93-76-5	ND	48.0	96.1	U	
2,4,5-TP (Silvex) [2C]	93-72-1	ND	36.0	72.1	U	
2,4-D [2C]	94-75-7	ND	480	961	U	
2,4-DB [2C]	94-82-6	ND	480	961	U	
Dalapon [2C]		ND	1200	2400	U	
Dicamba [2C]		ND	48.0	96.1	U	
Dichloroprop [2C]	120-36-5	ND	480	961	U	
Dinoseb [2C]	88-57-7	ND	240	480	U	
MCPA [2C]		ND	48000	96100	U	
MCPP [2C]		ND	48000	96100	U	
Pentachlorophenol [2C]		ND	48.0	96.1	U	

Surrogate	Recovery	Limits	Units	Q	Qualifier
2,4-Dichlorophenylacetic acid [2C]		25-128	% Rec		S3, U

Client ID: CM-WC-SC-ST-221012	Collection Date: 10/12/2022 10:40
Laboratory ID: M2J1038-02	Prep Date: 10/19/2022 00:05
Matrix: Solid	Analyzed: 10/20/2022 10:00
Batch / Sequence: B2J1106 /	Calibration: NA
Instrument: NA	File ID: PSOLID_MOIST_ASH@75drywt-soil_B2J1106_221020100912
Analyst: LJM	% Solids: 83.27
Analytical Method: ASTM D2216-10	
Units: % (by wt.)	
Dilution: 1	

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Percent Solids		83.3	0.500	1.00		

Client ID: CM-WC-SC-ST-221012	Collection Date: 10/12/2022 10:40
Laboratory ID: M2J1038-02	Prep Date: 10/20/2022 16:26
Matrix: Solid	Analyzed: 10/21/2022 11:21
Batch / Sequence: B2J1153 /	Calibration: NA
Instrument: BURET	File ID: SulfideReactive_B2J1153_221021112013.xls
Analyst: EPT	% Solids: 83.27
Analytical Method: EPA 7.3.4.2	
Units: mg/kg	
Dilution: 1	

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Reactive Sulfide		ND	100	100		



Laboratory Report Number: M2J1038

Client Project ID: Misc non DOD

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: CM-WC-SC-G1-221012	Collection Date: 10/12/2022 15:11
Laboratory ID: M2J1038-03	Prep Date: 10/19/2022 09:43
Matrix: Solid	Analyzed: 10/20/2022 22:11
Batch / Sequence: B2J1019 / S2J0321	Calibration: 22J0001
Instrument: HP17	File ID: 17G36796.D
Analyst: ECL	% Solids: 83.58
Prep Method: EPA 8151A	
Analytical Method: EPA 8151A	
Units: ug/kg dry	
Dilution: 20	

Sample Notes: D1

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
2,4,5-T [2C]	93-76-5	ND	47.9	95.7	U	
2,4,5-TP (Silvex) [2C]	93-72-1	ND	35.9	71.8	U	
2,4-D [2C]	94-75-7	ND	479	957	U	
2,4-DB [2C]	94-82-6	ND	479	957	U	
Dalapon [2C]		ND	1200	2390	U	
Dicamba [2C]		ND	47.9	95.7	U	
Dichloroprop [2C]	120-36-5	ND	479	957	U	
Dinoseb [2C]	88-57-7	ND	239	479	U	
MCPA [2C]		ND	47900	95700	U	
MCPP [2C]		ND	47900	95700	U	
Pentachlorophenol [2C]		ND	47.9	95.7	U	

Surrogate	Recovery	Limits	Units	Q	Qualifier
2,4-Dichlorophenylacetic acid [2C]		25-128	% Rec		S3, U

Client ID: CM-WC-SC-G1-221012	Collection Date: 10/12/2022 15:11
Laboratory ID: M2J1038-03	Prep Date: 10/19/2022 00:05
Matrix: Solid	Analyzed: 10/20/2022 10:00
Batch / Sequence: B2J1106 /	Calibration: NA
Instrument: NA	File ID: PSOLID_MOIST_ASH@75drywt-soil_B2J1106_221020100912
Analyst: LJM	% Solids: 83.58
Analytical Method: ASTM D2216-10	
Units: % (by wt.)	
Dilution: 1	

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Percent Solids		83.6	0.500	1.00		

Client ID: CM-WC-SC-G1-221012	Collection Date: 10/12/2022 15:11
Laboratory ID: M2J1038-03	Prep Date: 10/20/2022 16:26
Matrix: Solid	Analyzed: 10/21/2022 11:21
Batch / Sequence: B2J1153 /	Calibration: NA
Instrument: BURET	File ID: SulfideReactive_B2J1153_221021112013.xls
Analyst: EPT	% Solids: 83.58
Analytical Method: EPA 7.3.4.2	
Units: mg/kg	
Dilution: 1	

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Reactive Sulfide		ND	100	100		



Laboratory Report Number: M2J1038

Client Project ID: Misc non DOD

Notes and Definitions

% (by wt.): Percent by Weight

D1: Dilution was performed due to matrix interference.

mg/kg: Milligrams per Kilogram

S3: Surrogate was diluted out.

U: The analyte was analyzed for but was not detected above the reported quantitation limit. The quantitation limit has been adjusted for any dilution or concentration of the sample.

MDL: Method Detection Limit

RL: Reporting Limit



Laboratory Report Number: M2J1038

Client Project ID: Misc non DOD

METHOD BLANKS

Sample ID: B2J1019-BLK1		Prep Date: 10/19/22 09:43		Matrix: Solid		
Instrument: HP17		Analyzed: 10/20/22 20:04		Method: EPA 8151A		
File ID: 17G36791.D		Sequence: S2J0321		Analyst: ECL		
Batch: B2J1019		Units: ug/kg wet		Calibration: 22J0001		
Analyte	Result	MDL	RL	Dilution	Flag	Q
2,4,5-T [2C]	2.00	2.00	4.00	1	U	
2,4,5-TP (Silvex) [2C]	1.50	1.50	3.00	1	U	
2,4-D [2C]	20.0	20.0	40.0	1	U	
2,4-DB [2C]	20.0	20.0	40.0	1	U	
Dalapon [2C]	50.0	50.0	100	1	U	
Dicamba [2C]	2.00	2.00	4.00	1	U	
Dichloroprop [2C]	20.0	20.0	40.0	1	U	
Dinoseb [2C]	10.0	10.0	20.0	1	U	
MCPA [2C]	2000	2000	4000	1	U	
MCPP [2C]	2000	2000	4000	1	U	
Pentachlorophenol [2C]	2.00	2.00	4.00	1	U	

Surrogate	Recovery	Limits	PASS/FAIL
2,4-Dichlorophenylacetic acid [2C]	85.3	25 - 128	PASS

Sample ID: B2J1106-BLK1		Prep Date: 10/19/22 00:05		Matrix: Solid		
Instrument: NA		Analyzed: 10/20/22 10:00		Method: ASTM D2216-10		
File ID: PSOLID_MOIST_ASH(Sequence:		Analyst: LJM		
Batch: B2J1106		Units: % (by wt.)		Calibration:		
Analyte	Result	MDL	RL	Dilution	Flag	Q
Percent Solids	99.9	0.500	1.00	1		*

Sample ID: B2J1153-BLK1		Prep Date: 10/20/22 16:26		Matrix: Solid		
Instrument: BURET		Analyzed: 10/21/22 11:21		Method: EPA 7.3.4.2		
File ID: SulfideReactive_B2J11:		Sequence:		Analyst: EPT		
Batch: B2J1153		Units: mg/kg		Calibration:		
Analyte	Result	MDL	RL	Dilution	Flag	Q
Reactive Sulfide	100	100	100	1	U	

* - Detected in the associated method Blank at a concentration >= RL



Laboratory Report Number: M2J1038

Client Project ID: Misc non DOD

BLANK SPIKE / DUPLICATE (BS/BSD)

Method: EPA 8151A		Blank Spike					Duplicate			
Batch: B2J1019		Spike ID: B2J1019-BS1					B2J1019-BSD1			
Analyst: ECL		Prepared: 10/19/22 09:43					10/19/22 09:43			
Matrix: Solid		Analyzed: 10/20/22 20:30					10/20/22 20:55			
Units: ug/kg wet		File ID: 17G36792.D					17G36793.D			
Instrument: HP17		Initial/Final: 50g/10mL					50g/10mL			
Calibration: 22J0001										

Analyte	BS Spiked	BS Found	BS %Rec	BSD Spiked	BSD Found	BSD %Rec	%RPD	%Rec Limts	RPD Limit	Q
2,4,5-T [2C]	10.0	5.47	54.7	10.0	11.4	114	70.1	20 - 120	30	#
2,4,5-TP (Silvex) [2C]	10.0	3.95	39.5	10.0	7.50	75.0	62.0	20 - 120	30	#
2,4-D [2C]	100	36.1	36.1	100	80.1	80.1	75.6	15 - 105	30	#
2,4-DB [2C]	100	37.1	37.1	100	93.2	93.2	86.2	20 - 140	30	#
Dalapon [2C]	250	ND	0	250	88.4	35.4	83.0	10 - 105	30	# *
Dicamba [2C]	10.0	4.26	42.6	10.0	7.51	75.1	55.2	30 - 145	30	#
Dichloroprop [2C]	100	55.1	55.1	100	111	111	67.5	20 - 130	30	#
Dinoseb [2C]	50.0	20.3	40.6	50.0	36.0	71.9	55.5	10 - 110	30	#
MCPA [2C]	10000	4400	44.0	10000	8340	83.4	61.9	15 - 110	30	#
MCPP [2C]	10000	3630	36.3	10000	8110	81.1	76.3	15 - 110	30	#
Pentachlorophenol [2C]	10.0	4.92	49.2	10.0	7.14	71.4	36.9	20 - 110	30	#

Surrogate	BS Spiked	BS Found	BS %Rec	BSD Spiked	BSD Found	BSD %Rec	%RPD	%Rec Limts	RPD Limit	Q
2,4-Dichlorophenylacetic acid [2C]	100	51.7	51.7	100	92.0	92.0		25 - 128		

* - Does not meet %Rec acceptance criteria.

- Does not meet RPD acceptance criteria.



Laboratory Report Number: M2J1038
Client Project ID: Misc non DOD

Method: ASTM D2216-10		Blank Spike				
Batch: B2J1106		Spike ID: B2J1106-BS1				
Analyst: LJM		Prepared: 10/19/22 00:05				
Matrix: Solid		Analyzed: 10/20/22 10:00				
Units: % (by wt.)		File ID: PSOLID_MOIST_ASH@75drywt:				
Instrument: NA		Initial/Final: 100g/100mL				
Calibration:						
Analyte		BS Spiked	BS Found	BS %Rec	%Rec Limts	Q
Percent Solids		80.0	80.4	101	90 - 110	

* - Does not meet %Rec acceptance criteria.
- Does not meet RPD acceptance criteria.



Laboratory Report Number: M2J1038
Client Project ID: Misc non DOD

Method: EPA 7.3.4.2		Blank Spike				
Batch: B2J1153		Spike ID: B2J1153-BS1				
Analyst: EPT		Prepared: 10/20/22 16:26				
Matrix: Solid		Analyzed: 10/21/22 11:21				
Units: mg/kg		File ID: SulfideReactive_B2J1153_22102				
Instrument: BURET		Initial/Final: 10g/250mL				
Calibration:						
Analyte		BS Spiked	BS Found	BS %Rec	%Rec Limts	Q
Reactive Sulfide		412	ND		50 - 150	*

* - Does not meet %Rec acceptance criteria.
- Does not meet RPD acceptance criteria.



Laboratory Report Number: M2J1038

Client Project ID: Misc non DOD

Method: EPA 7.3.4.2		Blank Spike				
Batch: B2J1153		Spike ID: B2J1153-BS2				
Analyst: EPT		Prepared: 10/20/22 16:26				
Matrix: Solid		Analyzed: 10/21/22 11:21				
Units: mg/kg		File ID: SulfideReactive_B2J1153_22102				
Instrument: BURET		Initial/Final: 10g/250mL				
Calibration:						
Analyte		BS Spiked	BS Found	BS %Rec	%Rec Limts	Q
Reactive Sulfide		824	450	54.6	50 - 150	

* - Does not meet %Rec acceptance criteria.

- Does not meet RPD acceptance criteria.

CT LABORATORIES

delivering more than data from your environmental analyses

1230 Lange Court • Baraboo, WI 53913 • 608-356-2760
www.ctlaboratories.com

Sub-Contract Laboratory Chain-of-Custody and Purchase Order

PURCHASE ORDER #: 172899 MICROBAC

The PO# must appear on all invoice and reports!

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.

Ship to:

Microbac
158 Starlight Drive
Marietta, OH 45750

Return Invoice and Results to:

bszymanski@ctlaboratories.com

Ship by:

Speedee ☐

UPS Grnd ☐

UPS 2nd ☐

UPS NDA ☒

Government UPS Shipping Acct? Y ☐ N ☐

CTLaboratories
Brett M Szymanski
1230 Lange Court
Baraboo WI 53913

Date Due: 5 - Day TAT

RUSH TURNAROUND NEEDED? Y ☐ or N ☐ (Circle One)

Project Name:

CHUDNOW METALS

Project State:

WI

Analytical/QC Criteria:

NONE INDICATED

STATE

DOD QSM

NELAP (Circle one)

OTHER

Report results as EDD? N ☐ Y ☐ (Circle one and indicate type: Basic Excel)

Data Deliverable Package LEVEL: II & IV

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method	Cost
1248293	10/12/2022 10:40	SOIL	CM-WC-SC-F3-221012	HERBICIDES	SW8151
1248295	10/12/2022 10:40	SOIL	CM-WC-SC-ST-221012	HERBICIDES	SW8151
1248296	10/12/2022 15:11	SOIL	CM-WC-SC-G1-221012	HERBICIDES	SW8151

Relinquished by: Brenda Gregory

Date/Time: 10/17/2022 10:00

Received by: Brenda Gregory

Date/Time: 10/18/2022 9:55

Receipt Temperature (C) 2.1

COMMENTS: FULL-LIST HERBICIDES. PLEASE LOG USING THE SAMPLE DESCRIPTIONS RATHER THAN THE CT LABS ID #s.

REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED



M 2 J 1 0 3 8

CT Laboratories
Rec'd: 10/18/2022 09:55
By: Brenda Gregory

Temp. 2.1 (Signature)

Form #: FPM1-01
Effective Date: 02/15/14



Work Order #

M2J1038

COOLER TEMP >6° C LOG

[illegible]

pH Lot # AA

pH

Exceptions

[illegible]

☒ NONE

AS NOTED

Big 10-18-22

Document Control # 1957
Last 04-10-2019

Issued to: Document Master File

Sub-Contract Laboratory Chain-of-Custody and Purchase Order

PURCHASE ORDER #: 172899 MICROBAC

The PO# must appear on all invoice and reports!

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.

Ship to: **Microbac**
158 Starlight Drive
Marietta, OH 45750

Return Invoice and Results to: **bszymanski@ctlaboratories.com**

Government UPS Shipping Acct ? Y **N**

Ship by: Speedee ☐ UPS Grnd ☐ UPS 2nd ☐ UPS NDA ☒

CTLaboratories
Brett M Szymanski
1230 Lange Court
Baraboo WI 53913

Date Due: 5-Day TAT **RUSH TURNAROUND NEEDED?** Y **N** (Circle One)

Project Name: CHUDNOW METALS **Project State:** WI

Analytical/QC Criteria: NONE INDICATED STATE DOD QSM **NELAP** (Circle one) OTHER _____

Report results as EDD? N **Y** (Circle one and indicate type: Basic Excel) **Data Deliverable Package LEVEL:** II & IV

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method	Cost
1248293	10/12/2022 10:40	SOIL	CM-WC-SC-F3-221012	HERBICIDES	SW8151
1248293	10/12/2022 10:40	SOIL	CM-WC-SC-F3-221012	SULFIDE, REACTIVE	SW-846 Ch. 7.3
1248295	10/12/2022 10:40	SOIL	CM-WC-SC-ST-221012	HERBICIDES	SW8151
1248295	10/12/2022 10:40	SOIL	CM-WC-SC-ST-221012	SULFIDE, REACTIVE	SW-846 Ch. 7.3
1248296	10/12/2022 15:11	SOIL	CM-WC-SC-G1-221012	HERBICIDES	SW8151
1248296	10/12/2022 15:11	SOIL	CM-WC-SC-G1-221012	SULFIDE, REACTIVE	SW-846 Ch. 7.3

Relinquished by: Brett Szymanski **Date/Time:** 10/18/2022 @ 13:53

Received by: _____ **Date/Time:** _____ **Receipt Temperature (C)** _____

COMMENTS: FULL-LIST HERBICIDES. PLEASE LOG USING THE SAMPLE DESCRIPTIONS RATHER THAN THE CT LABS ID #s.

REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED

Form #: FPM1-01
Effective Date: 02/15/14

1. ORDERS AND RECEIPT OF SAMPLES (Sample Acceptance Policy) - not applicable

2. PAYMENT TERMS

2.1 Services performed by CTL will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule . Invoices may be submitted to Client upon completion of any sample delivery group. Payment in advance is required for all Clients except those whose credit has been established with CTL. For Clients with approved credit, payment terms are net 30 days from the date of invoice by CTL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) (or the maximum rate permissible by law, whichever is lesser) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party that acknowledges and accepts payment responsibility. CTL may suspend work and withhold delivery of data under this order at any time in the event Client fails to make timely payment of its invoices . Client shall be responsible for all costs and expenses of collection including reasonable attorneyâ€™s fees. CTL reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

3. CHANGE ORDERS, TERMINATION

3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by CTL after Sample Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions . CTL will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented in writing.

3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification or acceleration in the performance of the work may be initiated by the Client after sample acceptance. Such a change will be documented in writing and may result in a change in cost and turnaround time commitment. CTL's acceptance of such changes is contingent upon technical feasibility and operational capacity.

3.3 Suspension or termination of all or any part of the work may be initiated by the Client. CTL will be compensated consistent with Section 2 of these Terms and Conditions. CTL will complete all work in progress and be paid in full for all work completed .

4. WARRANTIES AND LIABILITY

4.1 Where applicable, CTL will use analytical methodologies which are in substantial conformity with published test methods. CTL has implemented these methods in its Laboratory Quality Manuals and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, CTL reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of CTL, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or CTL's Laboratory Quality Manuals. Client may request that CTL perform according to a mutually agreed Quality Assurance Project Plan (QAPP). In the event that samples arrive prior to agreement on a QAPP, CTL will proceed with analyses under its standard Quality Manuals then in effect, and CTL will not be responsible for any resampling or other charges if work must be repeated to comply with a subsequently finalized QAPP .

4.2 CTL shall start preparation and/or analysis within holding times provided that Sample Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less. Where resolution of inconsistencies leading to Sample Acceptance does not occur within this period, CTL will use its best efforts to meet holding times and will proceed with the work provided that, in CTL's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance . Reanalysis of samples to comply with CTL's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been met.

4.3 CTL warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to CTL prior to Sample Acceptance . CTL will notify the Client in writing of any decertification or revocation of any license, or notice of either, which affects work in progress.

4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by CTL in connection with any services performed by CTL or any Results generated from such services , and CTL gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of CTL is authorized to give or make any other representation or warranty or modify this warranty in any way .

4.5 Client's sole and exclusive remedy for the breach of warranty in connection with any services performed by CTL, will be limited to repeating any services performed, contingent on the Client's providing, at the request of CTL and at the Client's expense, additional sample(s) if necessary. Any reanalysis requested by the Client generating Results consistent with the original Results will be at the Client's expense. If resampling is necessary, CTL's liability for resampling costs will be limited to actual cost or one hundred or one hundred fifty dollars (\$150) per sample, whichever is less.

4.6 CTL's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after CTL's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall CTL be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.

4.7 In no event shall CTL have any responsibility or liability to the Client for any failure or delay in performance by CTL which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of CTL. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond CTL's reasonable control.

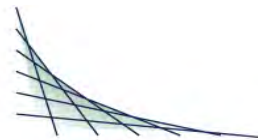
5. RESULTS, WORK PRODUCT - not applicable

6. INSURANCE

6.1 CTL shall maintain in force during the performance of services under these Terms and Conditions , Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over CTL's employees who are engaged in the performance of the work. CTL shall also maintain during such period, Comprehensive General and Contractual Liability (limit of \$2,000,000 per occurrence/ aggregate), Comprehensive Automobile Liability, owned and hired, (\$1,000,000 combined single limit), and Professional/Pollution Liability Insurance (limit of \$5,000,000 per occurrence/aggregate).Â Any Client required changes to these limits or conditions may result in a change in cost to the Client.

7. AUDIT

7.1 Upon prior notice to CTL, the Client may audit and inspect CTL's records and accounts covering reimbursable costs related to work done for the Client, for a period of one (1) year after completion of the work. The purpose of any such audit shall be only for verification of such costs, and CTL shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.



REVISED
ANALYTICAL REPORT

TETRA TECH
 RACHEL HOULE
 1 S WACKER DRIVE
 SUITE 3700
 CHICAGO, IL 60606
 Copy: R5 START LIST

Project Name: CHUDNOW METALS
 Project Phase: MILWAUKEE, WI
 Contract #: 3509
 Project #: 103X903100320001DH108
 Folder #: 173144
 Purchase Order #: 1168710 / CT-53

Page 1 of 3
 Arrival Temperature: 5.8
 Report Date: 10/28/2022
 Date Received: 10/22/2022
 Reprint Date: 12/27/2022

CT LAB#: 1252536	Sample Description: CM-WC-SC-TF3-221021	Client Sample #:	Sampled: 10/21/2022 08:24
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Metals Results

TCLP Lead	0.032	mg/L	0.0014	0.002	0.004	0.004	1.00		10/26/2022 11:50	10/27/22 16:58	NAH	EPA 6010C
-----------	-------	------	--------	-------	-------	-------	------	--	------------------	----------------	-----	-----------

CT LAB#: 1252537	Sample Description: CM-WC-SC-TF3-221021	Client Sample #:	Sampled: 10/21/2022 08:24
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	----	------------	------------	----	----	-----------	-------------------	-----------------------	---------	--------

Inorganic Results

Free Liquids	ABSENT						1.00		10/25/22 14:06	HLB	EPA 9095B	^
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CT LAB#: 1252538	Sample Description: CM-WC-SC-TST-221020	Client Sample #:	Sampled: 10/20/2022 16:51
------------------	---	------------------	---------------------------

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	----	------------	------------	----	----	-----------	-------------------	-----------------------	---------	--------

Metals Results

TCLP Lead	0.60	mg/L	0.0014	0.002	0.004	0.004	1.00		10/26/2022 11:50	10/27/22 17:45	NAH	EPA 6010C
-----------	------	------	--------	-------	-------	-------	------	--	------------------	----------------	-----	-----------

CT LAB#: 1252539	Sample Description: CM-WC-SC-TST-221020	Client Sample #:	Sampled: 10/20/2022 16:51
------------------	---	------------------	---------------------------

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	----	------------	------------	----	----	-----------	-------------------	-----------------------	---------	--------

Inorganic Results

Free Liquids	ABSENT						1.00			10/25/22 14:19	HLB	EPA 9095B	^
--------------	--------	--	--	--	--	--	------	--	--	----------------	-----	-----------	---

CT LAB#: 1252540	Sample Description: CM-WC-SC-TG1-221021	Client Sample #:	Sampled: 10/21/2022 11:55
------------------	---	------------------	---------------------------

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	----	------------	------------	----	----	-----------	-------------------	-----------------------	---------	--------

Metals Results

TCLP Lead	<0.0014	mg/L	0.0014	0.002	0.004	0.004	1.00	U	10/26/2022 11:50	10/27/22 18:14	NAH	EPA 6010C
-----------	---------	------	--------	-------	-------	-------	------	---	------------------	----------------	-----	-----------

CT LAB#: 1252541	Sample Description: CM-WC-SC-TG1-221021	Client Sample #:	Sampled: 10/21/2022 11:55
------------------	---	------------------	---------------------------

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	----	------------	------------	----	----	-----------	-------------------	-----------------------	---------	--------

Inorganic Results

Free Liquids	ABSENT						1.00			10/25/22 14:26	HLB	EPA 9095B	^
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Notes:

^ Indicates the laboratory is NELAP accredited for this analyte by the indicated matrix and method . DL (detection limit), LOD (limit of detection), loq (limit of quantitation) as defined by most recent DOD QSM version.

All samples were received intact and properly preserved unless otherwise noted . The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for the parameters where accreditation is required or available, unless noted in the case narrative.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

Reason for Revision: Data Qualifier definitions were added to the report.

QC Qualifiers	
Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 289
Louisiana NELAP (primary) ID# 115843
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01

QC Summary Report

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173144

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266553	Analysis Date:	10/25/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1254886	Analysis Time:	14:12	Prep Date/Time:	Method:	SW9095
Parent Sample #:	1252537	Analyst:	HLB	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Free Liquids	ABSENT		ABSENT					0	

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173144

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266644	Analysis Date:	10/27/2022	Prep Batch #:	127490	Matrix:	TCLP
CTLab #:	1254555	Analysis Time:	17:14	Prep Date/Time:	10/26/2022 15:48	Method:	SW6010
Parent Sample #:	1252536	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Lead	0.0333	mg/L	0.032				0.0040	4	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173144

Project #: 103X903100320001DH108

Lab Control Spike Water

Analytical Run #:	266644	Analysis Date:	10/27/2022	Prep Batch #:	127490	Matrix:	LIQUID
CTLab #:	1254554	Analysis Time:	16:44	Prep Date/Time:	10/26/2022 15:48	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Lead	0.852	mg/L			1.0	85	50 --- 150		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173144

Project #: 103X903100320001DH108

Method Blank Water

Analytical Run #:	266644	Analysis Date:	10/27/2022	Prep Batch #:	127490	Matrix:	LIQUID
CTLab #:	1254553	Analysis Time:	16:51	Prep Date/Time:	10/26/2022 15:48	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Lead	0.1	mg/L		U	0		0.1		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173144

Project #: 103X903100320001DH108

Matrix Spike Duplicate Water

Analytical Run #:	266644	Analysis Date:	10/27/2022	Prep Batch #:	127490	Matrix:	TCLP
CTLab #:	1254557	Analysis Time:	17:30	Prep Date/Time:	10/26/2022 15:48	Method:	SW6010
Parent Sample #:	1254556	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Lead	0.851	mg/L	0.032		1.0	82	50 --- 150	1	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173144

Project #: 103X903100320001DH108

Matrix Spike Water

Analytical Run #:	266644	Analysis Date:	10/27/2022	Prep Batch #:	127490	Matrix:	TCLP
CTLab #:	1254556	Analysis Time:	17:23	Prep Date/Time:	10/26/2022 15:48	Method:	SW6010
Parent Sample #:	1252536	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Lead	0.856	mg/L	0.032		1.0	82	50 --- 150		20

Sample Condition Report

Folder #:	173144	Print Date / Time:	10/22/2022	11:40
Client:	TETRA TECH	Received Date / Time / By:	10/22/2022	10:30 erc
Project Name:	CHUDNOW METALS	Log-In Date / Time / By:	10/22/2022	11:40 erc
Project Phase:	MILWAUKEE, WI	Project #:	103X903100320001DH108	PM: BMS
Coolers:	UNMARKED	Temperature:	5.8 C	On Ice: Y
Custody Seals Present :	Y	COC Present:?	Y	Complete? Y
Seal Intact?	Y	Numbers:	DATED AND SIGNED	
Ship Method:	FEDEX SAT 1ST OVRNT	Tracking Number:	7702 7377 7360	
Adequate Packaging:	Y	Temp Blank Enclosed?	Y	

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

TWO (2) CUSTODY SEALS WERE PRESENT AND INTACT UPON RECEIPT - BOTH WERE DATED 10/21/22 AND SIGNED.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1252536 CM-WC-SC-TF3-221021	SOLIDS	1	/	ICP
Total # of Containers of Type (SOLIDS) = 1				
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1252537 CM-WC-SC-TF3-221021	SOLIDS	1	/	%SOL,FLIQ
Total # of Containers of Type (SOLIDS) = 1				
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1252538 CM-WC-SC-TST-221020	SOLIDS	1	/	ICP
Total # of Containers of Type (SOLIDS) = 1				
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1252539 CM-WC-SC-TST-221020	SOLIDS	1	/	%SOL,FLIQ
Total # of Containers of Type (SOLIDS) = 1				
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1252540 CM-WC-SC-TG1-221021	SOLIDS	1	/	ICP
Total # of Containers of Type (SOLIDS) = 1				
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

SOLIDS1/ %SOL,FLIQ

Total # of Containers of Type (SOLIDS) = 1

Condition Code	Condition Description
1	Sample Received OK

Address:

listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

90,91

Cooler # XXXX

ORIGIN ID: MKEA (815) 993-8333
ALEXIA SCHOLL
TETRA TECH INC
5401 S STATE ST
MILWAUKEE WI 53208

SHIP DATE: 21OCT22
ACTWGT: 20.00 LB
CAD: 102185950/NET4530
BILL SENDER

TO DENNIS LINLEY
CT LABORATORIES, LLC
1230 LANGE CT.

BARABOO WI 53913
(608) 356-2760
INV REF 103X903100320001DH108
DEPT

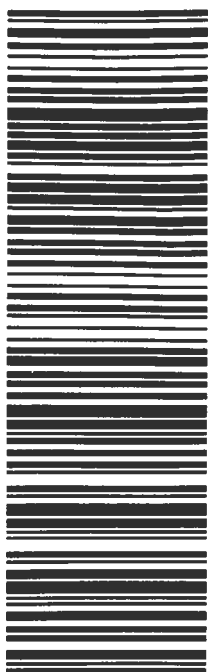


TRK# 7702 7377 7360
0201

SATURDAY 10:30A
FIRST OVERNIGHT

X0 LNRA

WI-US MSN 53913



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Use of this sy
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Service Guide
attorney's fees,
costs, and othe
authorized decl
Recovery cannot
precious metals,
negotiable instr
FedEx Service Guide.

CUSTODY SEAL

DATE

SIGNATURE

10/21/22

[Signature]

QEC

Quality Environmental Containers
800-255-3950 • 304-255-3900

CUSTODY SEAL

DATE

SIGNATURE

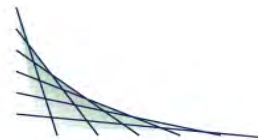
10/21/22

[Signature]

QEC

Quality Environmental Containers
800-255-3950 • 304-255-3900

Ice Present ☒ Yes ☐ No
Temperature 5.8 22.8
Em
10/21/22 Time 1030
XXX



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.



ANALYTICAL REPORT

TETRA TECH
 RACHEL HOULE
 1 S WACKER DRIVE
 SUITE 3700
 CHICAGO, IL 60606
 Copy: R5 START LIST

Project Name: CHUDNOW METALS
 Project Phase: MILWAUKEE, WI
 Contract #: 3509
 Project #: 103X903100320001DH108
 Folder #: 173145
 Purchase Order #: 1168710 / CT-51

Page 1 of 14
 Arrival Temperature: 5.8
 Report Date: 10/28/2022
 Date Received: 10/22/2022
 Reprint Date: 10/28/2022

CT LAB#: 1252542

Sample Description: CM-BF-LQ-221020

Client Sample #:

Sampled: 10/20/2022 11:04

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	97.8	%	0.1	0.1	0.1	0.1	1.00			10/24/22	12:15 TMG	EPA 8000C
pH	8.69	S.U.	0.1	0.1	0.1	0.1	1.00			10/24/22	14:40 RLB	EPA 9045D
Metals Results												
Mercury	<0.0030	mg/kg	0.0030	0.0069	0.0091	0.0091	1.00	U	10/26/2022 14:10	10/27/22	14:11 MDS	EPA 7471B
Aluminum	230	mg/kg	2.1	4.9	20	20	1.00		10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Antimony	0.44	mg/kg	0.15	0.29	0.98	0.98	1.00	J	10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Arsenic	0.78	mg/kg	0.19	0.49	0.98	0.98	1.00	J	10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Barium	1.2	mg/kg	0.051	0.20	0.49	0.49	1.00	Y	10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Beryllium	0.048	mg/kg	0.018	0.049	0.20	0.20	1.00	J	10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Cadmium	<0.026	mg/kg	0.026	0.098	0.24	0.24	1.00	U	10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Calcium	200000	mg/kg	28	78	240	240	10.00	Y,M	10/24/2022 10:09	10/25/22	15:48 NAH	EPA 6010D
Chromium	1.4	mg/kg	0.069	0.20	0.49	0.49	1.00		10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Cobalt	0.24	mg/kg	0.044	0.098	0.49	0.49	1.00	J	10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Copper	0.66	mg/kg	0.13	0.29	0.49	0.49	1.00		10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Iron	1100	mg/kg	2.9	7.3	15	15	1.00	M	10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Lead	0.37	mg/kg	0.076	0.20	0.49	0.49	1.00	J	10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1252542

Sample Description: CM-BF-LQ-221020

Client Sample #:

Sampled: 10/20/2022 11:04

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Magnesium	130000	mg/kg	36	98	240	240	10.00	Y,M	10/24/2022 10:09	10/25/22	15:48 NAH	EPA 6010D
Manganese	85	mg/kg	0.068	0.20	0.49	0.49	1.00		10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Nickel	0.94	mg/kg	0.059	0.20	0.49	0.49	1.00		10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Selenium	<0.24	mg/kg	0.24	0.49	0.98	0.98	1.00	U	10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Silver	<0.18	mg/kg	0.18	0.49	0.98	0.98	1.00	U	10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Thallium	<0.22	mg/kg	0.22	0.49	0.98	0.98	1.00	U M	10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Vanadium	2.4	mg/kg	0.050	0.20	0.49	0.49	1.00		10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Zinc	1.7	mg/kg	0.065	0.20	0.49	0.49	1.00	Y	10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Potassium	267	mg/kg	33	73	240	240	1.00		10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D
Sodium	264	mg/kg	31	98	240	240	1.00		10/24/2022 10:09	10/25/22	11:45 NAH	EPA 6010D

Organic Results

1,1'-Biphenyl	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
1,2,4,5-Tetrachlorobenzene	<100	ug/kg	100	200	410	410	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
2,4,5-Trichlorophenol	<200	ug/kg	200	510	1000	1000	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
2,4,6-Trichlorophenol	<200	ug/kg	200	510	1000	1000	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
2,4-Dichlorophenol	<240	ug/kg	240	510	1000	1000	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
2,4-Dimethylphenol	<150	ug/kg	150	510	1000	1000	1.00	U Q,Y	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
2,4-Dinitrophenol	<200	ug/kg	200	510	1000	1000	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
2,4-Dinitrotoluene	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
2,6-Dinitrotoluene	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
2-Chloronaphthalene	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
2-Chlorophenol	<150	ug/kg	150	510	1000	1000	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
2-Methylnaphthalene	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
2-Methylphenol	<200	ug/kg	200	510	1000	1000	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
2-Nitroaniline	<82	ug/kg	82	200	410	410	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
2-Nitrophenol	<310	ug/kg	310	510	1000	1000	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
3 & 4-Methylphenol	<310	ug/kg	310	1000	2000	2000	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1252542

Sample Description: CM-BF-LQ-221020

Client Sample #:

Sampled: 10/20/2022 11:04

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
3,3'-Dichlorobenzidine	<82	ug/kg	82	200	410	410	1.00	U Y	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
3-Nitroaniline	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<200	ug/kg	200	510	1000	1000	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
4-Bromophenyl-phenyl ether	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
4-Chloro-3-methylphenol	<200	ug/kg	200	510	1000	1000	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
4-Chloroaniline	<51	ug/kg	51	200	410	410	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
4-Chlorophenyl-phenyl ether	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
4-Nitroaniline	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
4-Nitrophenol	<310	ug/kg	310	510	1000	1000	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Acenaphthene	<72	ug/kg	72	200	410	410	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Acenaphthylene	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Acetophenone	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Anthracene	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Atrazine	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Benzaldehyde	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Benzo(a)anthracene	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Benzo(a)pyrene	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Benzo(b)fluoranthene	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Benzo(g,h,i)perylene	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Benzo(k)fluoranthene	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Bis(2-chloroethoxy)methane	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Bis(2-chloroethyl)ether	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Bis(2-chloroisopropyl)ether	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Bis(2-ethylhexyl)phthalate	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Butylbenzylphthalate	<82	ug/kg	82	200	410	410	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Caprolactam	<100	ug/kg	100	200	410	410	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Carbazole	<61	ug/kg	61	200	410	410	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D
Chrysene	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22 22:50	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1252542

Sample Description: CM-BF-LQ-221020

Client Sample #:

Sampled: 10/20/2022 11:04

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Di-n-butylphthalate	<100	ug/kg	100	200	410	410	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Di-n-octylphthalate	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Dibenzo(a,h)anthracene	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Dibenzofuran	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Diethylphthalate	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Dimethylphthalate	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Fluoranthene	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Fluorene	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Hexachlorobenzene	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Hexachlorobutadiene	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Hexachlorocyclopentadiene	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Hexachloroethane	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Indeno(1,2,3-cd)pyrene	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Isophorone	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
N-Nitroso-di-n-propylamine	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
N-Nitrosodiphenylamine & Diphn	<100	ug/kg	100	200	410	410	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Naphthalene	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Nitrobenzene	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Pentachlorophenol	<200	ug/kg	200	510	1000	1000	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Phenanthrene	<41	ug/kg	41	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Phenol	<200	ug/kg	200	510	1000	1000	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Pyrene	<51	ug/kg	51	100	200	200	1.00	U	10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	64.0	% Recovery	39			132	1.00		10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Surr: 2-Fluorobiphenyl	47.0	% Recovery	44			115	1.00		10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Surr: 2-Fluorophenol	52.7	% Recovery	35			115	1.00		10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Surr: Nitrobenzene-d5	46.0	% Recovery	37			122	1.00		10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Surr: Phenol-d5	50.8	% Recovery	33			122	1.00		10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D
Surr: Terphenyl-d14	67.9	% Recovery	54			127	1.00		10/25/2022 10:00	10/27/22	22:50 JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1252542

Sample Description: CM-BF-LQ-221020

Client Sample #:

Sampled: 10/20/2022 11:04

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Aroclor-1016	<17	ug/kg	17	41	61	61	1.00	U	10/25/2022 00:00	10/27/22	15:25 AJZ	EPA 8082A
Aroclor-1221	<28	ug/kg	28	61	81	81	1.00	U	10/25/2022 00:00	10/27/22	15:25 AJZ	EPA 8082A
Aroclor-1232	<11	ug/kg	11	41	61	61	1.00	U	10/25/2022 00:00	10/27/22	15:25 AJZ	EPA 8082A
Aroclor-1242	<10	ug/kg	10	41	61	61	1.00	U	10/25/2022 00:00	10/27/22	15:25 AJZ	EPA 8082A
Aroclor-1248	<14	ug/kg	14	41	61	61	1.00	U	10/25/2022 00:00	10/27/22	15:25 AJZ	EPA 8082A
Aroclor-1254	<18	ug/kg	18	41	61	61	1.00	U	10/25/2022 00:00	10/27/22	15:25 AJZ	EPA 8082A
Aroclor-1260	<11	ug/kg	11	41	61	61	1.00	U	10/25/2022 00:00	10/27/22	15:25 AJZ	EPA 8082A
Aroclor-1262	<10	ug/kg	10	41	61	61	1.00	U	10/25/2022 00:00	10/27/22	15:25 AJZ	EPA 8082A
Aroclor-1268	<17	ug/kg	17	41	61	61	1.00	U	10/25/2022 00:00	10/27/22	15:25 AJZ	EPA 8082A
PCB, Total	<28	ug/kg	28	61	81	81	1.00	U	10/25/2022 00:00	10/27/22	15:25 AJZ	EPA 8082A
Surr: 2,4,5,6-TCMX	108	% Recovery	54			135	1.00		10/25/2022 00:00	10/27/22	15:25 AJZ	EPA 8082A
Surr: DCBP	107	% Recovery	54			141	1.00		10/25/2022 00:00	10/27/22	15:25 AJZ	EPA 8082A
1,1,1-Trichloroethane	<31	ug/kg	31	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<26	ug/kg	26	51	100	100	1.00	U Z	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
1,1,2-Trichloroethane	<28	ug/kg	28	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
1,1-Dichloroethane	<28	ug/kg	28	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
1,1-Dichloroethene	<25	ug/kg	25	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
1,2,3-Trichlorobenzene	<20	ug/kg	20	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
1,2,4-Trichlorobenzene	<13	ug/kg	13	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<15	ug/kg	15	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
1,2-Dibromoethane	<18	ug/kg	18	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
1,2-Dichlorobenzene	<15	ug/kg	15	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
1,2-Dichloroethane	<22	ug/kg	22	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
1,2-Dichloropropane	<27	ug/kg	27	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
1,3-Dichlorobenzene	<14	ug/kg	14	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
1,4-Dichlorobenzene	<15	ug/kg	15	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
112Trichloro122trifluoroethane	<63	ug/kg	63	200	410	410	1.00	U Z	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
2-Butanone	<290	ug/kg	290	1000	2000	2000	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1252542

Sample Description: CM-BF-LQ-221020

Client Sample #:

Sampled: 10/20/2022 11:04

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Hexanone	<150	ug/kg	150	510	1000	1000	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
4-Methyl-2-pentanone	<310	ug/kg	310	1000	2000	2000	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Acetone	<260	ug/kg	260	510	1000	1000	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Benzene	<29	ug/kg	29	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Bromochloromethane	<32	ug/kg	32	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Bromodichloromethane	<24	ug/kg	24	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Bromoform	<15	ug/kg	15	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Bromomethane	<92	ug/kg	92	200	410	410	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Carbon disulfide	<60	ug/kg	60	200	410	410	1.00	U Z	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Carbon tetrachloride	<29	ug/kg	29	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Chlorobenzene	<13	ug/kg	13	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Chloroethane	<87	ug/kg	87	200	410	410	1.00	U M,Y	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Chloroform	<33	ug/kg	33	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Chloromethane	<34	ug/kg	34	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
cis-1,2-Dichloroethene	<31	ug/kg	31	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
cis-1,3-Dichloropropene	<30	ug/kg	30	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Cyclohexane	<32	ug/kg	32	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Dibromochloromethane	<15	ug/kg	15	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Dichlorodifluoromethane	<32	ug/kg	32	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Ethylbenzene	<13	ug/kg	13	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Isopropylbenzene	<13	ug/kg	13	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
m & p-Xylene	<26	ug/kg	26	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Methyl acetate	<41	ug/kg	41	100	200	200	1.00	U M	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Methyl tert-butyl ether	<25	ug/kg	25	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Methylcyclohexane	<30	ug/kg	30	100	200	200	1.00	U Z	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Methylene chloride	<43	ug/kg	43	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
o-Xylene	<13	ug/kg	13	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Styrene	<20	ug/kg	20	51	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1252542

Sample Description: CM-BF-LQ-221020

Client Sample #:

Sampled: 10/20/2022 11:04

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Tetrachloroethene	<35	ug/kg	35	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Toluene	<29	ug/kg	29	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
trans-1,2-Dichloroethene	<30	ug/kg	30	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
trans-1,3-Dichloropropene	<27	ug/kg	27	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Trichloroethene	<31	ug/kg	31	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Trichlorofluoromethane	<31	ug/kg	31	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Vinyl chloride	<31	ug/kg	31	100	200	200	1.00	U	10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
1,2 Dichloroethane-d4	104	% Recovery	71			136	1.00		10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Bromofluorobenzene	95.0	% Recovery	79			119	1.00		10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
d8-Toluene	99.0	% Recovery	85			116	1.00		10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C
Dibromofluoromethane	101	% Recovery	78			119	1.00		10/22/2022 19:20	10/25/22	13:30 RLD	EPA 8260C

CT LAB#: 1252543

Sample Description: CM-BF-LP-221020

Client Sample #:

Sampled: 10/20/2022 11:27

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	95.2	%	0.1	0.1	0.1	0.1	1.00			10/24/22	12:15 TMG	EPA 8000C
pH	8.60	S.U.	0.1	0.1	0.1	0.1	1.00			10/24/22	14:40 RLB	EPA 9045D
Metals Results												
Mercury	<0.0030	mg/kg	0.0030	0.0070	0.0092	0.0092	1.00	U	10/26/2022 14:10	10/27/22	14:14 MDS	EPA 7471B
Aluminum	690	mg/kg	2.3	5.5	22	22	1.00		10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Antimony	0.17	mg/kg	0.16	0.33	1.1	1.1	1.00	J	10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Arsenic	0.79	mg/kg	0.21	0.55	1.1	1.1	1.00	J	10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Barium	3.7	mg/kg	0.057	0.22	0.55	0.55	1.00		10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Beryllium	<0.020	mg/kg	0.020	0.055	0.22	0.22	1.00	U	10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1252543

Sample Description: CM-BF-LP-221020

Client Sample #:

Sampled: 10/20/2022 11:27

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Cadmium	0.063	mg/kg	0.030	0.11	0.27	0.27	1.00	J	10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Calcium	160000	mg/kg	32	88	270	270	10.00		10/24/2022 10:09	10/25/22	15:56 NAH	EPA 6010D
Chromium	2.4	mg/kg	0.078	0.22	0.55	0.55	1.00		10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Cobalt	0.97	mg/kg	0.049	0.11	0.55	0.55	1.00		10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Copper	2.9	mg/kg	0.14	0.33	0.55	0.55	1.00		10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Iron	2800	mg/kg	3.3	8.2	16	16	1.00		10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Lead	1.4	mg/kg	0.085	0.22	0.55	0.55	1.00		10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Magnesium	90000	mg/kg	40	110	270	270	10.00		10/24/2022 10:09	10/25/22	15:56 NAH	EPA 6010D
Manganese	180	mg/kg	0.077	0.22	0.55	0.55	1.00		10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Nickel	2.3	mg/kg	0.066	0.22	0.55	0.55	1.00		10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Selenium	<0.27	mg/kg	0.27	0.55	1.1	1.1	1.00	U	10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Silver	<0.20	mg/kg	0.20	0.55	1.1	1.1	1.00	U	10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Thallium	<0.24	mg/kg	0.24	0.55	1.1	1.1	1.00	U	10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Vanadium	4.9	mg/kg	0.056	0.22	0.55	0.55	1.00		10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Zinc	11	mg/kg	0.072	0.22	0.55	0.55	1.00		10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Potassium	243	mg/kg	37	82	270	270	1.00	J	10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D
Sodium	215	mg/kg	35	110	270	270	1.00	J	10/24/2022 10:09	10/25/22	12:51 NAH	EPA 6010D

Organic Results

1,1'-Biphenyl	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22	22:27 JJY	EPA 8270D
1,2,4,5-Tetrachlorobenzene	<100	ug/kg	100	210	420	420	1.00	U	10/25/2022 10:00	10/27/22	22:27 JJY	EPA 8270D
2,4,5-Trichlorophenol	<210	ug/kg	210	520	1000	1000	1.00	U	10/25/2022 10:00	10/27/22	22:27 JJY	EPA 8270D
2,4,6-Trichlorophenol	<210	ug/kg	210	520	1000	1000	1.00	U	10/25/2022 10:00	10/27/22	22:27 JJY	EPA 8270D
2,4-Dichlorophenol	<240	ug/kg	240	520	1000	1000	1.00	U	10/25/2022 10:00	10/27/22	22:27 JJY	EPA 8270D
2,4-Dimethylphenol	<160	ug/kg	160	520	1000	1000	1.00	U Q	10/25/2022 10:00	10/27/22	22:27 JJY	EPA 8270D
2,4-Dinitrophenol	<210	ug/kg	210	520	1000	1000	1.00	U	10/25/2022 10:00	10/27/22	22:27 JJY	EPA 8270D
2,4-Dinitrotoluene	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22	22:27 JJY	EPA 8270D
2,6-Dinitrotoluene	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22	22:27 JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1252543

Sample Description: CM-BF-LP-221020

Client Sample #:

Sampled: 10/20/2022 11:27

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Chloronaphthalene	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
2-Chlorophenol	<160	ug/kg	160	520	1000	1000	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
2-Methylnaphthalene	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
2-Methylphenol	<210	ug/kg	210	520	1000	1000	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
2-Nitroaniline	<83	ug/kg	83	210	420	420	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
2-Nitrophenol	<310	ug/kg	310	520	1000	1000	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
3 & 4-Methylphenol	<310	ug/kg	310	1000	2100	2100	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
3,3'-Dichlorobenzidine	<83	ug/kg	83	210	420	420	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
3-Nitroaniline	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<210	ug/kg	210	520	1000	1000	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
4-Bromophenyl-phenyl ether	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
4-Chloro-3-methylphenol	<210	ug/kg	210	520	1000	1000	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
4-Chloroaniline	<52	ug/kg	52	210	420	420	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
4-Chlorophenyl-phenyl ether	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
4-Nitroaniline	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
4-Nitrophenol	<310	ug/kg	310	520	1000	1000	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Acenaphthene	<73	ug/kg	73	210	420	420	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Acenaphthylene	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Acetophenone	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Anthracene	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Atrazine	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Benzaldehyde	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Benzo(a)anthracene	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Benzo(a)pyrene	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Benzo(b)fluoranthene	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Benzo(g,h,i)perylene	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Benzo(k)fluoranthene	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Bis(2-chloroethoxy)methane	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1252543

Sample Description: CM-BF-LP-221020

Client Sample #:

Sampled: 10/20/2022 11:27

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bis(2-chloroethyl)ether	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Bis(2-chloroisopropyl)ether	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Bis(2-ethylhexyl)phthalate	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Butylbenzylphthalate	<83	ug/kg	83	210	420	420	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Caprolactam	<100	ug/kg	100	210	420	420	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Carbazole	<62	ug/kg	62	210	420	420	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Chrysene	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Di-n-butylphthalate	<100	ug/kg	100	210	420	420	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Di-n-octylphthalate	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Dibenzo(a,h)anthracene	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Dibenzofuran	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Diethylphthalate	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Dimethylphthalate	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Fluoranthene	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Fluorene	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Hexachlorobenzene	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Hexachlorobutadiene	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Hexachlorocyclopentadiene	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Hexachloroethane	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Indeno(1,2,3-cd)pyrene	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Isophorone	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
N-Nitroso-di-n-propylamine	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
N-Nitrosodiphenylamine & Diphn	<100	ug/kg	100	210	420	420	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Naphthalene	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Nitrobenzene	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Pentachlorophenol	<210	ug/kg	210	520	1000	1000	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Phenanthrene	<42	ug/kg	42	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Phenol	<210	ug/kg	210	520	1000	1000	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1252543

Sample Description: CM-BF-LP-221020

Client Sample #:

Sampled: 10/20/2022 11:27

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Pyrene	<52	ug/kg	52	100	210	210	1.00	U	10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	74.5	% Recovery	39			132	1.00		10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Surr: 2-Fluorobiphenyl	51.2	% Recovery	44			115	1.00		10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Surr: 2-Fluorophenol	57.0	% Recovery	35			115	1.00		10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Surr: Nitrobenzene-d5	47.1	% Recovery	37			122	1.00		10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Surr: Phenol-d5	54.4	% Recovery	33			122	1.00		10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Surr: Terphenyl-d14	80.1	% Recovery	54			127	1.00		10/25/2022 10:00	10/27/22 22:27	JJY	EPA 8270D
Aroclor-1016	<18	ug/kg	18	42	63	63	1.00	U	10/25/2022 00:00	10/27/22 15:03	AJZ	EPA 8082A
Aroclor-1221	<29	ug/kg	29	63	84	84	1.00	U	10/25/2022 00:00	10/27/22 15:03	AJZ	EPA 8082A
Aroclor-1232	<12	ug/kg	12	42	63	63	1.00	U	10/25/2022 00:00	10/27/22 15:03	AJZ	EPA 8082A
Aroclor-1242	<10	ug/kg	10	42	63	63	1.00	U	10/25/2022 00:00	10/27/22 15:03	AJZ	EPA 8082A
Aroclor-1248	<15	ug/kg	15	42	63	63	1.00	U	10/25/2022 00:00	10/27/22 15:03	AJZ	EPA 8082A
Aroclor-1254	<19	ug/kg	19	42	63	63	1.00	U	10/25/2022 00:00	10/27/22 15:03	AJZ	EPA 8082A
Aroclor-1260	<12	ug/kg	12	42	63	63	1.00	U	10/25/2022 00:00	10/27/22 15:03	AJZ	EPA 8082A
Aroclor-1262	<10	ug/kg	10	42	63	63	1.00	U	10/25/2022 00:00	10/27/22 15:03	AJZ	EPA 8082A
Aroclor-1268	<18	ug/kg	18	42	63	63	1.00	U	10/25/2022 00:00	10/27/22 15:03	AJZ	EPA 8082A
PCB, Total	<29	ug/kg	29	63	84	84	1.00	U	10/25/2022 00:00	10/27/22 15:03	AJZ	EPA 8082A
Surr: 2,4,5,6-TCMX	103	% Recovery	54			135	1.00		10/25/2022 00:00	10/27/22 15:03	AJZ	EPA 8082A
Surr: DCBP	97.0	% Recovery	54			141	1.00		10/25/2022 00:00	10/27/22 15:03	AJZ	EPA 8082A
1,1,1-Trichloroethane	<31	ug/kg	31	100	210	210	1.00	U	10/22/2022 19:20	10/25/22 13:58	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<26	ug/kg	26	52	100	100	1.00	U Z	10/22/2022 19:20	10/25/22 13:58	RLD	EPA 8260C
1,1,2-Trichloroethane	<28	ug/kg	28	100	210	210	1.00	U	10/22/2022 19:20	10/25/22 13:58	RLD	EPA 8260C
1,1-Dichloroethane	<28	ug/kg	28	100	210	210	1.00	U	10/22/2022 19:20	10/25/22 13:58	RLD	EPA 8260C
1,1-Dichloroethene	<25	ug/kg	25	52	100	100	1.00	U	10/22/2022 19:20	10/25/22 13:58	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<21	ug/kg	21	52	100	100	1.00	U	10/22/2022 19:20	10/25/22 13:58	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<14	ug/kg	14	52	100	100	1.00	U	10/22/2022 19:20	10/25/22 13:58	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<16	ug/kg	16	52	100	100	1.00	U	10/22/2022 19:20	10/25/22 13:58	RLD	EPA 8260C
1,2-Dibromoethane	<19	ug/kg	19	52	100	100	1.00	U	10/22/2022 19:20	10/25/22 13:58	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1252543

Sample Description: CM-BF-LP-221020

Client Sample #:

Sampled: 10/20/2022 11:27

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichlorobenzene	<16	ug/kg	16	52	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
1,2-Dichloroethane	<23	ug/kg	23	52	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
1,2-Dichloropropane	<27	ug/kg	27	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
1,3-Dichlorobenzene	<15	ug/kg	15	52	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
1,4-Dichlorobenzene	<16	ug/kg	16	52	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
112Trichloro122trifluoroethane	<65	ug/kg	65	210	420	420	1.00	U Z	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
2-Butanone	<290	ug/kg	290	1000	2100	2100	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
2-Hexanone	<160	ug/kg	160	520	1000	1000	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
4-Methyl-2-pentanone	<310	ug/kg	310	1000	2100	2100	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Acetone	<260	ug/kg	260	520	1000	1000	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Benzene	<29	ug/kg	29	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Bromochloromethane	<33	ug/kg	33	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Bromodichloromethane	<24	ug/kg	24	52	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Bromoform	<16	ug/kg	16	52	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Bromomethane	<94	ug/kg	94	210	420	420	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Carbon disulfide	<62	ug/kg	62	210	420	420	1.00	U Z	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Carbon tetrachloride	<29	ug/kg	29	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Chlorobenzene	<14	ug/kg	14	52	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Chloroethane	<89	ug/kg	89	210	420	420	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Chloroform	<34	ug/kg	34	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Chloromethane	<35	ug/kg	35	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
cis-1,2-Dichloroethene	<31	ug/kg	31	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
cis-1,3-Dichloropropene	<30	ug/kg	30	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Cyclohexane	<33	ug/kg	33	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Dibromochloromethane	<16	ug/kg	16	52	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Dichlorodifluoromethane	<33	ug/kg	33	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Ethylbenzene	<14	ug/kg	14	52	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Isopropylbenzene	<14	ug/kg	14	52	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 1252543

Sample Description: CM-BF-LP-221020

Client Sample #:

Sampled: 10/20/2022 11:27

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
m & p-Xylene	<26	ug/kg	26	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Methyl acetate	<42	ug/kg	42	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Methyl tert-butyl ether	<25	ug/kg	25	52	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Methylcyclohexane	<30	ug/kg	30	100	210	210	1.00	U Z	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Methylene chloride	<44	ug/kg	44	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
o-Xylene	<14	ug/kg	14	52	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Styrene	<21	ug/kg	21	52	100	100	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Tetrachloroethene	<36	ug/kg	36	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Toluene	<29	ug/kg	29	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
trans-1,2-Dichloroethene	<30	ug/kg	30	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
trans-1,3-Dichloropropene	<27	ug/kg	27	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Trichloroethene	<31	ug/kg	31	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Trichlorofluoromethane	<31	ug/kg	31	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Vinyl chloride	<31	ug/kg	31	100	210	210	1.00	U	10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	71			136	1.00		10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Bromofluorobenzene	94.0	% Recovery	79			119	1.00		10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
d8-Toluene	99.0	% Recovery	85			116	1.00		10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	78			119	1.00		10/22/2022 19:20	10/25/22	13:58 RLD	EPA 8260C

Notes:

^ Indicates the laboratory is NELAP accredited for this analyte by the indicated matrix and method . DL (detection limit), LOD (limit of detection), loq (limit of quantitation) as defined by most recent DOD QSM version.

All samples were received intact and properly preserved unless otherwise noted . The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for the parameters where accreditation is required or available, unless noted in the case narrative.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers		Current CT Laboratories Certifications
Code	Description	
B	Analyte detected in the associated Method Blank.	Wisconsin (WDNR) Chemistry ID# 157066030 Wisconsin (DATCP) Bacteriology ID# 289 Louisiana NELAP (primary) ID# 115843 Illinois NELAP Lab ID# 200073 Kansas NELAP Lab ID# E-10368 Virginia NELAP Lab ID# 460203 ISO/IEC 17025-2005 A2LA Cert # 3806.01 DoD-ELAP A2LA 3806.01
C	Toxicity present in BOD sample.	
D	Diluted Out.	
E	Safe, No Total Coliform detected.	
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	
H	Holding time exceeded.	
I	Incubator temperature was outside acceptance limits during test period.	
J	Estimated value.	
L	Significant peaks were detected outside the chromatographic window.	
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	
N	Insufficient BOD oxygen depletion.	
O	Complete BOD oxygen depletion.	
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	
Q	Laboratory Control Sample outside acceptance limits.	
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Y	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

QC Summary Report

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266517	Analysis Date:	10/24/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1254007	Analysis Time:	12:15	Prep Date/Time:	Method:	SW8000C
Parent Sample #:	1252543	Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Solids, Percent	95.2	%	95.2					0	8

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266523	Analysis Date:	10/24/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1253753	Analysis Time:	14:40	Prep Date/Time:	Method:	SW9045C
Parent Sample #:	1252543	Analyst:	RLB	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
pH	8.58	S.U.	8.60					0	1

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266515	Analysis Date:	10/25/2022	Prep Batch #:	127404	Matrix:	SOIL
CTLab #:	1252719	Analysis Time:	12:01	Prep Date/Time:	10/24/2022 10:09	Method:	SW6010
Parent Sample #:	1252542	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	212	mg/kg	267				10	23	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266515	Analysis Date:	10/25/2022	Prep Batch #:	127404	Matrix:	SOIL
CTLab #:	1252719	Analysis Time:	12:01	Prep Date/Time:	10/24/2022 10:09	Method:	SW6010
Parent Sample #:	1252542	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	233	mg/kg	264				10	12	20

Duplicate

Analytical Run #:	266515	Analysis Date:	10/25/2022	Prep Batch #:	127404	Matrix:	SOIL
CTLab #:	1252719	Analysis Time:	12:01	Prep Date/Time:	10/24/2022 10:09	Method:	SW6010
Parent Sample #:	1252542	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	210	mg/kg	230				800	9	20
Antimony	0.437	mg/kg	0.44				40	1	20
Arsenic	0.381	mg/kg	0.78				40	69	20
Barium	0.951	mg/kg	1.2				20	23	20
Beryllium	0.0283	mg/kg	0.048				8	52	20
Cadmium	0.0286	mg/kg	<0.0286	U			10	0	20
Calcium	142000	mg/kg	200000				1000	34	20
Chromium	1.46	mg/kg	1.4				20	4	20
Cobalt	0.218	mg/kg	0.24				20	10	20
Copper	0.490	mg/kg	0.66				20	30	20
Iron	970	mg/kg	1100				600	13	20
Lead	0.400	mg/kg	0.37				20	8	20
Magnesium	101000	mg/kg	130000				1000	25	20
Manganese	79.2	mg/kg	85				20	7	20
Nickel	0.914	mg/kg	0.94				20	3	20
Selenium	0.265	mg/kg	<0.265	U			40	0	20
Silver	0.191	mg/kg	<0.191	U			40	0	20
Thallium	0.233	mg/kg	<0.233	U			40	0	20
Vanadium	2.20	mg/kg	2.4				20	9	20
Zinc	1.32	mg/kg	1.7				20	25	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	266515	Analysis Date:	10/25/2022	Prep Batch #:	127404	Matrix:	SOLID
CTLab #:	1252718	Analysis Time:	11:30	Prep Date/Time:	10/24/2022 10:09	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	2700	mg/kg			2500	108	81 --- 116		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	266515	Analysis Date:	10/25/2022	Prep Batch #:	127404	Matrix:	SOLID
CTLab #:	1252718	Analysis Time:	11:30	Prep Date/Time:	10/24/2022 10:09	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2370	mg/kg			2500	95	83 --- 118		

Lab Control Spike Soil

Analytical Run #:	266515	Analysis Date:	10/25/2022	Prep Batch #:	127404	Matrix:	SOLID
CTLab #:	1252718	Analysis Time:	11:30	Prep Date/Time:	10/24/2022 10:09	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	97.5	mg/kg			100	98	74 --- 119		
Antimony	24.6	mg/kg			25.0	98	79 --- 114		
Arsenic	97.3	mg/kg			100	97	82 --- 111		
Barium	92.8	mg/kg			100	93	83 --- 113		
Beryllium	2.34	mg/kg			2.50	94	83 --- 113		
Cadmium	2.32	mg/kg			2.50	93	82 --- 113		
Calcium	4630	mg/kg			5000	93	81 --- 116		
Chromium	9.25	mg/kg			10.0	92	85 --- 113		
Cobalt	23.9	mg/kg			25.0	96	85 --- 112		
Copper	11.6	mg/kg			12.5	93	81 --- 117		
Iron	49.0	mg/kg			50.0	98	81 --- 118		
Lead	22.4	mg/kg			25.0	90	81 --- 112		
Magnesium	2440	mg/kg			2500	98	78 --- 115		
Manganese	22.8	mg/kg			25.0	91	84 --- 114		
Nickel	24.4	mg/kg			25.0	98	83 --- 113		
Selenium	94.8	mg/kg			100	95	78 --- 111		
Silver	2.19	mg/kg			2.50	88	82 --- 112		
Thallium	92.3	mg/kg			100	92	83 --- 111		
Vanadium	23.9	mg/kg			25.0	96	82 --- 114		
Zinc	24.6	mg/kg			25.0	98	82 --- 113		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	266515	Analysis Date:	10/25/2022	Prep Batch #:	127404	Matrix:	SOLID
CTLab #:	1252717	Analysis Time:	11:37	Prep Date/Time:	10/24/2022 10:09	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	34	mg/kg		U	0		125		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	266515	Analysis Date:	10/25/2022	Prep Batch #:	127404	Matrix:	SOLID
CTLab #:	1252717	Analysis Time:	11:37	Prep Date/Time:	10/24/2022 10:09	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	32	mg/kg		U	0		125		

Method Blank Soil

Analytical Run #:	266515	Analysis Date:	10/25/2022	Prep Batch #:	127404	Matrix:	SOLID
CTLab #:	1252717	Analysis Time:	11:37	Prep Date/Time:	10/24/2022 10:09	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	2.1	mg/kg		U	0		10		
Antimony	0.15	mg/kg		U	0		0.50		
Arsenic	0.19	mg/kg		U	0		0.50		
Barium	0.052	mg/kg		U	0		0.25		
Beryllium	0.018	mg/kg		U	0		0.10		
Cadmium	0.027	mg/kg		U	0		0.13		
Calcium	2.9	mg/kg		U	0		13		
Chromium	0.071	mg/kg		U	0		0.25		
Cobalt	0.045	mg/kg		U	0		0.25		
Copper	0.13	mg/kg		U	0		0.25		
Iron	3.0	mg/kg		U	0		7.5		
Lead	0.078	mg/kg		U	0		0.25		
Magnesium	3.7	mg/kg		U	0		13		
Manganese	0.070	mg/kg		U	0		0.25		
Nickel	0.060	mg/kg		U	0		0.25		
Selenium	0.25	mg/kg		U	0		0.50		
Silver	0.18	mg/kg		U	0		0.50		
Thallium	0.22	mg/kg		U	0		0.50		
Vanadium	0.051	mg/kg		U	0		0.25		
Zinc	0.066	mg/kg		U	0		0.25		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Matrix Spike Duplicate Soil

Analytical Run #:	266515	Analysis Date:	10/25/2022	Prep Batch #:	127404	Matrix:	SOIL
CTLab #:	1252721	Analysis Time:	12:36	Prep Date/Time:	10/24/2022 10:09	Method:	SW6010
Parent Sample #:	1252720	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	3400	mg/kg	267		2560	122	81 --- 116	5	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Matrix Spike Duplicate Soil

Analytical Run #:	266515	Analysis Date:	10/25/2022	Prep Batch #:	127404	Matrix:	SOIL
CTLab #:	1252721	Analysis Time:	12:36	Prep Date/Time:	10/24/2022 10:09	Method:	SW6010
Parent Sample #:	1252720	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	2990	mg/kg	264		2560	106	83 --- 118	4	20

Matrix Spike Duplicate Soil

Analytical Run #:	266515	Analysis Date:	10/25/2022	Prep Batch #:	127404	Matrix:	SOIL
CTLab #:	1252721	Analysis Time:	12:36	Prep Date/Time:	10/24/2022 10:09	Method:	SW6010
Parent Sample #:	1252720	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	491	mg/kg	230		102	256	74 --- 119	6	20
Antimony	25.5	mg/kg	0.44		25.6	98	79 --- 114	4	20
Arsenic	112	mg/kg	0.78		102	109	82 --- 111	5	20
Barium	98.7	mg/kg	1.2		102	96	83 --- 113	4	20
Beryllium	2.14	mg/kg	0.048		2.56	82	83 --- 113	4	20
Cadmium	3.60	mg/kg	BDL		2.56	141	82 --- 113	57	20
Calcium	156000	mg/kg	200000		5110	0	81 --- 116	8	20
Chromium	10.1	mg/kg	1.4		10.2	85	85 --- 113	4	20
Cobalt	21.8	mg/kg	0.24		25.6	84	85 --- 112	3	20
Copper	13.1	mg/kg	0.66		12.8	97	81 --- 117	5	20
Iron	1090	mg/kg	1100		51.1	0	81 --- 118	0	20
Lead	19.7	mg/kg	0.37		25.6	76	81 --- 112	4	20
Magnesium	110000	mg/kg	130000		2560	0	78 --- 115	8	20
Manganese	107	mg/kg	85		25.6	86	84 --- 114	3	20
Nickel	22.4	mg/kg	0.94		25.6	84	83 --- 113	3	20
Selenium	99.4	mg/kg	BDL		102	97	78 --- 111	4	20
Silver	2.61	mg/kg	BDL		2.56	102	82 --- 112	4	20
Thallium	69.5	mg/kg	BDL		102	68	83 --- 111	2	20
Vanadium	24.3	mg/kg	2.4		25.6	86	82 --- 114	3	20
Zinc	23.0	mg/kg	1.7		25.6	83	82 --- 113	3	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Matrix Spike Soil

Analytical Run #:	266515	Analysis Date:	10/25/2022	Prep Batch #:	127404	Matrix:	SOIL
CTLab #:	1252720	Analysis Time:	12:29	Prep Date/Time:	10/24/2022 10:09	Method:	SW6010
Parent Sample #:	1252542	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Potassium	3410	mg/kg	267		2710	116	81 --- 116		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Matrix Spike Soil

Analytical Run #:	266515	Analysis Date:	10/25/2022	Prep Batch #:	127404	Matrix:	SOIL
CTLab #:	1252720	Analysis Time:	12:29	Prep Date/Time:	10/24/2022 10:09	Method:	SW6010
Parent Sample #:	1252542	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sodium	3030	mg/kg	264		2710	102	83 --- 118		20

Matrix Spike Soil

Analytical Run #:	266515	Analysis Date:	10/25/2022	Prep Batch #:	127404	Matrix:	SOIL
CTLab #:	1252720	Analysis Time:	12:29	Prep Date/Time:	10/24/2022 10:09	Method:	SW6010
Parent Sample #:	1252542	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aluminum	487	mg/kg	230		108	238	74 --- 119		20
Antimony	26.0	mg/kg	0.44		27.1	94	79 --- 114		20
Arsenic	113	mg/kg	0.78		108	104	82 --- 111		20
Barium	100	mg/kg	1.2		108	91	83 --- 113		20
Beryllium	2.19	mg/kg	0.048		2.71	79	83 --- 113		20
Cadmium	2.11	mg/kg	BDL		2.71	78	82 --- 113		20
Calcium	153000	mg/kg	200000		5410	0	81 --- 116		20
Chromium	10.3	mg/kg	1.4		10.8	82	85 --- 113		20
Cobalt	22.3	mg/kg	0.24		27.1	81	85 --- 112		20
Copper	13.1	mg/kg	0.66		13.5	92	81 --- 117		20
Iron	1160	mg/kg	1100		54.1	111	81 --- 118		20
Lead	20.0	mg/kg	0.37		27.1	72	81 --- 112		20
Magnesium	108000	mg/kg	130000		2710	0	78 --- 115		20
Manganese	109	mg/kg	85		27.1	89	84 --- 114		20
Nickel	23.0	mg/kg	0.94		27.1	81	83 --- 113		20
Selenium	101	mg/kg	BDL		108	94	78 --- 111		20
Silver	2.64	mg/kg	BDL		2.71	97	82 --- 112		20
Thallium	72.2	mg/kg	BDL		108	67	83 --- 111		20
Vanadium	26.4	mg/kg	2.4		27.1	89	82 --- 114		20
Zinc	23.6	mg/kg	1.7		27.1	81	82 --- 113		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266670	Analysis Date:	10/27/2022	Prep Batch #:	127411	Matrix:	SOIL
CTLab #:	1252803	Analysis Time:	14:17	Prep Date/Time:	10/26/2022 14:10	Method:	SW7471B
Parent Sample #:	1252542	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00301	mg/kg	<0.00301 U				0.20	0	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	266670	Analysis Date:	10/27/2022	Prep Batch #:	127411	Matrix:	SOLID
CTLab #:	1252802	Analysis Time:	14:02	Prep Date/Time:	10/26/2022 14:10	Method:	SW7471B
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.080	mg/kg			0.083	96	82 --- 124		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	266670	Analysis Date:	10/27/2022	Prep Batch #:	127411	Matrix:	SOLID
CTLab #:	1252801	Analysis Time:	14:08	Prep Date/Time:	10/26/2022 14:10	Method:	SW7471B
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.0027	mg/kg		U	0		1.00415		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Matrix Spike Duplicate Soil

Analytical Run #:	266670	Analysis Date:	10/27/2022	Prep Batch #:	127411	Matrix:	SOIL
CTLab #:	1252805	Analysis Time:	14:27	Prep Date/Time:	10/26/2022 14:10	Method:	SW7471B
Parent Sample #:	1252804	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.088	mg/kg	BDL		0.093	95	82 --- 124	2	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Matrix Spike Soil

Analytical Run #:	266670	Analysis Date:	10/27/2022	Prep Batch #:	127411	Matrix:	SOIL
CTLab #:	1252804	Analysis Time:	14:24	Prep Date/Time:	10/26/2022 14:10	Method:	SW7471B
Parent Sample #:	1252542	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.089	mg/kg	BDL		0.091	98	82 --- 124		20

Lab Control Spike Soil

Analytical Run #:	266477	Analysis Date:	10/25/2022	Prep Batch #:	127379	Matrix:	SOLID
CTLab #:	1252545	Analysis Time:	12:04	Prep Date/Time:	10/22/2022 19:20	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	537	ug/kg			500	107	73 --- 130		20
1,1,2,2-Tetrachloroethane	481	ug/kg			500	96	70 --- 124		20
1,1,2-Trichloroethane	523	ug/kg			500	105	78 --- 121		20
1,1-Dichloroethane	506	ug/kg			500	101	76 --- 125		20
1,1-Dichloroethene	566	ug/kg			500	113	70 --- 131		20
1,2,3-Trichlorobenzene	523	ug/kg			500	105	66 --- 130		20
1,2,4-Trichlorobenzene	543	ug/kg			500	109	67 --- 129		20
1,2-Dibromo-3-chloropropane	493	ug/kg			500	99	61 --- 132		20
1,2-Dibromoethane	493	ug/kg			500	99	78 --- 122		20
1,2-Dichlorobenzene	488	ug/kg			500	98	78 --- 121		20
1,2-Dichloroethane	477	ug/kg			500	95	73 --- 128		20
1,2-Dichloropropane	501	ug/kg			500	100	76 --- 123		20
1,3-Dichlorobenzene	486	ug/kg			500	97	77 --- 121		20
1,4-Dichlorobenzene	473	ug/kg			500	95	75 --- 120		20
112Trichloro122trifluoroethane	1190	ug/kg			1000	119	66 --- 136		20
2-Butanone	5200	ug/kg			5000	104	51 --- 148		20
2-Hexanone	4970	ug/kg			5000	99	53 --- 145		20
4-Methyl-2-pentanone	5220	ug/kg			5000	104	65 --- 135		20
Acetone	5230	ug/kg			5000	105	36 --- 164		20
Benzene	525	ug/kg			500	105	77 --- 121		20
Bromochloromethane	512	ug/kg			500	102	78 --- 125		20
Bromodichloromethane	543	ug/kg			500	109	75 --- 127		20
Bromoform	512	ug/kg			500	102	67 --- 132		20
Bromomethane	576	ug/kg			500	115	53 --- 143		20
Carbon disulfide	1150	ug/kg			1000	115	63 --- 132		20
Carbon tetrachloride	519	ug/kg			500	104	70 --- 135		20
Chlorobenzene	493	ug/kg			500	99	79 --- 120		20
Chloroethane	570	ug/kg			500	114	59 --- 139		20
Chloroform	512	ug/kg			500	102	78 --- 123		20
Chloromethane	510	ug/kg			500	102	50 --- 136		20
cis-1,2-Dichloroethene	517	ug/kg			500	103	77 --- 123		20
cis-1,3-Dichloropropene	536	ug/kg			500	107	74 --- 126		20
Cyclohexane	562	ug/kg			500	112	67 --- 131		20
Dibromochloromethane	502	ug/kg			500	100	74 --- 126		20
Dichlorodifluoromethane	592	ug/kg			500	118	29 --- 149		20
Ethylbenzene	499	ug/kg			500	100	76 --- 122		20
Isopropylbenzene	512	ug/kg			500	102	68 --- 134		20
m & p-Xylene	1010	ug/kg			1000	101	77 --- 124		20
Methyl acetate	573	ug/kg			500	115	53 --- 144		20
Methyl tert-butyl ether	501	ug/kg			500	100	73 --- 125		20
Methylcyclohexane	561	ug/kg			500	112	66 --- 133		20
Methylene chloride	503	ug/kg			500	101	70 --- 128		20
Naphthalene	514	ug/kg			500	103	62 --- 129		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Lab Control Spike Soil

Analytical Run #:	266477	Analysis Date:	10/25/2022	Prep Batch #:	127379	Matrix:	SOLID
CTLab #:	1252545	Analysis Time:	12:04	Prep Date/Time:	10/22/2022 19:20	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
o-Xylene	491	ug/kg			500	98	77 --- 123		20
Styrene	508	ug/kg			500	102	76 --- 124		20
Tetrachloroethene	531	ug/kg			500	106	73 --- 128		20
Toluene	511	ug/kg			500	102	77 --- 121		20
trans-1,2-Dichloroethene	533	ug/kg			500	107	74 --- 125		20
trans-1,3-Dichloropropene	501	ug/kg			500	100	71 --- 130		20
Trichloroethene	515	ug/kg			500	103	77 --- 123		20
Trichlorofluoromethane	604	ug/kg			500	121	62 --- 140		20
Vinyl chloride	569	ug/kg			500	114	56 --- 135		20

Method Blank Soil

Analytical Run #:	266477	Analysis Date:	10/25/2022	Prep Batch #:	127379	Matrix:	SOLID
CTLab #:	1252544	Analysis Time:	13:02	Prep Date/Time:	10/22/2022 19:20	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	30	ug/kg		U	0		100		
1,1,2,2-Tetrachloroethane	25	ug/kg		U	0		50		
1,1,2-Trichloroethane	27	ug/kg		U	0		100		
1,1-Dichloroethane	27	ug/kg		U	0		100		
1,1-Dichloroethene	24	ug/kg		U	0		50		
1,2,3-Trichlorobenzene	20	ug/kg		U	0		50		
1,2,4-Trichlorobenzene	13	ug/kg		U	0		50		
1,2-Dibromo-3-chloropropane	15	ug/kg		U	0		50		
1,2-Dibromoethane	18	ug/kg		U	0		50		
1,2-Dichlorobenzene	15	ug/kg		U	0		50		
1,2-Dichloroethane	22	ug/kg		U	0		50		
1,2-Dichloropropane	26	ug/kg		U	0		100		
1,3-Dichlorobenzene	14	ug/kg		U	0		50		
1,4-Dichlorobenzene	15	ug/kg		U	0		50		
112Trichloro122trifluoroethane	62	ug/kg		U	0		200		
2-Butanone	280	ug/kg		U	0		1000		
2-Hexanone	150	ug/kg		U	0		500		
4-Methyl-2-pentanone	300	ug/kg		U	0		1000		
Acetone	250	ug/kg		U	0		500		
Benzene	28	ug/kg		U	0		100		
Bromochloromethane	31	ug/kg		U	0		100		
Bromodichloromethane	23	ug/kg		U	0		50		
Bromoform	15	ug/kg		U	0		50		
Bromomethane	90	ug/kg		U	0		200		
Carbon disulfide	59	ug/kg		U	0		200		
Carbon tetrachloride	28	ug/kg		U	0		100		
Chlorobenzene	13	ug/kg		U	0		50		
Chloroethane	85	ug/kg		U	0		200		
Chloroform	32	ug/kg		U	0		100		
Chloromethane	33	ug/kg		U	0		100		
cis-1,2-Dichloroethene	30	ug/kg		U	0		100		
cis-1,3-Dichloropropene	29	ug/kg		U	0		100		
Cyclohexane	31	ug/kg		U	0		100		
Dibromochloromethane	15	ug/kg		U	0		50		
Dichlorodifluoromethane	31	ug/kg		U	0		100		
Ethylbenzene	13	ug/kg		U	0		50		
Isopropylbenzene	13	ug/kg		U	0		50		
m & p-Xylene	25	ug/kg		U	0		100		
Methyl acetate	40	ug/kg		U	0		100		
Methyl tert-butyl ether	24	ug/kg		U	0		50		
Methylcyclohexane	29	ug/kg		U	0		100		
Methylene chloride	42	ug/kg		U	0		100		
Naphthalene	14	ug/kg		U	0		50		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	266477	Analysis Date:	10/25/2022	Prep Batch #:	127379	Matrix:	SOLID
CTLab #:	1252544	Analysis Time:	13:02	Prep Date/Time:	10/22/2022 19:20	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
o-Xylene	13	ug/kg		U	0		50		
Styrene	20	ug/kg		U	0		50		
Tetrachloroethene	34	ug/kg		U	0		100		
Toluene	28	ug/kg		U	0		100		
trans-1,2-Dichloroethene	29	ug/kg		U	0		100		
trans-1,3-Dichloropropene	26	ug/kg		U	0		100		
Trichloroethene	30	ug/kg		U	0		100		
Trichlorofluoromethane	30	ug/kg		U	0		100		
Vinyl chloride	30	ug/kg		U	0		100		

Matrix Spike Duplicate Soil

Analytical Run #:	266477	Analysis Date:	10/25/2022	Prep Batch #:	127379	Matrix:	SOIL
CTLab #:	1252548	Analysis Time:	14:55	Prep Date/Time:	10/22/2022 19:20	Method:	SW8260C
Parent Sample #:	1252547	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	557	ug/kg	BDL		511	109	73 --- 130	6	20
1,1,2,2-Tetrachloroethane	437	ug/kg	BDL		511	86	70 --- 124	0	20
1,1,2-Trichloroethane	558	ug/kg	BDL		511	109	78 --- 121	3	20
1,1-Dichloroethane	511	ug/kg	BDL		511	100	76 --- 125	2	20
1,1-Dichloroethene	565	ug/kg	BDL		511	111	70 --- 131	3	20
1,2 Dichloroethane-d4	104	% Recovery			100	104	71 --- 136	0	
1,2,3-Trichlorobenzene	515	ug/kg	BDL		511	101	66 --- 130	4	20
1,2,4-Trichlorobenzene	477	ug/kg	BDL		511	93	67 --- 129	2	20
1,2-Dibromo-3-chloropropane	485	ug/kg	BDL		511	95	61 --- 132	1	20
1,2-Dibromoethane	515	ug/kg	BDL		511	101	78 --- 122	3	20
1,2-Dichlorobenzene	498	ug/kg	BDL		511	97	78 --- 121	0	20
1,2-Dichloroethane	498	ug/kg	BDL		511	97	73 --- 128	2	20
1,2-Dichloropropane	511	ug/kg	BDL		511	100	76 --- 123	0	20
1,3-Dichlorobenzene	498	ug/kg	BDL		511	97	77 --- 121	4	20
1,4-Dichlorobenzene	504	ug/kg	BDL		511	99	75 --- 120	5	20
112Trichloro122trifluoroethane	1200	ug/kg	BDL		1020	118	66 --- 136	0	20
2-Butanone	5060	ug/kg	BDL		5110	99	51 --- 148	3	20
2-Hexanone	5170	ug/kg	BDL		5110	101	53 --- 145	4	20
4-Methyl-2-pentanone	5420	ug/kg	BDL		5110	106	65 --- 135	2	20
Acetone	4960	ug/kg	BDL		5110	97	36 --- 164	5	20
Benzene	541	ug/kg	BDL		511	106	77 --- 121	3	20
Bromochloromethane	528	ug/kg	BDL		511	103	78 --- 125	4	20
Bromodichloromethane	536	ug/kg	BDL		511	105	75 --- 127	3	20
Bromofluorobenzene	96.0	% Recovery			100	96.0	79 --- 119	0	
Bromoform	545	ug/kg	BDL		511	107	67 --- 132	1	20
Bromomethane	581	ug/kg	BDL		511	114	53 --- 143	0	20
Carbon disulfide	1020	ug/kg	BDL		1020	100	63 --- 132	4	20
Carbon tetrachloride	544	ug/kg	BDL		511	106	70 --- 135	2	20
Chlorobenzene	504	ug/kg	BDL		511	99	79 --- 120	2	20
Chloroethane	1900	ug/kg	BDL		511	372	59 --- 139	104	20
Chloroform	519	ug/kg	BDL		511	102	78 --- 123	1	20
Chloromethane	451	ug/kg	BDL		511	88	50 --- 136	2	20
cis-1,2-Dichloroethene	536	ug/kg	BDL		511	105	77 --- 123	1	20
cis-1,3-Dichloropropene	540	ug/kg	BDL		511	106	74 --- 126	6	20
Cyclohexane	554	ug/kg	BDL		511	108	67 --- 131	3	20
d8-Toluene	100	% Recovery			100	100	85 --- 116	0	
Dibromochloromethane	505	ug/kg	BDL		511	99	74 --- 126	0	20
Dibromofluoromethane	102	% Recovery			100	102	78 --- 119	0	
Dichlorodifluoromethane	401	ug/kg	BDL		511	78	29 --- 149	2	20
Ethylbenzene	521	ug/kg	BDL		511	102	76 --- 122	2	20
Isopropylbenzene	519	ug/kg	BDL		511	102	68 --- 134	1	20
m & p-Xylene	1040	ug/kg	BDL		1020	102	77 --- 124	1	20
Methyl acetate	1740	ug/kg	BDL		511	341	53 --- 144	2	20

Matrix Spike Duplicate Soil

Analytical Run #:	266477	Analysis Date:	10/25/2022	Prep Batch #:	127379	Matrix:	SOIL
CTLab #:	1252548	Analysis Time:	14:55	Prep Date/Time:	10/22/2022 19:20	Method:	SW8260C
Parent Sample #:	1252547	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl tert-butyl ether	411	ug/kg	BDL		511	80	73 --- 125	16	20
Methylcyclohexane	536	ug/kg	BDL		511	105	66 --- 133	1	20
Methylene chloride	522	ug/kg	BDL		511	102	70 --- 128	2	20
Naphthalene	519	ug/kg	BDL		511	102	62 --- 129	4	20
o-Xylene	516	ug/kg	BDL		511	101	77 --- 123	1	20
Styrene	538	ug/kg	BDL		511	105	76 --- 124	2	20
Tetrachloroethene	546	ug/kg	BDL		511	107	73 --- 128	0	20
Toluene	523	ug/kg	BDL		511	102	77 --- 121	1	20
trans-1,2-Dichloroethene	531	ug/kg	BDL		511	104	74 --- 125	3	20
trans-1,3-Dichloropropene	518	ug/kg	BDL		511	101	71 --- 130	3	20
Trichloroethene	627	ug/kg	BDL		511	123	77 --- 123	4	20
Trichlorofluoromethane	649	ug/kg	BDL		511	127	62 --- 140	5	20
Vinyl chloride	516	ug/kg	BDL		511	101	56 --- 135	3	20

Matrix Spike Soil

Analytical Run #:	266477	Analysis Date:	10/25/2022	Prep Batch #:	127379	Matrix:	SOIL
CTLab #:	1252547	Analysis Time:	14:27	Prep Date/Time:	10/22/2022 19:20	Method:	SW8260C
Parent Sample #:	1252542	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1-Trichloroethane	526	ug/kg	BDL		511	103	73 --- 130		20
1,1,2,2-Tetrachloroethane	437	ug/kg	BDL		511	86	70 --- 124		20
1,1,2-Trichloroethane	540	ug/kg	BDL		511	106	78 --- 121		20
1,1-Dichloroethane	501	ug/kg	BDL		511	98	76 --- 125		20
1,1-Dichloroethene	548	ug/kg	BDL		511	107	70 --- 131		20
1,2 Dichloroethane-d4	103	% Recovery			100	103	71 --- 136		
1,2,3-Trichlorobenzene	496	ug/kg	BDL		511	97	66 --- 130		20
1,2,4-Trichlorobenzene	469	ug/kg	BDL		511	92	67 --- 129		20
1,2-Dibromo-3-chloropropane	479	ug/kg	BDL		511	94	61 --- 132		20
1,2-Dibromoethane	500	ug/kg	BDL		511	98	78 --- 122		20
1,2-Dichlorobenzene	498	ug/kg	BDL		511	97	78 --- 121		20
1,2-Dichloroethane	489	ug/kg	BDL		511	96	73 --- 128		20
1,2-Dichloropropane	510	ug/kg	BDL		511	100	76 --- 123		20
1,3-Dichlorobenzene	480	ug/kg	BDL		511	94	77 --- 121		20
1,4-Dichlorobenzene	479	ug/kg	BDL		511	94	75 --- 120		20
112Trichloro122trifluoroethane	1190	ug/kg	BDL		1020	117	66 --- 136		20
2-Butanone	5200	ug/kg	BDL		5110	102	51 --- 148		20
2-Hexanone	5360	ug/kg	BDL		5110	105	53 --- 145		20
4-Methyl-2-pentanone	5320	ug/kg	BDL		5110	104	65 --- 135		20
Acetone	5210	ug/kg	BDL		5110	102	36 --- 164		20
Benzene	526	ug/kg	BDL		511	103	77 --- 121		20
Bromochloromethane	509	ug/kg	BDL		511	100	78 --- 125		20
Bromodichloromethane	518	ug/kg	BDL		511	101	75 --- 127		20
Bromofluorobenzene	94.0	% Recovery			100	94.0	79 --- 119		
Bromoform	541	ug/kg	BDL		511	106	67 --- 132		20
Bromomethane	581	ug/kg	BDL		511	114	53 --- 143		20
Carbon disulfide	974	ug/kg	BDL		1020	95	63 --- 132		20
Carbon tetrachloride	534	ug/kg	BDL		511	105	70 --- 135		20
Chlorobenzene	512	ug/kg	BDL		511	100	79 --- 120		20
Chloroethane	599	ug/kg	BDL		511	117	59 --- 139		20
Chloroform	525	ug/kg	BDL		511	103	78 --- 123		20
Chloromethane	444	ug/kg	BDL		511	87	50 --- 136		20
cis-1,2-Dichloroethene	532	ug/kg	BDL		511	104	77 --- 123		20
cis-1,3-Dichloropropene	509	ug/kg	BDL		511	100	74 --- 126		20
Cyclohexane	538	ug/kg	BDL		511	105	67 --- 131		20
d8-Toluene	100	% Recovery			100	100	85 --- 116		
Dibromochloromethane	505	ug/kg	BDL		511	99	74 --- 126		20
Dibromofluoromethane	103	% Recovery			100	103	78 --- 119		
Dichlorodifluoromethane	408	ug/kg	BDL		511	80	29 --- 149		20
Ethylbenzene	510	ug/kg	BDL		511	100	76 --- 122		20
Isopropylbenzene	515	ug/kg	BDL		511	101	68 --- 134		20
m & p-Xylene	1030	ug/kg	BDL		1020	101	77 --- 124		20
Methyl acetate	1700	ug/kg	BDL		511	333	53 --- 144		20

Matrix Spike Soil

Analytical Run #:	266477	Analysis Date:	10/25/2022	Prep Batch #:	127379	Matrix:	SOIL
CTLab #:	1252547	Analysis Time:	14:27	Prep Date/Time:	10/22/2022 19:20	Method:	SW8260C
Parent Sample #:	1252542	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl tert-butyl ether	483	ug/kg	BDL		511	95	73 --- 125		20
Methylcyclohexane	543	ug/kg	BDL		511	106	66 --- 133		20
Methylene chloride	511	ug/kg	BDL		511	100	70 --- 128		20
Naphthalene	497	ug/kg	BDL		511	97	62 --- 129		20
o-Xylene	519	ug/kg	BDL		511	102	77 --- 123		20
Styrene	527	ug/kg	BDL		511	103	76 --- 124		20
Tetrachloroethene	545	ug/kg	BDL		511	107	73 --- 128		20
Toluene	527	ug/kg	BDL		511	103	77 --- 121		20
trans-1,2-Dichloroethene	517	ug/kg	BDL		511	101	74 --- 125		20
trans-1,3-Dichloropropene	503	ug/kg	BDL		511	98	71 --- 130		20
Trichloroethene	605	ug/kg	BDL		511	118	77 --- 123		20
Trichlorofluoromethane	616	ug/kg	BDL		511	121	62 --- 140		20
Vinyl chloride	503	ug/kg	BDL		511	98	56 --- 135		20

Lab Control Spike Soil

Analytical Run #:	266662	Analysis Date:	10/27/2022	Prep Batch #:	127393	Matrix:	SOLID
CTLab #:	1252611	Analysis Time:	14:20	Prep Date/Time:	10/25/2022 00:00	Method:	SW8082
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	483	ug/kg			500	97	47 --- 134		30
Aroclor-1221	0				0.5	0	70 --- 130		30
Aroclor-1232	0				0.5	0	70 --- 130		30
Aroclor-1242	0				0.5	0	70 --- 130		30
Aroclor-1248	0				0.5	0	70 --- 130		30
Aroclor-1254	0				0.5	0	67 --- 135		30
Aroclor-1260	469	ug/kg			500	94	53 --- 140		30
Aroclor-1262	0				0.5	0	70 --- 130		30
Aroclor-1268	0				0.5	0	70 --- 130		30

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Method Blank Soil

Analytical Run #:	266662	Analysis Date:	10/27/2022	Prep Batch #:	127393	Matrix:	SOLID
CTLab #:	1252610	Analysis Time:	13:58	Prep Date/Time:	10/25/2022 00:00	Method:	SW8082
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	17	ug/kg		U	0		30		
Aroclor-1221	28	ug/kg		U			40		
Aroclor-1232	11	ug/kg		U			30		
Aroclor-1242	10	ug/kg		U			30		
Aroclor-1248	14	ug/kg		U			30		
Aroclor-1254	18	ug/kg		U			30		
Aroclor-1260	11	ug/kg		U			30		
Aroclor-1262	10	ug/kg		U			30		
Aroclor-1268	17	ug/kg		U			30		

Matrix Spike Duplicate Soil

Analytical Run #:	266662	Analysis Date:	10/27/2022	Prep Batch #:	127393	Matrix:	SOIL
CTLab #:	1252614	Analysis Time:	16:08	Prep Date/Time:	10/25/2022 00:00	Method:	SW8082
Parent Sample #:	1252613	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	500	ug/kg	BDL		513	97	47 --- 134	3	30
Aroclor-1221	28.7		BDL	U	0.513	0	70 --- 130	0	30
Aroclor-1232	11.3		BDL	U	0.513	0	70 --- 130	0	30
Aroclor-1242	10.3		BDL	U	0.513	0	70 --- 130	0	30
Aroclor-1248	14.4		BDL	U	0.513	0	70 --- 130	0	30
Aroclor-1254	18.5		BDL	U	0.513	0	67 --- 135	0	30
Aroclor-1260	493	ug/kg	BDL		513	96	53 --- 140	4	30
Aroclor-1262	10.3		BDL	U	0.513	0	70 --- 130	0	30
Aroclor-1268	17.5		BDL	U	0.513	0	70 --- 130	0	30
Surr: 2,4,5,6-TCMX	112	% Recovery			100	112	54 --- 135	0	
Surr: DCBP	111	% Recovery			100	111	54 --- 141	0	

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173145

Project #: 103X903100320001DH108

Matrix Spike Soil

Analytical Run #:	266662	Analysis Date:	10/27/2022	Prep Batch #:	127393	Matrix:	SOIL
CTLab #:	1252613	Analysis Time:	15:47	Prep Date/Time:	10/25/2022 00:00	Method:	SW8082
Parent Sample #:	1252542	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	479	ug/kg	BDL		505	95	47 --- 134		30
Aroclor-1221	28.3		BDL	U	0.505	0	70 --- 130		30
Aroclor-1232	11.1		BDL	U	0.505	0	70 --- 130		30
Aroclor-1242	10.1		BDL	U	0.505	0	70 --- 130		30
Aroclor-1248	14.1		BDL	U	0.505	0	70 --- 130		30
Aroclor-1254	18.2		BDL	U	0.505	0	67 --- 135		30
Aroclor-1260	466	ug/kg	BDL		505	92	53 --- 140		30
Aroclor-1262	10.1		BDL	U	0.505	0	70 --- 130		30
Aroclor-1268	17.2		BDL	U	0.505	0	70 --- 130		30
Surr: 2,4,5,6-TCMX	111	% Recovery			100	111	54 --- 135		
Surr: DCBP	112	% Recovery			100	112	54 --- 141		

Lab Control Spike Soil

Analytical Run #:	266690	Analysis Date:	10/27/2022	Prep Batch #:	127380	Matrix:	SOLID
CTLab #:	1252557	Analysis Time:	22:04	Prep Date/Time:	10/25/2022 10:00	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	1420	ug/kg			2000	71	40 --- 117		20
1,2,4,5-Tetrachlorobenzene	1300	ug/kg			2000	65	47 --- 106		20
2,4,5-Trichlorophenol	1550	ug/kg			2000	78	41 --- 124		20
2,4,6-Trichlorophenol	1470	ug/kg			2000	74	39 --- 126		20
2,4-Dichlorophenol	1380	ug/kg			2000	69	40 --- 122		20
2,4-Dimethylphenol	463	ug/kg		Q	2000	23	30 --- 127		20
2,4-Dinitrophenol	1270	ug/kg			2000	64	16 --- 102		20
2,4-Dinitrotoluene	1650	ug/kg			2000	82	48 --- 126		20
2,6-Dinitrotoluene	1650	ug/kg			2000	82	46 --- 124		20
2-Chloronaphthalene	1400	ug/kg			2000	70	41 --- 114		20
2-Chlorophenol	1360	ug/kg			2000	68	34 --- 121		20
2-Methylnaphthalene	1380	ug/kg			2000	69	38 --- 122		20
2-Methylphenol	1200	ug/kg			2000	60	32 --- 122		20
2-Nitroaniline	1550	ug/kg			2000	78	44 --- 127		20
2-Nitrophenol	1340	ug/kg			2000	67	36 --- 123		20
3 & 4-Methylphenol	1310	ug/kg			2000	66	34 --- 119		20
3,3'-Dichlorobenzidine	943	ug/kg			2000	47	22 --- 121		20
3-Nitroaniline	1130	ug/kg			2000	56	33 --- 119		20
4,6-Dinitro-2-methylphenol	1440	ug/kg			2000	72	29 --- 132		20
4-Bromophenyl-phenyl ether	1610	ug/kg			2000	80	46 --- 124		20
4-Chloro-3-methylphenol	1550	ug/kg			2000	78	45 --- 122		20
4-Chloroaniline	622	ug/kg			2000	31	17 --- 106		20
4-Chlorophenyl-phenyl ether	1580	ug/kg			2000	79	45 --- 121		20
4-Nitroaniline	1410	ug/kg			2000	70	44 --- 125		20
4-Nitrophenol	1560	ug/kg			2000	78	30 --- 132		20
Acenaphthene	1450	ug/kg			2000	72	40 --- 123		20
Acenaphthylene	1400	ug/kg			2000	70	32 --- 132		20
Acetophenone	1330	ug/kg			2000	66	33 --- 115		20
Anthracene	1620	ug/kg			2000	81	47 --- 123		20
Atrazine	1670	ug/kg			2000	84	47 --- 127		20
Benzaldehyde	1420	ug/kg			2000	71	6 --- 185		20
Benzo(a)anthracene	1670	ug/kg			2000	84	49 --- 126		20
Benzo(a)pyrene	1640	ug/kg			2000	82	54 --- 129		20
Benzo(b)fluoranthene	1770	ug/kg			2000	88	45 --- 132		20
Benzo(g,h,i)perylene	1430	ug/kg			2000	72	43 --- 134		20
Benzo(k)fluoranthene	1720	ug/kg			2000	86	47 --- 132		20
Bis(2-chloroethoxy)methane	1310	ug/kg			2000	66	36 --- 121		20
Bis(2-chloroethyl)ether	1270	ug/kg			2000	64	31 --- 120		20
Bis(2-chloroisopropyl)ether	1260	ug/kg			2000	63	33 --- 131		20
Bis(2-ethylhexyl)phthalate	1730	ug/kg			2000	86	51 --- 133		20
Butylbenzylphthalate	1700	ug/kg			2000	85	48 --- 132		20
Caprolactam	1700	ug/kg			2000	85	46 --- 117		20
Carbazole	1660	ug/kg			2000	83	50 --- 123		20

Lab Control Spike Soil

Analytical Run #:	266690	Analysis Date:	10/27/2022	Prep Batch #:	127380	Matrix:	SOLID
CTLab #:	1252557	Analysis Time:	22:04	Prep Date/Time:	10/25/2022 10:00	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chrysene	1700	ug/kg			2000	85	50 --- 124		20
Di-n-butylphthalate	1710	ug/kg			2000	86	51 --- 128		20
Di-n-octylphthalate	1620	ug/kg			2000	81	51 --- 128		20
Dibenzo(a,h)anthracene	1520	ug/kg			2000	76	45 --- 134		20
Dibenzofuran	1520	ug/kg			2000	76	44 --- 120		20
Diethylphthalate	1660	ug/kg			2000	83	50 --- 124		20
Dimethylphthalate	1610	ug/kg			2000	80	48 --- 124		20
Fluoranthene	1710	ug/kg			2000	86	50 --- 127		20
Fluorene	1580	ug/kg			2000	79	43 --- 125		20
Hexachlorobenzene	1620	ug/kg			2000	81	45 --- 122		20
Hexachlorobutadiene	1380	ug/kg			2000	69	32 --- 123		20
Hexachlorocyclopentadiene	775	ug/kg			2000	39	35 --- 106		20
Hexachloroethane	1300	ug/kg			2000	65	28 --- 117		20
Indeno(1,2,3-cd)pyrene	1310	ug/kg			2000	66	45 --- 133		20
Isophorone	1300	ug/kg			2000	65	30 --- 122		20
N-Nitroso-di-n-propylamine	1290	ug/kg			2000	64	36 --- 120		20
N-Nitrosodiphenylamine & Diphn	3100	ug/kg			4000	78	38 --- 127		20
Naphthalene	1350	ug/kg			2000	68	35 --- 123		20
Nitrobenzene	1300	ug/kg			2000	65	34 --- 122		20
Pentachlorophenol	1470	ug/kg			2000	74	25 --- 133		20
Phenanthrene	1650	ug/kg			2000	82	50 --- 121		20
Phenol	1440	ug/kg			2000	72	34 --- 121		20
Pyrene	1690	ug/kg			2000	84	47 --- 127		20

Method Blank Soil

Analytical Run #:	266690	Analysis Date:	10/27/2022	Prep Batch #:	127380	Matrix:	SOLID
CTLab #:	1252556	Analysis Time:	21:40	Prep Date/Time:	10/25/2022 10:00	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	40	ug/kg		U	0		100		
1,2,4,5-Tetrachlorobenzene	100	ug/kg		U	0		200		
2,4,5-Trichlorophenol	200	ug/kg		U	0		500		
2,4,6-Trichlorophenol	200	ug/kg		U	0		500		
2,4-Dichlorophenol	230	ug/kg		U	0		500		
2,4-Dimethylphenol	150	ug/kg		U	Q	0	500		
2,4-Dinitrophenol	200	ug/kg		U	0		500		
2,4-Dinitrotoluene	50	ug/kg		U	0		100		
2,6-Dinitrotoluene	50	ug/kg		U	0		100		
2-Chloronaphthalene	40	ug/kg		U	0		100		
2-Chlorophenol	150	ug/kg		U	0		500		
2-Methylnaphthalene	50	ug/kg		U	0		100		
2-Methylphenol	200	ug/kg		U	0		500		
2-Nitroaniline	80	ug/kg		U	0		200		
2-Nitrophenol	300	ug/kg		U	0		500		
3 & 4-Methylphenol	300	ug/kg		U	0		1000		
3,3'-Dichlorobenzidine	80	ug/kg		U	0		200		
3-Nitroaniline	40	ug/kg		U	0		100		
4,6-Dinitro-2-methylphenol	200	ug/kg		U	0		500		
4-Bromophenyl-phenyl ether	50	ug/kg		U	0		100		
4-Chloro-3-methylphenol	200	ug/kg		U	0		500		
4-Chloroaniline	50	ug/kg		U	0		200		
4-Chlorophenyl-phenyl ether	50	ug/kg		U	0		100		
4-Nitroaniline	40	ug/kg		U	0		100		
4-Nitrophenol	300	ug/kg		U	0		500		
Acenaphthene	70	ug/kg		U	0		200		
Acenaphthylene	50	ug/kg		U	0		100		
Acetophenone	50	ug/kg		U	0		100		
Anthracene	40	ug/kg		U	0		100		
Atrazine	40	ug/kg		U	0		100		
Benzaldehyde	50	ug/kg		U	0		100		
Benzo(a)anthracene	40	ug/kg		U	0		100		
Benzo(a)pyrene	40	ug/kg		U	0		100		
Benzo(b)fluoranthene	50	ug/kg		U	0		100		
Benzo(g,h,i)perylene	40	ug/kg		U	0		100		
Benzo(k)fluoranthene	50	ug/kg		U	0		100		
Bis(2-chloroethoxy)methane	40	ug/kg		U	0		100		
Bis(2-chloroethyl)ether	50	ug/kg		U	0		100		
Bis(2-chloroisopropyl)ether	50	ug/kg		U	0		100		
Bis(2-ethylhexyl)phthalate	50	ug/kg		U	0		100		
Butylbenzylphthalate	80	ug/kg		U	0		200		
Caprolactam	100	ug/kg		U	0		200		
Carbazole	60	ug/kg		U	0		200		

Method Blank Soil

Analytical Run #:	266690	Analysis Date:	10/27/2022	Prep Batch #:	127380	Matrix:	SOLID
CTLab #:	1252556	Analysis Time:	21:40	Prep Date/Time:	10/25/2022 10:00	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chrysene	40	ug/kg		U	0		100		
Di-n-butylphthalate	100	ug/kg		U	0		200		
Di-n-octylphthalate	40	ug/kg		U	0		100		
Dibenzo(a,h)anthracene	50	ug/kg		U	0		100		
Dibenzofuran	40	ug/kg		U	0		100		
Diethylphthalate	40	ug/kg		U	0		100		
Dimethylphthalate	50	ug/kg		U	0		100		
Fluoranthene	40	ug/kg		U	0		100		
Fluorene	50	ug/kg		U	0		100		
Hexachlorobenzene	50	ug/kg		U	0		100		
Hexachlorobutadiene	50	ug/kg		U	0		100		
Hexachlorocyclopentadiene	50	ug/kg		U	0		100		
Hexachloroethane	40	ug/kg		U	0		100		
Indeno(1,2,3-cd)pyrene	40	ug/kg		U	0		100		
Isophorone	40	ug/kg		U	0		100		
N-Nitroso-di-n-propylamine	50	ug/kg		U	0		100		
N-Nitrosodiphenylamine & Diphn	100	ug/kg		U	0		200		
Naphthalene	40	ug/kg		U	0		100		
Nitrobenzene	40	ug/kg		U	0		100		
Pentachlorophenol	200	ug/kg		U	0		500		
Phenanthrene	40	ug/kg		U	0		100		
Phenol	200	ug/kg		U	0		500		
Pyrene	50	ug/kg		U	0		100		

Matrix Spike Duplicate Soil

Analytical Run #:	266690	Analysis Date:	10/27/2022	Prep Batch #:	127380	Matrix:	SOIL
CTLab #:	1252560	Analysis Time:	23:37	Prep Date/Time:	10/25/2022 10:00	Method:	SW8270D
Parent Sample #:	1252559	Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	1280	ug/kg	BDL		2020	63	40 --- 117	12	20
1,2,4,5-Tetrachlorobenzene	1100	ug/kg	BDL		2020	54	47 --- 106	11	20
2,4,5-Trichlorophenol	1300	ug/kg	BDL		2020	64	41 --- 124	4	20
2,4,6-Trichlorophenol	1360	ug/kg	BDL		2020	67	39 --- 126	9	20
2,4-Dichlorophenol	1290	ug/kg	BDL		2020	64	40 --- 122	16	20
2,4-Dimethylphenol	938	ug/kg	BDL	Q	2020	46	30 --- 127	26	20
2,4-Dinitrophenol	1340	ug/kg	BDL		2020	66	16 --- 102	10	20
2,4-Dinitrotoluene	1430	ug/kg	BDL		2020	71	48 --- 126	4	20
2,6-Dinitrotoluene	1440	ug/kg	BDL		2020	71	46 --- 124	3	20
2-Chloronaphthalene	1250	ug/kg	BDL		2020	62	41 --- 114	12	20
2-Chlorophenol	1090	ug/kg	BDL		2020	54	34 --- 121	4	20
2-Methylnaphthalene	1200	ug/kg	BDL		2020	59	38 --- 122	12	20
2-Methylphenol	1170	ug/kg	BDL		2020	58	32 --- 122	11	20
2-Nitroaniline	1440	ug/kg	BDL		2020	71	44 --- 127	8	20
2-Nitrophenol	1090	ug/kg	BDL		2020	54	36 --- 123	6	20
3 & 4-Methylphenol	1340	ug/kg	BDL		2020	66	34 --- 119	20	20
3,3'-Dichlorobenzidine	497	ug/kg	BDL		2020	25	22 --- 121	38	20
3-Nitroaniline	939	ug/kg	BDL		2020	46	33 --- 119	2	20
4,6-Dinitro-2-methylphenol	1380	ug/kg	BDL		2020	68	29 --- 132	10	20
4-Bromophenyl-phenyl ether	1460	ug/kg	BDL		2020	72	46 --- 124	6	20
4-Chloro-3-methylphenol	1370	ug/kg	BDL		2020	68	45 --- 122	13	20
4-Chloroaniline	421	ug/kg	BDL		2020	21	17 --- 106	2	20
4-Chlorophenyl-phenyl ether	1410	ug/kg	BDL		2020	70	45 --- 121	5	20
4-Nitroaniline	1150	ug/kg	BDL		2020	57	44 --- 125	2	20
4-Nitrophenol	1110	ug/kg	BDL		2020	55	30 --- 132	6	20
Acenaphthene	1310	ug/kg	BDL		2020	65	40 --- 123	10	20
Acenaphthylene	1270	ug/kg	BDL		2020	63	32 --- 132	10	20
Acetophenone	1070	ug/kg	BDL		2020	53	25 --- 96	5	20
Anthracene	1440	ug/kg	BDL		2020	71	47 --- 123	4	20
Atrazine	1420	ug/kg	BDL		2020	70	47 --- 127	2	20
Benzaldehyde	1180	ug/kg	BDL		2020	58	6 --- 185	5	20
Benzo(a)anthracene	1460	ug/kg	BDL		2020	72	49 --- 126	4	20
Benzo(a)pyrene	1400	ug/kg	BDL		2020	69	45 --- 129	2	20
Benzo(b)fluoranthene	1540	ug/kg	BDL		2020	76	45 --- 132	5	20
Benzo(g,h,i)perylene	1050	ug/kg	BDL		2020	52	43 --- 134	15	20
Benzo(k)fluoranthene	1580	ug/kg	BDL		2020	78	47 --- 132	6	20
Bis(2-chloroethoxy)methane	1080	ug/kg	BDL		2020	53	36 --- 121	8	20
Bis(2-chloroethyl)ether	1010	ug/kg	BDL		2020	50	31 --- 120	2	20
Bis(2-chloroisopropyl)ether	1090	ug/kg	BDL		2020	54	33 --- 131	6	20
Bis(2-ethylhexyl)phthalate	1480	ug/kg	BDL		2020	73	51 --- 133	5	20
Butylbenzylphthalate	1560	ug/kg	BDL		2020	77	48 --- 132	6	20
Caprolactam	1390	ug/kg	BDL		2020	69	46 --- 117	4	20
Carbazole	1430	ug/kg	BDL		2020	71	50 --- 123	2	20

Matrix Spike Duplicate Soil

Analytical Run #:	266690	Analysis Date:	10/27/2022	Prep Batch #:	127380	Matrix:	SOIL
CTLab #:	1252560	Analysis Time:	23:37	Prep Date/Time:	10/25/2022 10:00	Method:	SW8270D
Parent Sample #:	1252559	Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chrysene	1470	ug/kg	BDL		2020	73	50 --- 124	3	20
Di-n-butylphthalate	1510	ug/kg	BDL		2020	75	51 --- 128	2	20
Di-n-octylphthalate	1370	ug/kg	BDL		2020	68	45 --- 140	4	20
Dibenzo(a,h)anthracene	1210	ug/kg	BDL		2020	60	45 --- 134	13	20
Dibenzofuran	1380	ug/kg	BDL		2020	68	44 --- 120	8	20
Diethylphthalate	1500	ug/kg	BDL		2020	74	50 --- 124	4	20
Dimethylphthalate	1440	ug/kg	BDL		2020	71	48 --- 124	6	20
Fluoranthene	1490	ug/kg	BDL		2020	74	50 --- 127	4	20
Fluorene	1420	ug/kg	BDL		2020	70	43 --- 125	6	20
Hexachlorobenzene	1410	ug/kg	BDL		2020	70	45 --- 122	4	20
Hexachlorobutadiene	1060	ug/kg	BDL		2020	52	32 --- 123	9	20
Hexachlorocyclopentadiene	714	ug/kg	BDL		2020	35	35 --- 106	1	20
Hexachloroethane	997	ug/kg	BDL		2020	49	28 --- 117	3	20
Indeno(1,2,3-cd)pyrene	1020	ug/kg	BDL		2020	50	45 --- 133	12	20
Isophorone	1120	ug/kg	BDL		2020	55	30 --- 122	9	20
N-Nitroso-di-n-propylamine	977	ug/kg	BDL		2020	48	36 --- 120	3	20
N-Nitrosodiphenylamine & Diphn	2840	ug/kg	BDL		4040	70	38 --- 127	5	20
Naphthalene	1080	ug/kg	BDL		2020	53	35 --- 123	6	20
Nitrobenzene	1060	ug/kg	BDL		2020	52	34 --- 122	5	20
Pentachlorophenol	1300	ug/kg	BDL		2020	64	25 --- 133	5	20
Phenanthrene	1450	ug/kg	BDL		2020	72	50 --- 121	4	20
Phenol	1200	ug/kg	BDL		2020	59	34 --- 121	14	20
Pyrene	1490	ug/kg	BDL		2020	74	47 --- 127	5	20
Surr: 2,4,6-Tribromophenol	71.9	% Recovery			100	71.9	39 --- 132	0	
Surr: 2-Fluorobiphenyl	57.1	% Recovery			100	57.1	44 --- 115	0	
Surr: 2-Fluorophenol	54.4	% Recovery			100	54.4	35 --- 115	0	
Surr: Nitrobenzene-d5	51.0	% Recovery			100	51.0	37 --- 122	0	
Surr: Phenol-d5	58.5	% Recovery			100	58.5	33 --- 122	0	
Surr: Terphenyl-d14	71.0	% Recovery			100	71.0	54 --- 127	0	

Matrix Spike Soil

Analytical Run #:	266690	Analysis Date:	10/27/2022	Prep Batch #:	127380	Matrix:	SOIL
CTLab #:	1252559	Analysis Time:	23:13	Prep Date/Time:	10/25/2022 10:00	Method:	SW8270D
Parent Sample #:	1252542	Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1'-Biphenyl	1140	ug/kg	BDL		2010	57	40 --- 117		20
1,2,4,5-Tetrachlorobenzene	986	ug/kg	BDL		2010	49	47 --- 106		20
2,4,5-Trichlorophenol	1250	ug/kg	BDL		2010	62	41 --- 124		20
2,4,6-Trichlorophenol	1240	ug/kg	BDL		2010	62	39 --- 126		20
2,4-Dichlorophenol	1100	ug/kg	BDL		2010	55	40 --- 122		20
2,4-Dimethylphenol	720	ug/kg	BDL	Q	2010	36	30 --- 127		20
2,4-Dinitrophenol	1220	ug/kg	BDL		2010	61	16 --- 102		20
2,4-Dinitrotoluene	1370	ug/kg	BDL		2010	68	48 --- 126		20
2,6-Dinitrotoluene	1400	ug/kg	BDL		2010	70	46 --- 124		20
2-Chloronaphthalene	1110	ug/kg	BDL		2010	55	41 --- 114		20
2-Chlorophenol	1050	ug/kg	BDL		2010	52	34 --- 121		20
2-Methylnaphthalene	1060	ug/kg	BDL		2010	53	38 --- 122		20
2-Methylphenol	1040	ug/kg	BDL		2010	52	32 --- 122		20
2-Nitroaniline	1330	ug/kg	BDL		2010	66	44 --- 127		20
2-Nitrophenol	1020	ug/kg	BDL		2010	51	36 --- 123		20
3 & 4-Methylphenol	1100	ug/kg	BDL		2010	55	34 --- 119		20
3,3'-Dichlorobenzidine	725	ug/kg	BDL		2010	36	22 --- 121		20
3-Nitroaniline	918	ug/kg	BDL		2010	46	33 --- 119		20
4,6-Dinitro-2-methylphenol	1250	ug/kg	BDL		2010	62	29 --- 132		20
4-Bromophenyl-phenyl ether	1370	ug/kg	BDL		2010	68	46 --- 124		20
4-Chloro-3-methylphenol	1200	ug/kg	BDL		2010	60	45 --- 122		20
4-Chloroaniline	430	ug/kg	BDL		2010	21	17 --- 106		20
4-Chlorophenyl-phenyl ether	1340	ug/kg	BDL		2010	67	45 --- 121		20
4-Nitroaniline	1180	ug/kg	BDL		2010	59	44 --- 125		20
4-Nitrophenol	1040	ug/kg	BDL		2010	52	30 --- 132		20
Acenaphthene	1180	ug/kg	BDL		2010	59	40 --- 123		20
Acenaphthylene	1140	ug/kg	BDL		2010	57	32 --- 132		20
Acetophenone	1020	ug/kg	BDL		2010	51	25 --- 96		20
Anthracene	1380	ug/kg	BDL		2010	69	47 --- 123		20
Atrazine	1390	ug/kg	BDL		2010	69	47 --- 127		20
Benzaldehyde	1120	ug/kg	BDL		2010	56	6 --- 185		20
Benzo(a)anthracene	1400	ug/kg	BDL		2010	70	49 --- 126		20
Benzo(a)pyrene	1380	ug/kg	BDL		2010	69	45 --- 129		20
Benzo(b)fluoranthene	1460	ug/kg	BDL		2010	73	45 --- 132		20
Benzo(g,h,i)perylene	1230	ug/kg	BDL		2010	61	43 --- 134		20
Benzo(k)fluoranthene	1490	ug/kg	BDL		2010	74	47 --- 132		20
Bis(2-chloroethoxy)methane	1000	ug/kg	BDL		2010	50	36 --- 121		20
Bis(2-chloroethyl)ether	990	ug/kg	BDL		2010	49	31 --- 120		20
Bis(2-chloroisopropyl)ether	1020	ug/kg	BDL		2010	51	33 --- 131		20
Bis(2-ethylhexyl)phthalate	1410	ug/kg	BDL		2010	70	51 --- 133		20
Butylbenzylphthalate	1470	ug/kg	BDL		2010	73	48 --- 132		20
Caprolactam	1330	ug/kg	BDL		2010	66	46 --- 117		20
Carbazole	1400	ug/kg	BDL		2010	70	50 --- 123		20

Matrix Spike Soil

Analytical Run #:	266690	Analysis Date:	10/27/2022	Prep Batch #:	127380	Matrix:	SOIL
CTLab #:	1252559	Analysis Time:	23:13	Prep Date/Time:	10/25/2022 10:00	Method:	SW8270D
Parent Sample #:	1252542	Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chrysene	1430	ug/kg	BDL		2010	71	50 --- 124		20
Di-n-butylphthalate	1480	ug/kg	BDL		2010	74	51 --- 128		20
Di-n-octylphthalate	1320	ug/kg	BDL		2010	66	45 --- 140		20
Dibenzo(a,h)anthracene	1370	ug/kg	BDL		2010	68	45 --- 134		20
Dibenzofuran	1270	ug/kg	BDL		2010	63	44 --- 120		20
Diethylphthalate	1440	ug/kg	BDL		2010	72	50 --- 124		20
Dimethylphthalate	1340	ug/kg	BDL		2010	67	48 --- 124		20
Fluoranthene	1440	ug/kg	BDL		2010	72	50 --- 127		20
Fluorene	1330	ug/kg	BDL		2010	66	43 --- 125		20
Hexachlorobenzene	1350	ug/kg	BDL		2010	67	45 --- 122		20
Hexachlorobutadiene	972	ug/kg	BDL		2010	48	32 --- 123		20
Hexachlorocyclopentadiene	707	ug/kg	BDL		2010	35	35 --- 106		20
Hexachloroethane	965	ug/kg	BDL		2010	48	28 --- 117		20
Indeno(1,2,3-cd)pyrene	1150	ug/kg	BDL		2010	57	45 --- 133		20
Isophorone	1020	ug/kg	BDL		2010	51	30 --- 122		20
N-Nitroso-di-n-propylamine	1010	ug/kg	BDL		2010	50	36 --- 120		20
N-Nitrosodiphenylamine & Diphn	2700	ug/kg	BDL		4030	67	38 --- 127		20
Naphthalene	1010	ug/kg	BDL		2010	50	35 --- 123		20
Nitrobenzene	1010	ug/kg	BDL		2010	50	34 --- 122		20
Pentachlorophenol	1240	ug/kg	BDL		2010	62	25 --- 133		20
Phenanthrene	1400	ug/kg	BDL		2010	70	50 --- 121		20
Phenol	1040	ug/kg	BDL		2010	52	34 --- 121		20
Pyrene	1420	ug/kg	BDL		2010	71	47 --- 127		20
Surr: 2,4,6-Tribromophenol	67.5	% Recovery			100	67.5	39 --- 132		
Surr: 2-Fluorobiphenyl	51.8	% Recovery			100	51.8	44 --- 115		
Surr: 2-Fluorophenol	52.1	% Recovery			100	52.1	35 --- 115		
Surr: Nitrobenzene-d5	48.2	% Recovery			100	48.2	37 --- 122		
Surr: Phenol-d5	50.8	% Recovery			100	50.8	33 --- 122		
Surr: Terphenyl-d14	68.0	% Recovery			100	68.0	54 --- 127		

Sample Condition Report

Folder #:	173145	Print Date / Time:	10/22/2022	11:46
Client:	TETRA TECH	Received Date / Time / By:	10/22/2022	10:30 erc
Project Name:	CHUDNOW METALS	Log-In Date / Time / By:	10/22/2022	11:46 erc
Project Phase:	MILWAUKEE, WI	Project #:	103X903100320001DH108	PM: BMS
Coolers:	UNMARKED	Temperature:	5.8 C	On Ice: Y
Custody Seals Present :	Y	COC Present:?	Y	Complete? Y
Seal Intact?	Y	Numbers:	DATED AND SIGNED	
Ship Method:	FEDEX SAT 1ST OVRNT	Tracking Number:	7702 7377 7360	
Adequate Packaging:	Y	Temp Blank Enclosed?	Y	

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

TWO (2) CUSTODY SEALS WERE PRESENT AND INTACT UPON RECEIPT - BOTH WERE DATED 10/21/22 AND SIGNED.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1252542 CM-BF-LQ-221020				
	SOLIDS	1	/	%SOL,HG,ICP,K,NA,pH
	SOLIDS	1	N / N	%SOL,HG,ICP,K,NA,pH
	Total # of Containers of Type (SOLIDS) = 2			
1252542 CM-BF-LQ-221020				
	UNPRES GL	1	/	8270,PCB
	Total # of Containers of Type (UNPRES GL) = 1			
1252542 CM-BF-LQ-221020				
	TERRA CORE	1	/	VOC
	Total # of Containers of Type (TERRA CORE) = 1			
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1252543 CM-BF-LP-221020				
	SOLIDS	1	N / N	%SOL,HG,ICP,K,NA,pH
	SOLIDS	1	N / N	%SOL,HG,ICP,K,NA,pH
	Total # of Containers of Type (SOLIDS) = 2			
1252543 CM-BF-LP-221020				
	UNPRES GL	1	/	8270,PCB
	Total # of Containers of Type (UNPRES GL) = 1			
1252543 CM-BF-LP-221020				
	TERRA CORE	1	/	VOC
	Total # of Containers of Type (TERRA CORE) = 1			

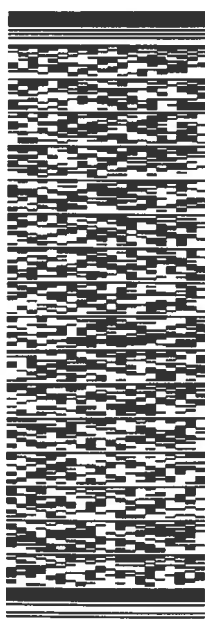
<i>Condition Code</i>	<i>Condition Description</i>
1	Sample Received OK

ORIGIN ID: MKEA (815) 993-8333
ALEXIA SCHOLL
TETRA TECH INC
5401 S STATE ST
MILWAUKEE WI 53208

SHIP DATE: 21 OCT 22
ACTWGT: 20.00 LB
CAD: 102185950/NET4530
BILL SENDER

TO DENNIS LINLEY
CT LABORATORIES, LLC
1230 LANGE CT.

BARABOO WI 53913
(608) 356-2760
INV REF 103X903100320001DH108
DEPT

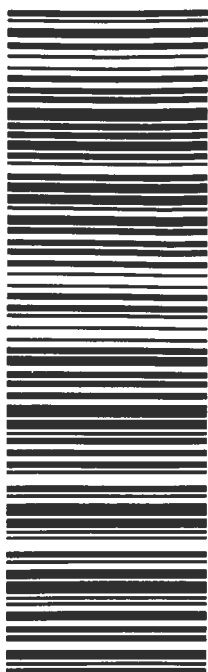


TRK# 7702 7377 7360
0201

SATURDAY 10:30A
FIRST OVERNIGHT

XO LNRA

WI-US MSN 53913



/templates/co
/templates/co
Use of this sy
be responsibl
unless you de
Service Guide
attorney's fees,
costs, and othe
authorized decl
Recovery cannot
precious metals
FedEx Service Guide.

CUSTODY SEAL

DATE

SIGNATURE

10/21/22

Jeff Schur

QEC

Quality Environmental Containers
800-255-3950 • 304-255-3900

including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

CUSTODY SEAL

DATE

SIGNATURE

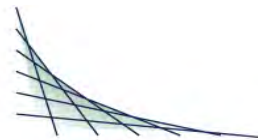
10/21/22

Jeff Schur

QEC

Quality Environmental Containers
800-255-3950 • 304-255-3900

Ice Present ☒ Yes ☐ No
Temperature 5.8 22.8
Em
10/21/22 Time 1030
XXX



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.



REVISED
ANALYTICAL REPORT

TETRA TECH
 RACHEL HOULE
 1 S WACKER DRIVE
 SUITE 3700
 CHICAGO, IL 60606
 Copy: R5 START LIST

Project Name: CHUDNOW METALS
 Project Phase: MILWAUKEE, WI
 Contract #: 3509
 Project #: 103X903100320001DH108
 Folder #: 173328
 Purchase Order #: 1168710 / CT-53

Page 1 of 3
 Arrival Temperature: 5.8
 Report Date: 11/9/2022
 Date Received: 10/22/2022
 Reprint Date: 12/27/2022

CT LAB#: 1256627	Sample Description: CM-WC-SC-TF3-221021	Client Sample #:	Sampled: 10/21/2022 08:24
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results												
TCLP Arsenic	0.010	mg/L	0.0077	0.020	0.040	0.040	1.00	J	10/26/2022 11:50	10/27/22	16:58 NAH	EPA 6010C
TCLP Barium	0.27	mg/L	0.00071	0.0020	0.0040	0.0040	1.00		10/26/2022 11:50	10/27/22	16:58 NAH	EPA 6010C
TCLP Cadmium	0.022	mg/L	0.00041	0.0010	0.0020	0.0020	1.00		10/26/2022 11:50	10/27/22	16:58 NAH	EPA 6010C
TCLP Chromium	0.0018	mg/L	0.0011	0.0025	0.0050	0.0050	1.00	J	10/26/2022 11:50	10/27/22	16:58 NAH	EPA 6010C
TCLP Selenium	<0.010	mg/L	0.010	0.020	0.040	0.040	1.00	U	10/26/2022 11:50	10/27/22	16:58 NAH	EPA 6010C
TCLP Silver	<0.0011	mg/L	0.0011	0.0025	0.0050	0.0050	1.00	U	10/26/2022 11:50	10/27/22	16:58 NAH	EPA 6010C
TCLP Mercury	0.0048	mg/L	0.00002	0.00008	0.00012	0.00012	1.00		10/26/2022 11:50	11/8/22	12:40 MDS	EPA 7470A

CT LAB#: 1256628	Sample Description: CM-WC-SC-TST-221020	Client Sample #:	Sampled: 10/20/2022 16:51
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results												
TCLP Arsenic	0.0088	mg/L	0.0077	0.020	0.040	0.040	1.00	J	10/26/2022 11:50	10/27/22	17:45 NAH	EPA 6010C
TCLP Barium	0.19	mg/L	0.00071	0.0020	0.0040	0.0040	1.00		10/26/2022 11:50	10/27/22	17:45 NAH	EPA 6010C
TCLP Cadmium	0.25	mg/L	0.00041	0.0010	0.0020	0.0020	1.00		10/26/2022 11:50	10/27/22	17:45 NAH	EPA 6010C

CT LAB#: 1256628	Sample Description: CM-WC-SC-TST-221020	Client Sample #:	Sampled: 10/20/2022 16:51
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TCLP Chromium	0.0029	mg/L	0.0011	0.0025	0.0050	0.0050	1.00	J	10/26/2022 11:50	10/27/22	17:45 NAH	EPA 6010C
TCLP Selenium	<0.010	mg/L	0.010	0.020	0.040	0.040	1.00	U	10/26/2022 11:50	10/27/22	17:45 NAH	EPA 6010C
TCLP Silver	<0.0011	mg/L	0.0011	0.0025	0.0050	0.0050	1.00	U	10/26/2022 11:50	10/27/22	17:45 NAH	EPA 6010C
TCLP Mercury	0.0017	mg/L	0.00002	0.00008	0.00012	0.00012	1.00		10/26/2022 11:50	11/8/22	12:43 MDS	EPA 7470A

CT LAB#: 1256629	Sample Description: CM-WC-SC-TG1-221021	Client Sample #:	Sampled: 10/21/2022 11:55
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results												
TCLP Arsenic	0.0087	mg/L	0.0077	0.020	0.040	0.040	1.00	J	10/26/2022 11:50	10/27/22	18:14 NAH	EPA 6010C
TCLP Barium	0.41	mg/L	0.00071	0.0020	0.0040	0.0040	1.00		10/26/2022 11:50	10/27/22	18:14 NAH	EPA 6010C
TCLP Cadmium	<0.00041	mg/L	0.00041	0.0010	0.0020	0.0020	1.00	U	10/26/2022 11:50	10/27/22	18:14 NAH	EPA 6010C
TCLP Chromium	0.0032	mg/L	0.0011	0.0025	0.0050	0.0050	1.00	J	10/26/2022 11:50	10/27/22	18:14 NAH	EPA 6010C
TCLP Selenium	<0.010	mg/L	0.010	0.020	0.040	0.040	1.00	U	10/26/2022 11:50	10/27/22	18:14 NAH	EPA 6010C
TCLP Silver	<0.0011	mg/L	0.0011	0.0025	0.0050	0.0050	1.00	U	10/26/2022 11:50	10/27/22	18:14 NAH	EPA 6010C
TCLP Mercury	<0.00002	mg/L	0.00002	0.00008	0.00012	0.00012	1.00	U	10/26/2022 11:50	11/8/22	12:46 MDS	EPA 7470A

Notes:

^ Indicates the laboratory is NELAP accredited for this analyte by the indicated matrix and method . DL (detection limit), LOD (limit of detection), loq (limit of quantitation) as defined by most recent DOD QSM version.

All samples were received intact and properly preserved unless otherwise noted . The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for the parameters where accreditation is required or available, unless noted in the case narrative.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

Reason for Revision: Data Qualifier definitions were added to the report.

QC Qualifiers		Current CT Laboratories Certifications
Code	Description	
B	Analyte detected in the associated Method Blank.	Wisconsin (WDNR) Chemistry ID# 157066030 Wisconsin (DATCP) Bacteriology ID# 289 Louisiana NELAP (primary) ID# 115843 Illinois NELAP Lab ID# 200073 Kansas NELAP Lab ID# E-10368 Virginia NELAP Lab ID# 460203 ISO/IEC 17025-2005 A2LA Cert # 3806.01 DoD-ELAP A2LA 3806.01
C	Toxicity present in BOD sample.	
D	Diluted Out.	
E	Safe, No Total Coliform detected.	
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	
H	Holding time exceeded.	
I	Incubator temperature was outside acceptance limits during test period.	
J	Estimated value.	
L	Significant peaks were detected outside the chromatographic window.	
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	
N	Insufficient BOD oxygen depletion.	
O	Complete BOD oxygen depletion.	
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	
Q	Laboratory Control Sample outside acceptance limits.	
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Y	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

QC Summary Report

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173328

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	266644	Analysis Date:	10/27/2022	Prep Batch #:	127490	Matrix:	TCLP
CTLab #:	1256683	Analysis Time:	17:14	Prep Date/Time:	10/26/2022 15:48	Method:	SW6010
Parent Sample #:	1256627	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.00923	mg/L	0.010				0.040	8	20
Barium	0.266	mg/L	0.27				0.0040	1	20
Cadmium	0.022	mg/L	0.022				0.0020	0	20
Chromium	0.00182	mg/L	0.0018				0.0050	1	20
Selenium	0.010	mg/L	<0.010	U			0.010	0	20
Silver	0.0011	mg/L	<0.0011	U			0.0050	0	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173328

Project #: 103X903100320001DH108

Lab Control Spike Water

Analytical Run #:	266644	Analysis Date:	10/27/2022	Prep Batch #:	127490	Matrix:	LIQUID
CTLab #:	1256682	Analysis Time:	16:44	Prep Date/Time:	10/26/2022 15:48	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	4.35	mg/L			4.0	109	87 --- 113		
Barium	3.99	mg/L			4.0	100	88 --- 113		
Cadmium	0.0927	mg/L			0.1	93	88 --- 113		
Chromium	0.387	mg/L			0.4	97	90 --- 113		
Selenium	4.19	mg/L			4.0	105	83 --- 114		
Silver	0.109	mg/L			0.1	109	84 --- 115		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173328

Project #: 103X903100320001DH108

Method Blank Water

Analytical Run #:	266644	Analysis Date:	10/27/2022	Prep Batch #:	127490	Matrix:	LIQUID
CTLab #:	1256681	Analysis Time:	16:51	Prep Date/Time:	10/26/2022 15:48	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.0077	mg/L		U	0		0.020		
Barium	2	mg/L		U	0		2		
Cadmium	0.00041	mg/L		U	0		0.0010		
Chromium	0.0011	mg/L		U	0		0.0025		
Selenium	0.010	mg/L		U	0		0.020		
Silver	0.0011	mg/L		U	0		0.0025		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173328

Project #: 103X903100320001DH108

Matrix Spike Duplicate Water

Analytical Run #:	266644	Analysis Date:	10/27/2022	Prep Batch #:	127490	Matrix:	TCLP
CTLab #:	1256685	Analysis Time:	17:30	Prep Date/Time:	10/26/2022 15:48	Method:	SW6010
Parent Sample #:	1256684	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	4.39	mg/L	0.010		4.0	110	87 --- 113	1	20
Barium	4.26	mg/L	0.27		4.0	100	88 --- 113	1	20
Cadmium	0.134	mg/L	0.022		0.1	112	88 --- 113	1	20
Chromium	0.375	mg/L	0.0018		0.4	93	90 --- 113	1	20
Selenium	4.20	mg/L	BDL		4.0	105	83 --- 114	1	20
Silver	0.11	mg/L	BDL		0.1	110	84 --- 115	0	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173328

Project #: 103X903100320001DH108

Matrix Spike Water

Analytical Run #:	266644	Analysis Date:	10/27/2022	Prep Batch #:	127490	Matrix:	TCLP
CTLab #:	1256684	Analysis Time:	17:23	Prep Date/Time:	10/26/2022 15:48	Method:	SW6010
Parent Sample #:	1256627	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	4.43	mg/L	0.010		4.0	110	87 --- 113		20
Barium	4.30	mg/L	0.27		4.0	101	88 --- 113		20
Cadmium	0.135	mg/L	0.022		0.1	113	88 --- 113		20
Chromium	0.38	mg/L	0.0018		0.4	95	90 --- 113		20
Selenium	4.23	mg/L	BDL		4.0	106	83 --- 114		20
Silver	0.11	mg/L	BDL		0.1	110	84 --- 115		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173328

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	267046	Analysis Date:	11/8/2022	Prep Batch #:	127570	Matrix:	TCLP
CTLab #:	1257687	Analysis Time:	12:50	Prep Date/Time:	11/07/2022 13:10	Method:	SW7470A
Parent Sample #:	1256628	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00183	mg/L	0.0017				0.12	7	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173328

Project #: 103X903100320001DH108

Lab Control Spike Water

Analytical Run #:	267046	Analysis Date:	11/8/2022	Prep Batch #:	127570	Matrix:	LIQUID
CTLab #:	1257686	Analysis Time:	12:31	Prep Date/Time:	11/07/2022 13:10	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00195	mg/L			0.002	98	82 --- 119		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173328

Project #: 103X903100320001DH108

Method Blank Water

Analytical Run #:	267046	Analysis Date:	11/8/2022	Prep Batch #:	127570	Matrix:	LIQUID
CTLab #:	1257685	Analysis Time:	12:37	Prep Date/Time:	11/07/2022 13:10	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.000020	mg/L		U	0		0.00006		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173328

Project #: 103X903100320001DH108

Matrix Spike Duplicate Water

Analytical Run #:	267046	Analysis Date:	11/8/2022	Prep Batch #:	127570	Matrix:	TCLP
CTLab #:	1257689	Analysis Time:	13:34	Prep Date/Time:	11/07/2022 13:10	Method:	SW7470A
Parent Sample #:	1257688	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00363	mg/L	0.0017		0.002	96	82 --- 119	2	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173328

Project #: 103X903100320001DH108

Matrix Spike Water

Analytical Run #:	267046	Analysis Date:	11/8/2022	Prep Batch #:	127570	Matrix:	TCLP
CTLab #:	1257688	Analysis Time:	13:31	Prep Date/Time:	11/07/2022 13:10	Method:	SW7470A
Parent Sample #:	1256628	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00357	mg/L	0.0017		0.002	94	82 --- 119		20

Sample Condition Report

Folder #:	173328	Print Date / Time:	11/01/2022	09:53
Client:	TETRA TECH	Received Date / Time / By:	10/22/2022	10:30 erc
Project Name:	CHUDNOW METALS	Log-In Date / Time / By:	11/01/2022	09:53 BMS
Project Phase:	MILWAUKEE, WI	Project #:	103X903100320001DH108	PM: BMS
Coolers:	UNMARKED	Temperature:	5.8 C	On Ice: Y
Custody Seals Present :	Y	COC Present:?	Y	Complete? Y
Seal Intact?	Y	Numbers:	SIGNED AND DATED	
Ship Method:	FEDEX SAT 1ST OVRNT	Tracking Number:	7702 7377 7360	
Adequate Packaging:	Y	Temp Blank Enclosed?	Y	

Notes: THE SAMPLES ASSOCIATED WITH THIS FOLDER WERE ORIGINALLY ANALYZED FOR TCLP-LEAD ONLY (FOLDER/SDG # 173144). PER THE CLIENT'S REQUEST, THE SAMPLES WERE LOGGED FOR THE SEVEN (7) ADDITIONAL RCRA METALS.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1256627 CM-WC-SC-TF3-221021	SOLIDS	1	/	HG,ICP
Total # of Containers of Type (SOLIDS) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1256628 CM-WC-SC-TST-221020	SOLIDS	1	/	HG,ICP
Total # of Containers of Type (SOLIDS) = 1				

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1256629 CM-WC-SC-TG1-221021	SOLIDS	1	/	HG,ICP
Total # of Containers of Type (SOLIDS) = 1				

Condition Code	Condition Description
1	Sample Received OK

CHAIN OF CUSTODY

Company: Tetra Tech
 Project Contact: Rachel Houle
 Telephone: 708-955-4569
 Project Name: Chudnow Metals
 Project #: 103X90310032000H108
 Location: Milwaukee WI
 Sampled By: Alexia Scholl

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Report To:
 EMAIL: rachel.houle@tetratech.com
 Company: Tetra Tech
 Address:

Folder #: 173144

Folder #: 173145

Company: TETRA TECH

Company: TETRA TECH

Project: CHUDNOW

Project: CHUDNOW METALS

Logged By: erc

Logged By: erc PM: BMS

WA NPDES

1er _____

Invoice To:*

EMAIL: Tetra Tech
 Company: Accounts Payable
 Address:

listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

* Added 11/01/2022, per client request.

173304
 11/01/2022
 BMS

ANALYSES REQUESTED

Filtered? Y/N

TCUP Lead

Paint Filter

Metals, Solids

SVC, PCB, PH

VOC

TCUP RCRA Metals*

Total # Containers

Designated MS/MSD

Turnaround Time

Normal RUSH*

Date Needed: 4 Day/ASAP

Rush analysis requires prior
 CT Laboratories' approval

Surcharges:

24 hr 200%

2-3 days 100%

4-9 days 50%

Matrix:

GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

Collection		Matrix	Grab/ Comp	Sample #	Sample ID Description	Fill in Spaces with Bottles per Test															CT Lab ID # <small>Lab use only</small>	
Date	Time																					
10/21/22	0824	S	C		CM- ^{WC} ES -SC-TF3-221021	X	X					X						125	662	7	1252536,37	
10/20/22	1051				CM-WC-SC-TST-221020	X	X					X						125	662	8	38,39	
10/20/22	1104				CM-BF-LQ-221020			X	X	X											42	
10/20/22	1127	↓	↓		CM-BF-LP-221020			X	X	X											43	
10/21/22	1155	↓	↓		CM-WC-SC-TG1-221021	X	X					X						125	662	9	40,41	

Folder #: 173328																						
Company: TETRA TECH																						
Project: CHUDNOW METALS																						
Logged By: BMS PM: BMS																						

Relinquished By:

Alexia Scholl

Date/Time

10/21/22

Received By:

Date/Time

Received by:

Date/Time

Received for Laboratory by:

Date/Time

10/21/22 11:47

Lab Use Only

Ice Present ☒ Yes ☐ No

Temp 58°C IR Gun SRT28

Cooler # XXXX

Szymanski, Brett M

From: Houle, Rachel <Rachel.Houle@tetrattech.com>
Sent: 11/01/2022 09:30
To: Szymanski, Brett M; Scholl, Alexia
Subject: Re: Chudnow Metals (Waste Characterization) Analytical Report, EDD, & Invoice - Folder/SDG # 173144



Hi Brett,

We just found out that we need TCLP results for the 8 other RCRA metals as well. Can you please run for these one these treated samples? We will need the fastest possible TAT.

Thank you,

Rachel

From: Szymanski, Brett M <BSzymanski@ctlaboratories.com>
Sent: Friday, October 28, 2022 1:14:20 PM
To: Houle, Rachel <Rachel.Houle@tetrattech.com>
Cc: Scholl, Alexia <ALEXIA.SCHOLL@tetrattech.com>; Welch, Bruce <Bruce.Welch@tetrattech.com>; Cooper, Taylor <TAYLOR.COOPER@tetrattech.com>; STARTVDataValidation <STARTVDataValidation@tetrattech.com>
Subject: Chudnow Metals (Waste Characterization) Analytical Report, EDD, & Invoice - Folder/SDG # 173144

 **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. 

Hello Rachel,

Attached are the Level II analytical report, EDD, and invoice for the Chudnow Metals waste characterization/treatability samples that were received by CT Labs on 10/22/2022 (Folder/SDG # 173144).

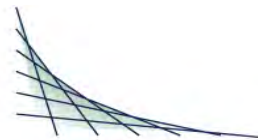
Have a nice afternoon,

Brett Szymanski
Project Manager
CT Laboratories LLC
a woman-owned small business
1230 Lange Court
Baraboo, WI 53913
608-356-2760 office
608-356-2766 fax
www.ctlaboratories.com

Let us know how we're doing. Click [Here](#) to take our Customer Survey.

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This email was scanned by Bitdefender



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.



ANALYTICAL REPORT

TETRA TECH
 RACHEL HOULE
 1 S WACKER DRIVE
 SUITE 3700
 CHICAGO, IL 60606
 Copy: R5 START LIST

Project Name: CHUDNOW METALS
 Project Phase: MILWAUKEE, WI
 Contract #: 3509
 Project #: 103X903100320001DH108
 Folder #: 173419
 Purchase Order #: 1168710 / CT-53

Page 1 of 4
 Arrival Temperature: 5.5
 Report Date: 11/9/2022
 Date Received: 11/3/2022
 Reprint Date: 11/9/2022

CT LAB#: 1257948 Sample Description: CM-WC-SC-TST-221102 Client Sample #: Sampled: 10/20/2022 16:51

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results												
TCLP Arsenic	0.0077	mg/L	0.0077	0.02	0.04	0.04	1.00	J	11/7/2022 08:25	11/8/22 14:20	NAH	EPA 6010C
TCLP Barium	0.18	mg/L	0.00071	0.002	0.004	0.004	1.00		11/7/2022 08:25	11/8/22 14:20	NAH	EPA 6010C
TCLP Cadmium	0.26	mg/L	0.00041	0.001	0.002	0.002	1.00		11/7/2022 08:25	11/8/22 14:20	NAH	EPA 6010C
TCLP Chromium	0.01	mg/L	0.0011	0.0025	0.005	0.005	1.00		11/7/2022 08:25	11/8/22 14:20	NAH	EPA 6010C
TCLP Lead	0.94	mg/L	0.0014	0.002	0.004	0.004	1.00		11/7/2022 08:25	11/8/22 14:20	NAH	EPA 6010C
TCLP Selenium	<0.01	mg/L	0.01	0.02	0.04	0.04	1.00	U	11/7/2022 08:25	11/8/22 14:20	NAH	EPA 6010C
TCLP Silver	<0.0011	mg/L	0.0011	0.0025	0.005	0.005	1.00	U	11/7/2022 08:25	11/8/22 14:20	NAH	EPA 6010C
TCLP Mercury	0.011	mg/L	0.00010	0.00040	0.0006	0.0006	5.00		11/7/2022 08:25	11/8/22 14:50	MDS	EPA 7470A

CT LAB#: 1257949 Sample Description: CM-WC-SC-TF3-221102 Client Sample #: Sampled: 10/21/2022 08:24

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results												
TCLP Arsenic	<0.0077	mg/L	0.0077	0.02	0.04	0.04	1.00	U	11/7/2022 08:25	11/8/22 15:19	NAH	EPA 6010C
TCLP Barium	0.20	mg/L	0.00071	0.002	0.004	0.004	1.00		11/7/2022 08:25	11/8/22 15:19	NAH	EPA 6010C

CT LAB#: 1257949	Sample Description: CM-WC-SC-TF3-221102	Client Sample #:	Sampled: 10/21/2022 08:24
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TCLP Cadmium	0.14	mg/L	0.00041	0.001	0.002	0.002	1.00		11/7/2022 08:25	11/8/22	15:19 NAH	EPA 6010C
TCLP Chromium	0.0032	mg/L	0.0011	0.0025	0.005	0.005	1.00	J	11/7/2022 08:25	11/8/22	15:19 NAH	EPA 6010C
TCLP Lead	0.28	mg/L	0.0014	0.002	0.004	0.004	1.00		11/7/2022 08:25	11/8/22	15:19 NAH	EPA 6010C
TCLP Selenium	<0.01	mg/L	0.01	0.02	0.04	0.04	1.00	U	11/7/2022 08:25	11/8/22	15:19 NAH	EPA 6010C
TCLP Silver	<0.0011	mg/L	0.0011	0.0025	0.005	0.005	1.00	U	11/7/2022 08:25	11/8/22	15:19 NAH	EPA 6010C
TCLP Mercury	0.16	mg/L	0.0020	0.0080	0.012	0.0120	100.00	M	11/7/2022 08:25	11/8/22	14:40 MDS	EPA 7470A

CT LAB#: 1257950	Sample Description: CM-WC-SC-TG1-221102	Client Sample #:	Sampled: 10/21/2022 11:55
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results												
TCLP Arsenic	<0.0077	mg/L	0.0077	0.02	0.04	0.04	1.00	U	11/7/2022 08:25	11/8/22	15:27 NAH	EPA 6010C
TCLP Barium	0.33	mg/L	0.00071	0.002	0.004	0.004	1.00		11/7/2022 08:25	11/8/22	15:27 NAH	EPA 6010C
TCLP Cadmium	0.0076	mg/L	0.00041	0.001	0.002	0.002	1.00		11/7/2022 08:25	11/8/22	15:27 NAH	EPA 6010C
TCLP Chromium	0.0035	mg/L	0.0011	0.0025	0.005	0.005	1.00	J	11/7/2022 08:25	11/8/22	15:27 NAH	EPA 6010C
TCLP Lead	0.0059	mg/L	0.0014	0.002	0.004	0.004	1.00		11/7/2022 08:25	11/8/22	15:27 NAH	EPA 6010C
TCLP Selenium	<0.01	mg/L	0.01	0.02	0.04	0.04	1.00	U	11/7/2022 08:25	11/8/22	15:27 NAH	EPA 6010C
TCLP Silver	<0.0011	mg/L	0.0011	0.0025	0.005	0.005	1.00	U	11/7/2022 08:25	11/8/22	15:27 NAH	EPA 6010C
TCLP Mercury	0.00088	mg/L	0.00002	0.00008	0.00012	0.00012	1.00		11/7/2022 08:25	11/8/22	14:47 MDS	EPA 7470A

CT LAB#: 1258158	Sample Description: CM-WC-SC-TST-221102	Client Sample #:	Sampled: 10/20/2022 16:51
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Free Liquids	ABSENT						1.00			11/7/22	14:17 HLB	EPA 9095B

CT LAB#: 1258159	Sample Description: CM-WC-SC-TF3-221102	Client Sample #:	Sampled: 10/21/2022 08:24
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Inorganic Results

Free Liquids	ABSENT						1.00			11/7/22 14:30	HLB	EPA 9095B ^
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CT LAB#: 1258160	Sample Description: CM-WC-SC-TG1-221102	Client Sample #:	Sampled: 10/21/2022 11:55
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Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Inorganic Results

Free Liquids	ABSENT						1.00			11/7/22 14:37	HLB	EPA 9095B ^
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Notes:

^ Indicates the laboratory is NELAP accredited for this analyte by the indicated matrix and method . DL (detection limit), LOD (limit of detection), loq (limit of quantitation) as defined by most recent DOD QSM version.

All samples were received intact and properly preserved unless otherwise noted . The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for the parameters where accreditation is required or available, unless noted in the case narrative.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers		Current CT Laboratories Certifications
Code	Description	
B	Analyte detected in the associated Method Blank.	Wisconsin (WDNR) Chemistry ID# 157066030 Wisconsin (DATCP) Bacteriology ID# 289 Louisiana NELAP (primary) ID# 115843 Illinois NELAP Lab ID# 200073 Kansas NELAP Lab ID# E-10368 Virginia NELAP Lab ID# 460203 ISO/IEC 17025-2005 A2LA Cert # 3806.01 DoD-ELAP A2LA 3806.01
C	Toxicity present in BOD sample.	
D	Diluted Out.	
E	Safe, No Total Coliform detected.	
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	
H	Holding time exceeded.	
I	Incubator temperature was outside acceptance limits during test period.	
J	Estimated value.	
L	Significant peaks were detected outside the chromatographic window.	
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	
N	Insufficient BOD oxygen depletion.	
O	Complete BOD oxygen depletion.	
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	
Q	Laboratory Control Sample outside acceptance limits.	
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Y	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

QC Summary Report

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173419

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	267023	Analysis Date:	11/8/2022	Prep Batch #:	127640	Matrix:	TCLP
CTLab #:	1259659	Analysis Time:	14:36	Prep Date/Time:	11/07/2022 14:56	Method:	SW6010
Parent Sample #:	1257948	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.0089	mg/L	0.0077				-0.1 0.1	14	20
Barium	0.187	mg/L	0.18				0.0040	4	20
Cadmium	0.289	mg/L	0.26				0.0020	11	20
Chromium	0.0104	mg/L	0.01				0.0050	4	20
Lead	0.986	mg/L	0.94				0.0040	5	20
Selenium	0.01	mg/L	<0.01	U			0.010	0	20
Silver	0.0011	mg/L	<0.0011	U			0.0050	0	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173419

Project #: 103X903100320001DH108

Lab Control Spike Water

Analytical Run #:	267023	Analysis Date:	11/8/2022	Prep Batch #:	127640	Matrix:	LIQUID
CTLab #:	1259658	Analysis Time:	14:06	Prep Date/Time:	11/07/2022 14:56	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	3.90	mg/L			4.0	98	87 --- 113		
Barium	3.58	mg/L			4.0	90	88 --- 113		
Cadmium	0.102	mg/L			0.1	102	88 --- 113		
Chromium	0.379	mg/L			0.4	95	90 --- 113		
Lead	0.864	mg/L			1.0	86	86 --- 113		
Selenium	3.84	mg/L			4.0	96	83 --- 114		
Silver	0.0966	mg/L			0.1	97	84 --- 115		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173419

Project #: 103X903100320001DH108

Method Blank Water

Analytical Run #:	267023	Analysis Date:	11/8/2022	Prep Batch #:	127640	Matrix:	LIQUID
CTLab #:	1259657	Analysis Time:	14:13	Prep Date/Time:	11/07/2022 14:56	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.0077	mg/L		U	0		0.020		
Barium	0.00071	mg/L		U	0		0.0020		
Cadmium	0.00041	mg/L		U	0		0.0010		
Chromium	0.0011	mg/L		U	0		0.0025		
Lead	0.0014	mg/L		U	0		0.0020		
Selenium	0.010	mg/L		U	0		0.020		
Silver	0.0011	mg/L		U	0		0.0025		

Matrix Spike Duplicate Water

Analytical Run #:	267023	Analysis Date:	11/8/2022	Prep Batch #:	127640	Matrix:	TCLP
CTLab #:	1259661	Analysis Time:	14:51	Prep Date/Time:	11/07/2022 14:56	Method:	SW6010
Parent Sample #:	1259660	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	4.31	mg/L	0.0077		4.0	108	50 --- 150	0	20
Barium	3.98	mg/L	0.18		4.0	95	50 --- 150	1	20
Cadmium	0.406	mg/L	0.26		0.1	146	50 --- 150	9	20
Chromium	0.393	mg/L	0.01		0.4	96	50 --- 150	2	20
Lead	2.11	mg/L	0.94		1.0	117	50 --- 150	1	20
Selenium	4.10	mg/L	BDL		4.0	102	50 --- 150	0	20
Silver	0.106	mg/L	BDL		0.1	106	50 --- 150	1	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173419

Project #: 103X903100320001DH108

Matrix Spike Water

Analytical Run #:	267023	Analysis Date:	11/8/2022	Prep Batch #:	127640	Matrix:	TCLP
CTLab #:	1259660	Analysis Time:	14:44	Prep Date/Time:	11/07/2022 14:56	Method:	SW6010
Parent Sample #:	1257948	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	4.30	mg/L	0.0077		4.0	107	50 --- 150		20
Barium	3.93	mg/L	0.18		4.0	94	50 --- 150		20
Cadmium	0.371	mg/L	0.26		0.1	111	50 --- 150		20
Chromium	0.399	mg/L	0.01		0.4	97	50 --- 150		20
Lead	2.09	mg/L	0.94		1.0	115	50 --- 150		20
Selenium	4.11	mg/L	BDL		4.0	103	50 --- 150		20
Silver	0.107	mg/L	BDL		0.1	107	50 --- 150		20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173419

Project #: 103X903100320001DH108

Duplicate

Analytical Run #:	267050	Analysis Date:	11/8/2022	Prep Batch #:	127638	Matrix:	TCLP
CTLab #:	1259329	Analysis Time:	14:44	Prep Date/Time:	11/07/2022 15:10	Method:	SW7470A
Parent Sample #:	1257949	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.159	mg/L	0.16				0.12	1	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173419

Project #: 103X903100320001DH108

Lab Control Spike Water

Analytical Run #:	267050	Analysis Date:	11/8/2022	Prep Batch #:	127638	Matrix:	LIQUID
CTLab #:	1259328	Analysis Time:	14:12	Prep Date/Time:	11/07/2022 15:10	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00201	mg/L			0.002	100	82 --- 119		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173419

Project #: 103X903100320001DH108

Method Blank Water

Analytical Run #:	267050	Analysis Date:	11/8/2022	Prep Batch #:	127638	Matrix:	LIQUID
CTLab #:	1259327	Analysis Time:	14:18	Prep Date/Time:	11/07/2022 15:10	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.000020	mg/L		U	0		0.00006		

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173419

Project #: 103X903100320001DH108

Matrix Spike Duplicate Water

Analytical Run #:	267050	Analysis Date:	11/8/2022	Prep Batch #:	127638	Matrix:	TCLP
CTLab #:	1259331	Analysis Time:	14:56	Prep Date/Time:	11/07/2022 15:10	Method:	SW7470A
Parent Sample #:	1259330	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.164	mg/L	0.16		0.002	200	82 --- 119	3	20

TETRA TECH

Project Name: CHUDNOW METALS

SDG #: 0

Folder #: 173419

Project #: 103X903100320001DH108

Matrix Spike Water

Analytical Run #:	267050	Analysis Date:	11/8/2022	Prep Batch #:	127638	Matrix:	TCLP
CTLab #:	1259330	Analysis Time:	14:53	Prep Date/Time:	11/07/2022 15:10	Method:	SW7470A
Parent Sample #:	1257949	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.169	mg/L	0.16		0.002	450	82 --- 119		20

Sample Condition Report

Folder #:	173419	Print Date / Time:	11/03/2022	10:05	
Client:	TETRA TECH	Received Date / Time / By:	11/03/2022	10:01	erc
Project Name:	CHUDNOW METALS	Log-In Date / Time / By:	11/03/2022	10:05	erc
Project Phase:	MILWAUKEE, WI	Project #:	103X903100320001DH108	PM:	BMS
Coolers:	UNMARKED	Temperature:	5.5 C	On Ice:	Y
Custody Seals Present :	Y	COC Present:?	Y	Complete?	Y
Seal Intact?	Y	Numbers:	DATED AND SIGNED		
Ship Method:	FEDEX EXPRESS	Tracking Number:	7703 7968 3630		
Adequate Packaging:	Y	Temp Blank Enclosed?	N		

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

ONE (1) CUSTODY SEAL WAS PRESENT AND INTACT UPON RECEIPT (DATED 11-02-22 AND SIGNED).

FREE LIQUIDS ANALYSIS WAS ADDED TO THESE SAMPLES, PER THE CLIENT'S REQUEST.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1257948 CM-WC-SC-TST-221102	SOLIDS	1	/	HG,ICP
Total # of Containers of Type (SOLIDS) = 1				
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1257949 CM-WC-SC-TF3-221102	SOLIDS	1	/	HG,ICP
Total # of Containers of Type (SOLIDS) = 1				
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1257950 CM-WC-SC-TG1-221102	SOLIDS	1	/	HG,ICP
Total # of Containers of Type (SOLIDS) = 1				
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1258158 CM-WC-SC-TST-221102	SOLIDS	1	/	%SOL,FLIQ
Total # of Containers of Type (SOLIDS) = 1				
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1258159 CM-WC-SC-TF3-221102	SOLIDS	1	/	%SOL,FLIQ
Total # of Containers of Type (SOLIDS) = 1				
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

SOLIDS1/ %SOL,FLIQ

Total # of Containers of Type (SOLIDS) = 1

Condition Code	Condition Description
1	Sample Received OK

173419 - Page 18 of 20

ORIGIN ID#AKEA (815) 993-8333
ALEXIA SCHOLL
TETRA TECH INC
5401 S STATE ST
MILWAUKEE, WI 53208

UNITED STATES US

SHIP DATE: 02NOV/22
ACTWGT: 15.00 LB
CAD: 102185850/NET/4530
BILL SENDER

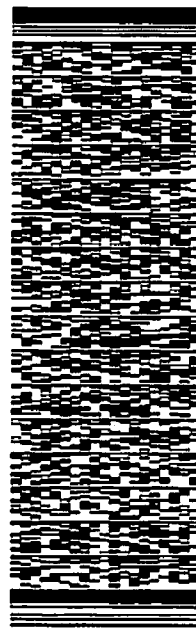
TO DENNIS LINLEY
CT LABORATORIES, LLC
1230 LANGE CT.

BARABOO WI 53913

(808) 358-2760

REF: 10399310000001D1H108

PO. DEPT.

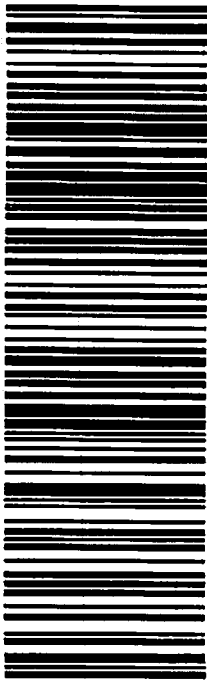


TRK# 7703 7968 3630
0201

THU 03 NOV 10:30A
PRIORITY OVERNIGHT

55 LNRA

53913
WI-US MSN



581,24548/FE2D

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 2. Fold the print.
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Ice Present Yes No
Temperature 5-5 28
Initials En
Date 11/2/22 Time 1001
Cooler # 282

Szymanski, Brett M

From: Houle, Rachel <Rachel.Houle@tetrattech.com>
Sent: 11/04/2022 09:01
To: Szymanski, Brett M
Cc: Scholl, Alexia; Welch, Bruce; Cooper, Taylor; STARTVDataValidation
Subject: RE: Chudnow Metals Sample Receipt Documents - Folder/SDG # 173419



Thank you, Brett.

I spoke with EPA last night and they requested that we go ahead with the Paint Filter analysis for these samples. Can we please add that analysis at this time?

Thank you,

Rachel

From: Szymanski, Brett M <BSzymanski@ctlaboratories.com>
Sent: Friday, November 4, 2022 8:47 AM
To: Houle, Rachel <Rachel.Houle@tetrattech.com>
Cc: Scholl, Alexia <ALEXIA.SCHOLL@tetrattech.com>; Welch, Bruce <Bruce.Welch@tetrattech.com>; Cooper, Taylor <TAYLOR.COOPER@tetrattech.com>; STARTVDataValidation <STARTVDataValidation@tetrattech.com>
Subject: Chudnow Metals Sample Receipt Documents - Folder/SDG # 173419

 **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. 

Hello Rachel,

Attached are the receipt documents for the Chudnow Metals samples that arrived at our facility on 11/03/2022.

Have a nice day,

Brett Szymanski
Project Manager
CT Laboratories LLC
a woman-owned small business
1230 Lange Court
Baraboo, WI 53913
608-356-2760 office
608-356-2766 fax
www.ctlaboratories.com

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ATTACHMENT 3

**CONFIRMATION SOIL SAMPLING ANALYTICAL REPORTS – 629-627: J174870, J175006,
J175050, J175238, J175313, J175429**

ANALYTICAL REPORT

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-174870-1
Client Project/Site: Chudnow Metals
Revision: 1

For:
Tetra Tech EM Inc.
1 South Wacker Drive 37 Floor
Ste. 3700
Chicago, Illinois 60606

Attn: Rachel Houle



Authorized for release by:
10/20/2022 1:52:10 PM

Jim Knapp, Project Manager II
(630)758-0262
Jim.Knapp@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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QC Sample Results	26
QC Association Summary	27
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Certification Summary	35
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Definitions/Glossary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Job ID: 240-174870-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-174870-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 10/20/2022. The report (revision 1) is being revised due to: The reports and EDDs have been revised to include total PCBs per client request.

Receipt

The samples were received on 10/18/2022 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8° C.

GC Semi VOA

Method 8082A: The following samples appears to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: CM-CS-F4-628-627-221014 (240-174870-2), CM-CS-E4-628-627-221014 (240-174870-3), CM-CS-E4-629-628-221014 (240-174870-4), CM-CS-B4-629-628-221017 (240-174870-5), CM-CS-B4-628-627-221017 (240-174870-6), CM-CS-C3-629-628-221017 (240-174870-7), CM-CS-C3-628-627-221017 (240-174870-8), CM-CS-C4-629-628-221017 (240-174870-9), CM-CS-D3-629-628-221017 (240-174870-11), CM-CS-D3-628-627-221017 (240-174870-12), CM-CS-D4-629-628-221017 (240-174870-13), CM-CS-D4-628-627-221017 (240-174870-14), CM-CS-E3-629-628-221017 (240-174870-15) and CM-CS-E3-628-627-221017 (240-174870-16). The samples have been quantified and reported using the best overall Aroclor/standard pattern match.

Method 8082A: The following samples were diluted due to abundance of target analytes : CM-CS-F4-628-627-221014 (240-174870-2), CM-CS-E4-628-627-221014 (240-174870-3), CM-CS-D4-629-628-221017 (240-174870-13), CM-CS-D4-628-627-221017 (240-174870-14) and CM-CS-E3-628-627-221017 (240-174870-16). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8082A: The following sample was diluted due to abundance of target analytes: CM-CS-C4-628-627-221017 (240-174870-10). As such, surrogate recoveries are below the calibration range and elevated reporting limits (RLs) are provided.

Method 8082A: The following samples were diluted due to the abundance of target analytes : (240-174459-C-26-B MS) and (240-174459-C-26-C MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Method Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAN
Moisture	Percent Moisture	EPA	EET CAN
3546	Microwave Extraction	SW846	EET CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-174870-1	CM-CS-F4-629-628-221014	Solid	10/14/22 10:15	10/18/22 15:00
240-174870-2	CM-CS-F4-628-627-221014	Solid	10/14/22 10:15	10/18/22 15:00
240-174870-3	CM-CS-E4-628-627-221014	Solid	10/14/22 10:25	10/18/22 15:00
240-174870-4	CM-CS-E4-629-628-221014	Solid	10/14/22 10:25	10/18/22 15:00
240-174870-5	CM-CS-B4-629-628-221017	Solid	10/17/22 11:24	10/18/22 15:00
240-174870-6	CM-CS-B4-628-627-221017	Solid	10/17/22 11:24	10/18/22 15:00
240-174870-7	CM-CS-C3-629-628-221017	Solid	10/17/22 11:14	10/18/22 15:00
240-174870-8	CM-CS-C3-628-627-221017	Solid	10/17/22 11:14	10/18/22 15:00
240-174870-9	CM-CS-C4-629-628-221017	Solid	10/17/22 11:04	10/18/22 15:00
240-174870-10	CM-CS-C4-628-627-221017	Solid	10/17/22 11:04	10/18/22 15:00
240-174870-11	CM-CS-D3-629-628-221017	Solid	10/17/22 10:41	10/18/22 15:00
240-174870-12	CM-CS-D3-628-627-221017	Solid	10/17/22 10:41	10/18/22 15:00
240-174870-13	CM-CS-D4-629-628-221017	Solid	10/17/22 10:27	10/18/22 15:00
240-174870-14	CM-CS-D4-628-627-221017	Solid	10/17/22 10:27	10/18/22 15:00
240-174870-15	CM-CS-E3-629-628-221017	Solid	10/17/22 10:54	10/18/22 15:00
240-174870-16	CM-CS-E3-628-627-221017	Solid	10/17/22 10:54	10/18/22 15:00

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-F4-629-628-221014

Lab Sample ID: 240-174870-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	10000		3000	1100	ug/Kg	50	✱	8082A	Total/NA
Aroclor-1254	26000		3000	1300	ug/Kg	50	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	36000		3000	1800	ug/Kg	50	✱	8082A	Total/NA

Client Sample ID: CM-CS-F4-628-627-221014

Lab Sample ID: 240-174870-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	11000		3100	1200	ug/Kg	50	✱	8082A	Total/NA
Aroclor-1254	23000		3100	1300	ug/Kg	50	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	34000		3100	1800	ug/Kg	50	✱	8082A	Total/NA

Client Sample ID: CM-CS-E4-628-627-221014

Lab Sample ID: 240-174870-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	8600		3200	1200	ug/Kg	50	✱	8082A	Total/NA
Aroclor-1254	21000		3200	1300	ug/Kg	50	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	30000		3200	1900	ug/Kg	50	✱	8082A	Total/NA

Client Sample ID: CM-CS-E4-629-628-221014

Lab Sample ID: 240-174870-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	8400		1200	450	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	22000		1200	490	ug/Kg	20	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	30000		1200	700	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-B4-629-628-221017

Lab Sample ID: 240-174870-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	9700		1100	430	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	20000		1100	470	ug/Kg	20	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	30000		1100	670	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-B4-628-627-221017

Lab Sample ID: 240-174870-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	4800		1200	440	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	18000		1200	490	ug/Kg	20	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	23000		1200	700	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-C3-629-628-221017

Lab Sample ID: 240-174870-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	8700		1200	460	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	18000		1200	500	ug/Kg	20	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	27000		1200	720	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-C3-628-627-221017

Lab Sample ID: 240-174870-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	10000		1200	440	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	20000		1200	480	ug/Kg	20	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	30000		1200	690	ug/Kg	20	✱	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-C4-629-628-221017

Lab Sample ID: 240-174870-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	7100		1200	470	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	25000		1200	520	ug/Kg	20	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	32000		1200	740	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-C4-628-627-221017

Lab Sample ID: 240-174870-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	2900000		130000	50000	ug/Kg	2000	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	2900000		130000	79000	ug/Kg	2000	✱	8082A	Total/NA

Client Sample ID: CM-CS-D3-629-628-221017

Lab Sample ID: 240-174870-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	11000		1200	440	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	23000		1200	490	ug/Kg	20	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	34000		1200	700	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-D3-628-627-221017

Lab Sample ID: 240-174870-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	10000		620	230	ug/Kg	10	✱	8082A	Total/NA
Aroclor-1254	14000		620	260	ug/Kg	10	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	24000		620	370	ug/Kg	10	✱	8082A	Total/NA

Client Sample ID: CM-CS-D4-629-628-221017

Lab Sample ID: 240-174870-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	5200		1300	480	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	18000		1300	530	ug/Kg	20	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	23000		1300	750	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-D4-628-627-221017

Lab Sample ID: 240-174870-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	8100		1200	460	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	18000		1200	510	ug/Kg	20	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	26000		1200	730	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-E3-629-628-221017

Lab Sample ID: 240-174870-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	11000		1200	470	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	24000		1200	520	ug/Kg	20	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	35000		1200	740	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-E3-628-627-221017

Lab Sample ID: 240-174870-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	13000		3100	1200	ug/Kg	50	✱	8082A	Total/NA
Aroclor-1254	27000		3100	1300	ug/Kg	50	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	40000		3100	1900	ug/Kg	50	✱	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-F4-629-628-221014

Lab Sample ID: 240-174870-1

Date Collected: 10/14/22 10:15

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 85.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<3000		3000	1500	ug/Kg	✱	10/19/22 08:03	10/19/22 15:05	50
Aroclor-1221	<3000		3000	1800	ug/Kg	✱	10/19/22 08:03	10/19/22 15:05	50
Aroclor-1232	<3000		3000	1300	ug/Kg	✱	10/19/22 08:03	10/19/22 15:05	50
Aroclor-1242	10000		3000	1100	ug/Kg	✱	10/19/22 08:03	10/19/22 15:05	50
Aroclor-1248	<3000		3000	1000	ug/Kg	✱	10/19/22 08:03	10/19/22 15:05	50
Aroclor-1254	26000		3000	1300	ug/Kg	✱	10/19/22 08:03	10/19/22 15:05	50
Aroclor-1260	<3000		3000	1300	ug/Kg	✱	10/19/22 08:03	10/19/22 15:05	50
Aroclor-1262	<3000		3000	1300	ug/Kg	✱	10/19/22 08:03	10/19/22 15:05	50
Aroclor-1268	<3000		3000	960	ug/Kg	✱	10/19/22 08:03	10/19/22 15:05	50
Polychlorinated biphenyls, Total	36000		3000	1800	ug/Kg	✱	10/19/22 08:03	10/19/22 15:05	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	27	p	10 - 149	10/19/22 08:03	10/19/22 15:05	50
DCB Decachlorobiphenyl	0	S1-	10 - 174	10/19/22 08:03	10/19/22 15:05	50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	85.1		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	14.9		0.1	0.1	%			10/19/22 11:10	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-F4-628-627-221014

Lab Sample ID: 240-174870-2

Date Collected: 10/14/22 10:15

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 85.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<3100		3100	1500	ug/Kg	✱	10/19/22 08:03	10/19/22 15:22	50
Aroclor-1221	<3100		3100	1800	ug/Kg	✱	10/19/22 08:03	10/19/22 15:22	50
Aroclor-1232	<3100		3100	1300	ug/Kg	✱	10/19/22 08:03	10/19/22 15:22	50
Aroclor-1242	11000		3100	1200	ug/Kg	✱	10/19/22 08:03	10/19/22 15:22	50
Aroclor-1248	<3100		3100	1000	ug/Kg	✱	10/19/22 08:03	10/19/22 15:22	50
Aroclor-1254	23000		3100	1300	ug/Kg	✱	10/19/22 08:03	10/19/22 15:22	50
Aroclor-1260	<3100		3100	1300	ug/Kg	✱	10/19/22 08:03	10/19/22 15:22	50
Aroclor-1262	<3100		3100	1300	ug/Kg	✱	10/19/22 08:03	10/19/22 15:22	50
Aroclor-1268	<3100		3100	980	ug/Kg	✱	10/19/22 08:03	10/19/22 15:22	50
Polychlorinated biphenyls, Total	34000		3100	1800	ug/Kg	✱	10/19/22 08:03	10/19/22 15:22	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	44	p	10 - 149	10/19/22 08:03	10/19/22 15:22	50
DCB Decachlorobiphenyl	0	S1-	10 - 174	10/19/22 08:03	10/19/22 15:22	50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	85.9		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	14.1		0.1	0.1	%			10/19/22 11:10	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-E4-628-627-221014

Lab Sample ID: 240-174870-3

Date Collected: 10/14/22 10:25

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 79.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<3200		3200	1600	ug/Kg	✱	10/19/22 08:03	10/19/22 15:40	50
Aroclor-1221	<3200		3200	1900	ug/Kg	✱	10/19/22 08:03	10/19/22 15:40	50
Aroclor-1232	<3200		3200	1300	ug/Kg	✱	10/19/22 08:03	10/19/22 15:40	50
Aroclor-1242	8600		3200	1200	ug/Kg	✱	10/19/22 08:03	10/19/22 15:40	50
Aroclor-1248	<3200		3200	1100	ug/Kg	✱	10/19/22 08:03	10/19/22 15:40	50
Aroclor-1254	21000		3200	1300	ug/Kg	✱	10/19/22 08:03	10/19/22 15:40	50
Aroclor-1260	<3200		3200	1300	ug/Kg	✱	10/19/22 08:03	10/19/22 15:40	50
Aroclor-1262	<3200		3200	1400	ug/Kg	✱	10/19/22 08:03	10/19/22 15:40	50
Aroclor-1268	<3200		3200	1000	ug/Kg	✱	10/19/22 08:03	10/19/22 15:40	50
Polychlorinated biphenyls, Total	30000		3200	1900	ug/Kg	✱	10/19/22 08:03	10/19/22 15:40	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	11	p	10 - 149	10/19/22 08:03	10/19/22 15:40	50
DCB Decachlorobiphenyl	0	S1-	10 - 174	10/19/22 08:03	10/19/22 15:40	50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	79.2		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	20.8		0.1	0.1	%			10/19/22 11:10	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-E4-629-628-221014

Lab Sample ID: 240-174870-4

Date Collected: 10/14/22 10:25

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 84.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200		1200	590	ug/Kg	✱	10/19/22 08:03	10/19/22 15:57	20
Aroclor-1221	<1200		1200	700	ug/Kg	✱	10/19/22 08:03	10/19/22 15:57	20
Aroclor-1232	<1200		1200	490	ug/Kg	✱	10/19/22 08:03	10/19/22 15:57	20
Aroclor-1242	8400		1200	450	ug/Kg	✱	10/19/22 08:03	10/19/22 15:57	20
Aroclor-1248	<1200		1200	400	ug/Kg	✱	10/19/22 08:03	10/19/22 15:57	20
Aroclor-1254	22000		1200	490	ug/Kg	✱	10/19/22 08:03	10/19/22 15:57	20
Aroclor-1260	<1200		1200	490	ug/Kg	✱	10/19/22 08:03	10/19/22 15:57	20
Aroclor-1262	<1200		1200	520	ug/Kg	✱	10/19/22 08:03	10/19/22 15:57	20
Aroclor-1268	<1200		1200	380	ug/Kg	✱	10/19/22 08:03	10/19/22 15:57	20
Polychlorinated biphenyls, Total	30000		1200	700	ug/Kg	✱	10/19/22 08:03	10/19/22 15:57	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		10 - 149	10/19/22 08:03	10/19/22 15:57	20
DCB Decachlorobiphenyl	84		10 - 174	10/19/22 08:03	10/19/22 15:57	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	84.2		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	15.8		0.1	0.1	%			10/19/22 11:10	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-B4-629-628-221017

Lab Sample ID: 240-174870-5

Date Collected: 10/17/22 11:24

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 88.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1100		1100	560	ug/Kg	✱	10/19/22 08:03	10/19/22 16:15	20
Aroclor-1221	<1100		1100	670	ug/Kg	✱	10/19/22 08:03	10/19/22 16:15	20
Aroclor-1232	<1100		1100	470	ug/Kg	✱	10/19/22 08:03	10/19/22 16:15	20
Aroclor-1242	9700		1100	430	ug/Kg	✱	10/19/22 08:03	10/19/22 16:15	20
Aroclor-1248	<1100		1100	380	ug/Kg	✱	10/19/22 08:03	10/19/22 16:15	20
Aroclor-1254	20000		1100	470	ug/Kg	✱	10/19/22 08:03	10/19/22 16:15	20
Aroclor-1260	<1100		1100	470	ug/Kg	✱	10/19/22 08:03	10/19/22 16:15	20
Aroclor-1262	<1100		1100	490	ug/Kg	✱	10/19/22 08:03	10/19/22 16:15	20
Aroclor-1268	<1100		1100	360	ug/Kg	✱	10/19/22 08:03	10/19/22 16:15	20
Polychlorinated biphenyls, Total	30000		1100	670	ug/Kg	✱	10/19/22 08:03	10/19/22 16:15	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		10 - 149	10/19/22 08:03	10/19/22 16:15	20
DCB Decachlorobiphenyl	94		10 - 174	10/19/22 08:03	10/19/22 16:15	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	88.4		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	11.6		0.1	0.1	%			10/19/22 11:10	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-B4-628-627-221017

Lab Sample ID: 240-174870-6

Date Collected: 10/17/22 11:24

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 82.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200		1200	580	ug/Kg	✱	10/19/22 08:03	10/19/22 16:32	20
Aroclor-1221	<1200		1200	700	ug/Kg	✱	10/19/22 08:03	10/19/22 16:32	20
Aroclor-1232	<1200		1200	490	ug/Kg	✱	10/19/22 08:03	10/19/22 16:32	20
Aroclor-1242	4800		1200	440	ug/Kg	✱	10/19/22 08:03	10/19/22 16:32	20
Aroclor-1248	<1200		1200	390	ug/Kg	✱	10/19/22 08:03	10/19/22 16:32	20
Aroclor-1254	18000		1200	490	ug/Kg	✱	10/19/22 08:03	10/19/22 16:32	20
Aroclor-1260	<1200		1200	490	ug/Kg	✱	10/19/22 08:03	10/19/22 16:32	20
Aroclor-1262	<1200		1200	510	ug/Kg	✱	10/19/22 08:03	10/19/22 16:32	20
Aroclor-1268	<1200		1200	370	ug/Kg	✱	10/19/22 08:03	10/19/22 16:32	20
Polychlorinated biphenyls, Total	23000		1200	700	ug/Kg	✱	10/19/22 08:03	10/19/22 16:32	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		10 - 149	10/19/22 08:03	10/19/22 16:32	20
DCB Decachlorobiphenyl	136		10 - 174	10/19/22 08:03	10/19/22 16:32	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	82.3		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	17.7		0.1	0.1	%			10/19/22 11:10	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-C3-629-628-221017

Lab Sample ID: 240-174870-7

Date Collected: 10/17/22 11:14

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 80.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200		1200	600	ug/Kg	✱	10/19/22 08:03	10/19/22 16:49	20
Aroclor-1221	<1200		1200	720	ug/Kg	✱	10/19/22 08:03	10/19/22 16:49	20
Aroclor-1232	<1200		1200	500	ug/Kg	✱	10/19/22 08:03	10/19/22 16:49	20
Aroclor-1242	8700		1200	460	ug/Kg	✱	10/19/22 08:03	10/19/22 16:49	20
Aroclor-1248	<1200		1200	410	ug/Kg	✱	10/19/22 08:03	10/19/22 16:49	20
Aroclor-1254	18000		1200	500	ug/Kg	✱	10/19/22 08:03	10/19/22 16:49	20
Aroclor-1260	<1200		1200	500	ug/Kg	✱	10/19/22 08:03	10/19/22 16:49	20
Aroclor-1262	<1200		1200	530	ug/Kg	✱	10/19/22 08:03	10/19/22 16:49	20
Aroclor-1268	<1200		1200	380	ug/Kg	✱	10/19/22 08:03	10/19/22 16:49	20
Polychlorinated biphenyls, Total	27000		1200	720	ug/Kg	✱	10/19/22 08:03	10/19/22 16:49	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	58		10 - 149	10/19/22 08:03	10/19/22 16:49	20
DCB Decachlorobiphenyl	174		10 - 174	10/19/22 08:03	10/19/22 16:49	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	80.0		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	20.0		0.1	0.1	%			10/19/22 11:10	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-C3-628-627-221017

Lab Sample ID: 240-174870-8

Date Collected: 10/17/22 11:14

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 87.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200		1200	580	ug/Kg	✱	10/19/22 08:03	10/19/22 17:07	20
Aroclor-1221	<1200		1200	690	ug/Kg	✱	10/19/22 08:03	10/19/22 17:07	20
Aroclor-1232	<1200		1200	480	ug/Kg	✱	10/19/22 08:03	10/19/22 17:07	20
Aroclor-1242	10000		1200	440	ug/Kg	✱	10/19/22 08:03	10/19/22 17:07	20
Aroclor-1248	<1200		1200	390	ug/Kg	✱	10/19/22 08:03	10/19/22 17:07	20
Aroclor-1254	20000		1200	480	ug/Kg	✱	10/19/22 08:03	10/19/22 17:07	20
Aroclor-1260	<1200		1200	480	ug/Kg	✱	10/19/22 08:03	10/19/22 17:07	20
Aroclor-1262	<1200		1200	510	ug/Kg	✱	10/19/22 08:03	10/19/22 17:07	20
Aroclor-1268	<1200		1200	370	ug/Kg	✱	10/19/22 08:03	10/19/22 17:07	20
Polychlorinated biphenyls, Total	30000		1200	690	ug/Kg	✱	10/19/22 08:03	10/19/22 17:07	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		10 - 149	10/19/22 08:03	10/19/22 17:07	20
DCB Decachlorobiphenyl	156		10 - 174	10/19/22 08:03	10/19/22 17:07	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	87.4		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	12.6		0.1	0.1	%			10/19/22 11:10	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-C4-629-628-221017

Lab Sample ID: 240-174870-9

Date Collected: 10/17/22 11:04

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 81.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200		1200	610	ug/Kg	✱	10/19/22 08:03	10/19/22 17:24	20
Aroclor-1221	<1200		1200	740	ug/Kg	✱	10/19/22 08:03	10/19/22 17:24	20
Aroclor-1232	<1200		1200	520	ug/Kg	✱	10/19/22 08:03	10/19/22 17:24	20
Aroclor-1242	7100		1200	470	ug/Kg	✱	10/19/22 08:03	10/19/22 17:24	20
Aroclor-1248	<1200		1200	420	ug/Kg	✱	10/19/22 08:03	10/19/22 17:24	20
Aroclor-1254	25000		1200	520	ug/Kg	✱	10/19/22 08:03	10/19/22 17:24	20
Aroclor-1260	<1200		1200	520	ug/Kg	✱	10/19/22 08:03	10/19/22 17:24	20
Aroclor-1262	<1200		1200	540	ug/Kg	✱	10/19/22 08:03	10/19/22 17:24	20
Aroclor-1268	<1200		1200	390	ug/Kg	✱	10/19/22 08:03	10/19/22 17:24	20
Polychlorinated biphenyls, Total	32000		1200	740	ug/Kg	✱	10/19/22 08:03	10/19/22 17:24	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		10 - 149	10/19/22 08:03	10/19/22 17:24	20
DCB Decachlorobiphenyl	138		10 - 174	10/19/22 08:03	10/19/22 17:24	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	81.0		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	19.0		0.1	0.1	%			10/19/22 11:10	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-C4-628-627-221017

Lab Sample ID: 240-174870-10

Date Collected: 10/17/22 11:04

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 75.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<130000		130000	66000	ug/Kg	✱	10/19/22 08:03	10/20/22 11:36	2000
Aroclor-1221	<130000		130000	79000	ug/Kg	✱	10/19/22 08:03	10/20/22 11:36	2000
Aroclor-1232	<130000		130000	55000	ug/Kg	✱	10/19/22 08:03	10/20/22 11:36	2000
Aroclor-1242	2900000		130000	50000	ug/Kg	✱	10/19/22 08:03	10/20/22 11:36	2000
Aroclor-1248	<130000		130000	45000	ug/Kg	✱	10/19/22 08:03	10/20/22 11:36	2000
Aroclor-1254	<130000		130000	55000	ug/Kg	✱	10/19/22 08:03	10/20/22 11:36	2000
Aroclor-1260	<130000		130000	55000	ug/Kg	✱	10/19/22 08:03	10/20/22 11:36	2000
Aroclor-1262	<130000		130000	58000	ug/Kg	✱	10/19/22 08:03	10/20/22 11:36	2000
Aroclor-1268	<130000		130000	42000	ug/Kg	✱	10/19/22 08:03	10/20/22 11:36	2000
Polychlorinated biphenyls, Total	2900000		130000	79000	ug/Kg	✱	10/19/22 08:03	10/20/22 11:36	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	S1-	10 - 149	10/19/22 08:03	10/20/22 11:36	2000
DCB Decachlorobiphenyl	0	S1-	10 - 174	10/19/22 08:03	10/20/22 11:36	2000

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	75.8		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	24.2		0.1	0.1	%			10/19/22 11:10	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-D3-629-628-221017

Lab Sample ID: 240-174870-11

Date Collected: 10/17/22 10:41

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 87.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200		1200	580	ug/Kg	✱	10/19/22 08:03	10/19/22 17:59	20
Aroclor-1221	<1200		1200	700	ug/Kg	✱	10/19/22 08:03	10/19/22 17:59	20
Aroclor-1232	<1200		1200	490	ug/Kg	✱	10/19/22 08:03	10/19/22 17:59	20
Aroclor-1242	11000		1200	440	ug/Kg	✱	10/19/22 08:03	10/19/22 17:59	20
Aroclor-1248	<1200		1200	400	ug/Kg	✱	10/19/22 08:03	10/19/22 17:59	20
Aroclor-1254	23000		1200	490	ug/Kg	✱	10/19/22 08:03	10/19/22 17:59	20
Aroclor-1260	<1200		1200	490	ug/Kg	✱	10/19/22 08:03	10/19/22 17:59	20
Aroclor-1262	<1200		1200	510	ug/Kg	✱	10/19/22 08:03	10/19/22 17:59	20
Aroclor-1268	<1200		1200	370	ug/Kg	✱	10/19/22 08:03	10/19/22 17:59	20
Polychlorinated biphenyls, Total	34000		1200	700	ug/Kg	✱	10/19/22 08:03	10/19/22 17:59	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	56	p	10 - 149	10/19/22 08:03	10/19/22 17:59	20
DCB Decachlorobiphenyl	154		10 - 174	10/19/22 08:03	10/19/22 17:59	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	87.1		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	12.9		0.1	0.1	%			10/19/22 11:10	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-D3-628-627-221017

Lab Sample ID: 240-174870-12

Date Collected: 10/17/22 10:41

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 82.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<620		620	310	ug/Kg	✱	10/19/22 08:03	10/19/22 18:16	10
Aroclor-1221	<620		620	370	ug/Kg	✱	10/19/22 08:03	10/19/22 18:16	10
Aroclor-1232	<620		620	260	ug/Kg	✱	10/19/22 08:03	10/19/22 18:16	10
Aroclor-1242	10000		620	230	ug/Kg	✱	10/19/22 08:03	10/19/22 18:16	10
Aroclor-1248	<620		620	210	ug/Kg	✱	10/19/22 08:03	10/19/22 18:16	10
Aroclor-1254	14000		620	260	ug/Kg	✱	10/19/22 08:03	10/19/22 18:16	10
Aroclor-1260	<620		620	260	ug/Kg	✱	10/19/22 08:03	10/19/22 18:16	10
Aroclor-1262	<620		620	270	ug/Kg	✱	10/19/22 08:03	10/19/22 18:16	10
Aroclor-1268	<620		620	200	ug/Kg	✱	10/19/22 08:03	10/19/22 18:16	10
Polychlorinated biphenyls, Total	24000		620	370	ug/Kg	✱	10/19/22 08:03	10/19/22 18:16	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		10 - 149	10/19/22 08:03	10/19/22 18:16	10
DCB Decachlorobiphenyl	67		10 - 174	10/19/22 08:03	10/19/22 18:16	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	82.0		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	18.0		0.1	0.1	%			10/19/22 11:10	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-D4-629-628-221017

Lab Sample ID: 240-174870-13

Date Collected: 10/17/22 10:27

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 82.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1300		1300	630	ug/Kg	✱	10/19/22 08:03	10/19/22 18:34	20
Aroclor-1221	<1300		1300	750	ug/Kg	✱	10/19/22 08:03	10/19/22 18:34	20
Aroclor-1232	<1300		1300	530	ug/Kg	✱	10/19/22 08:03	10/19/22 18:34	20
Aroclor-1242	5200		1300	480	ug/Kg	✱	10/19/22 08:03	10/19/22 18:34	20
Aroclor-1248	<1300		1300	430	ug/Kg	✱	10/19/22 08:03	10/19/22 18:34	20
Aroclor-1254	18000		1300	530	ug/Kg	✱	10/19/22 08:03	10/19/22 18:34	20
Aroclor-1260	<1300		1300	530	ug/Kg	✱	10/19/22 08:03	10/19/22 18:34	20
Aroclor-1262	<1300		1300	550	ug/Kg	✱	10/19/22 08:03	10/19/22 18:34	20
Aroclor-1268	<1300		1300	400	ug/Kg	✱	10/19/22 08:03	10/19/22 18:34	20
Polychlorinated biphenyls, Total	23000		1300	750	ug/Kg	✱	10/19/22 08:03	10/19/22 18:34	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		10 - 149	10/19/22 08:03	10/19/22 18:34	20
DCB Decachlorobiphenyl	286	S1+	10 - 174	10/19/22 08:03	10/19/22 18:34	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	82.9		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	17.1		0.1	0.1	%			10/19/22 11:10	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-D4-628-627-221017

Lab Sample ID: 240-174870-14

Date Collected: 10/17/22 10:27

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 85.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200		1200	610	ug/Kg	✱	10/19/22 08:03	10/19/22 18:51	20
Aroclor-1221	<1200		1200	730	ug/Kg	✱	10/19/22 08:03	10/19/22 18:51	20
Aroclor-1232	<1200		1200	510	ug/Kg	✱	10/19/22 08:03	10/19/22 18:51	20
Aroclor-1242	8100		1200	460	ug/Kg	✱	10/19/22 08:03	10/19/22 18:51	20
Aroclor-1248	<1200		1200	410	ug/Kg	✱	10/19/22 08:03	10/19/22 18:51	20
Aroclor-1254	18000		1200	510	ug/Kg	✱	10/19/22 08:03	10/19/22 18:51	20
Aroclor-1260	<1200		1200	510	ug/Kg	✱	10/19/22 08:03	10/19/22 18:51	20
Aroclor-1262	<1200		1200	530	ug/Kg	✱	10/19/22 08:03	10/19/22 18:51	20
Aroclor-1268	<1200		1200	390	ug/Kg	✱	10/19/22 08:03	10/19/22 18:51	20
Polychlorinated biphenyls, Total	26000		1200	730	ug/Kg	✱	10/19/22 08:03	10/19/22 18:51	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	46	p	10 - 149	10/19/22 08:03	10/19/22 18:51	20
DCB Decachlorobiphenyl	390	S1+	10 - 174	10/19/22 08:03	10/19/22 18:51	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	85.5		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	14.5		0.1	0.1	%			10/19/22 11:10	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-E3-629-628-221017

Lab Sample ID: 240-174870-15

Date Collected: 10/17/22 10:54

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 84.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200		1200	620	ug/Kg	✱	10/19/22 08:03	10/19/22 19:08	20
Aroclor-1221	<1200		1200	740	ug/Kg	✱	10/19/22 08:03	10/19/22 19:08	20
Aroclor-1232	<1200		1200	520	ug/Kg	✱	10/19/22 08:03	10/19/22 19:08	20
Aroclor-1242	11000		1200	470	ug/Kg	✱	10/19/22 08:03	10/19/22 19:08	20
Aroclor-1248	<1200		1200	420	ug/Kg	✱	10/19/22 08:03	10/19/22 19:08	20
Aroclor-1254	24000		1200	520	ug/Kg	✱	10/19/22 08:03	10/19/22 19:08	20
Aroclor-1260	<1200		1200	520	ug/Kg	✱	10/19/22 08:03	10/19/22 19:08	20
Aroclor-1262	<1200		1200	540	ug/Kg	✱	10/19/22 08:03	10/19/22 19:08	20
Aroclor-1268	<1200		1200	400	ug/Kg	✱	10/19/22 08:03	10/19/22 19:08	20
Polychlorinated biphenyls, Total	35000		1200	740	ug/Kg	✱	10/19/22 08:03	10/19/22 19:08	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		10 - 149	10/19/22 08:03	10/19/22 19:08	20
DCB Decachlorobiphenyl	98		10 - 174	10/19/22 08:03	10/19/22 19:08	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	84.5		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	15.5		0.1	0.1	%			10/19/22 11:10	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-E3-628-627-221017

Lab Sample ID: 240-174870-16

Date Collected: 10/17/22 10:54

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 82.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<3100		3100	1500	ug/Kg	✱	10/19/22 08:03	10/19/22 19:43	50
Aroclor-1221	<3100		3100	1900	ug/Kg	✱	10/19/22 08:03	10/19/22 19:43	50
Aroclor-1232	<3100		3100	1300	ug/Kg	✱	10/19/22 08:03	10/19/22 19:43	50
Aroclor-1242	13000		3100	1200	ug/Kg	✱	10/19/22 08:03	10/19/22 19:43	50
Aroclor-1248	<3100		3100	1000	ug/Kg	✱	10/19/22 08:03	10/19/22 19:43	50
Aroclor-1254	27000		3100	1300	ug/Kg	✱	10/19/22 08:03	10/19/22 19:43	50
Aroclor-1260	<3100		3100	1300	ug/Kg	✱	10/19/22 08:03	10/19/22 19:43	50
Aroclor-1262	<3100		3100	1400	ug/Kg	✱	10/19/22 08:03	10/19/22 19:43	50
Aroclor-1268	<3100		3100	990	ug/Kg	✱	10/19/22 08:03	10/19/22 19:43	50
Polychlorinated biphenyls, Total	40000		3100	1900	ug/Kg	✱	10/19/22 08:03	10/19/22 19:43	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	33	p	10 - 149	10/19/22 08:03	10/19/22 19:43	50
DCB Decachlorobiphenyl	0	S1-	10 - 174	10/19/22 08:03	10/19/22 19:43	50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	82.0		0.1	0.1	%			10/19/22 11:10	1
Percent Moisture (EPA Moisture)	18.0		0.1	0.1	%			10/19/22 11:10	1

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCBP1
		(10-149)	(10-174)
240-174870-1	CM-CS-F4-629-628-221014	27 p	0 S1-
240-174870-2	CM-CS-F4-628-627-221014	44 p	0 S1-
240-174870-3	CM-CS-E4-628-627-221014	11 p	0 S1-
240-174870-4	CM-CS-E4-629-628-221014	70	84
240-174870-5	CM-CS-B4-629-628-221017	77	94
240-174870-6	CM-CS-B4-628-627-221017	67	136
240-174870-7	CM-CS-C3-629-628-221017	58	174
240-174870-8	CM-CS-C3-628-627-221017	81	156
240-174870-9	CM-CS-C4-629-628-221017	84	138
240-174870-10	CM-CS-C4-628-627-221017	0 S1-	0 S1-
240-174870-11	CM-CS-D3-629-628-221017	56 p	154
240-174870-12	CM-CS-D3-628-627-221017	71	67
240-174870-13	CM-CS-D4-629-628-221017	76	286 S1+
240-174870-14	CM-CS-D4-628-627-221017	46 p	390 S1+
240-174870-15	CM-CS-E3-629-628-221017	72	98
240-174870-16	CM-CS-E3-628-627-221017	33 p	0 S1-
LCS 240-547690/2-A	Lab Control Sample	77	66
MB 240-547690/1-A	Method Blank	114	97

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-547690/1-A

Matrix: Solid

Analysis Batch: 547663

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 547690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<50		50	25	ug/Kg		10/19/22 08:03	10/19/22 14:30	1
Aroclor-1221	<50		50	30	ug/Kg		10/19/22 08:03	10/19/22 14:30	1
Aroclor-1232	<50		50	21	ug/Kg		10/19/22 08:03	10/19/22 14:30	1
Aroclor-1242	<50		50	19	ug/Kg		10/19/22 08:03	10/19/22 14:30	1
Aroclor-1248	<50		50	17	ug/Kg		10/19/22 08:03	10/19/22 14:30	1
Aroclor-1254	<50		50	21	ug/Kg		10/19/22 08:03	10/19/22 14:30	1
Aroclor-1260	<50		50	21	ug/Kg		10/19/22 08:03	10/19/22 14:30	1
Aroclor-1262	<50		50	22	ug/Kg		10/19/22 08:03	10/19/22 14:30	1
Aroclor-1268	<50		50	16	ug/Kg		10/19/22 08:03	10/19/22 14:30	1
Polychlorinated biphenyls, Total	<50		50	30	ug/Kg		10/19/22 08:03	10/19/22 14:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	114		10 - 149	10/19/22 08:03	10/19/22 14:30	1
DCB Decachlorobiphenyl	97		10 - 174	10/19/22 08:03	10/19/22 14:30	1

Lab Sample ID: LCS 240-547690/2-A

Matrix: Solid

Analysis Batch: 547663

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 547690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	1000	630		ug/Kg		63	28 - 140
Aroclor-1260	1000	628		ug/Kg		63	39 - 153
Polychlorinated biphenyls, Total	2000	1260		ug/Kg		63	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	77		10 - 149
DCB Decachlorobiphenyl	66		10 - 174

Method: Moisture - Percent Moisture

Lab Sample ID: 240-174870-9 DU

Matrix: Solid

Analysis Batch: 547764

Client Sample ID: CM-CS-C4-629-628-221017

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	81.0		84.3		%		4	20
Percent Moisture	19.0		15.7		%		19	20

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

GC Semi VOA

Analysis Batch: 547663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174870-1	CM-CS-F4-629-628-221014	Total/NA	Solid	8082A	547690
240-174870-2	CM-CS-F4-628-627-221014	Total/NA	Solid	8082A	547690
240-174870-3	CM-CS-E4-628-627-221014	Total/NA	Solid	8082A	547690
240-174870-4	CM-CS-E4-629-628-221014	Total/NA	Solid	8082A	547690
240-174870-5	CM-CS-B4-629-628-221017	Total/NA	Solid	8082A	547690
240-174870-6	CM-CS-B4-628-627-221017	Total/NA	Solid	8082A	547690
240-174870-7	CM-CS-C3-629-628-221017	Total/NA	Solid	8082A	547690
240-174870-8	CM-CS-C3-628-627-221017	Total/NA	Solid	8082A	547690
240-174870-9	CM-CS-C4-629-628-221017	Total/NA	Solid	8082A	547690
240-174870-11	CM-CS-D3-629-628-221017	Total/NA	Solid	8082A	547690
240-174870-12	CM-CS-D3-628-627-221017	Total/NA	Solid	8082A	547690
240-174870-13	CM-CS-D4-629-628-221017	Total/NA	Solid	8082A	547690
240-174870-14	CM-CS-D4-628-627-221017	Total/NA	Solid	8082A	547690
240-174870-15	CM-CS-E3-629-628-221017	Total/NA	Solid	8082A	547690
240-174870-16	CM-CS-E3-628-627-221017	Total/NA	Solid	8082A	547690
MB 240-547690/1-A	Method Blank	Total/NA	Solid	8082A	547690
LCS 240-547690/2-A	Lab Control Sample	Total/NA	Solid	8082A	547690

Prep Batch: 547690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174870-1	CM-CS-F4-629-628-221014	Total/NA	Solid	3546	
240-174870-2	CM-CS-F4-628-627-221014	Total/NA	Solid	3546	
240-174870-3	CM-CS-E4-628-627-221014	Total/NA	Solid	3546	
240-174870-4	CM-CS-E4-629-628-221014	Total/NA	Solid	3546	
240-174870-5	CM-CS-B4-629-628-221017	Total/NA	Solid	3546	
240-174870-6	CM-CS-B4-628-627-221017	Total/NA	Solid	3546	
240-174870-7	CM-CS-C3-629-628-221017	Total/NA	Solid	3546	
240-174870-8	CM-CS-C3-628-627-221017	Total/NA	Solid	3546	
240-174870-9	CM-CS-C4-629-628-221017	Total/NA	Solid	3546	
240-174870-10	CM-CS-C4-628-627-221017	Total/NA	Solid	3546	
240-174870-11	CM-CS-D3-629-628-221017	Total/NA	Solid	3546	
240-174870-12	CM-CS-D3-628-627-221017	Total/NA	Solid	3546	
240-174870-13	CM-CS-D4-629-628-221017	Total/NA	Solid	3546	
240-174870-14	CM-CS-D4-628-627-221017	Total/NA	Solid	3546	
240-174870-15	CM-CS-E3-629-628-221017	Total/NA	Solid	3546	
240-174870-16	CM-CS-E3-628-627-221017	Total/NA	Solid	3546	
MB 240-547690/1-A	Method Blank	Total/NA	Solid	3546	
LCS 240-547690/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 547852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174870-10	CM-CS-C4-628-627-221017	Total/NA	Solid	8082A	547690

General Chemistry

Analysis Batch: 547764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174870-1	CM-CS-F4-629-628-221014	Total/NA	Solid	Moisture	
240-174870-2	CM-CS-F4-628-627-221014	Total/NA	Solid	Moisture	
240-174870-3	CM-CS-E4-628-627-221014	Total/NA	Solid	Moisture	
240-174870-4	CM-CS-E4-629-628-221014	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

General Chemistry (Continued)

Analysis Batch: 547764 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174870-5	CM-CS-B4-629-628-221017	Total/NA	Solid	Moisture	
240-174870-6	CM-CS-B4-628-627-221017	Total/NA	Solid	Moisture	
240-174870-7	CM-CS-C3-629-628-221017	Total/NA	Solid	Moisture	
240-174870-8	CM-CS-C3-628-627-221017	Total/NA	Solid	Moisture	
240-174870-9	CM-CS-C4-629-628-221017	Total/NA	Solid	Moisture	
240-174870-10	CM-CS-C4-628-627-221017	Total/NA	Solid	Moisture	
240-174870-11	CM-CS-D3-629-628-221017	Total/NA	Solid	Moisture	
240-174870-12	CM-CS-D3-628-627-221017	Total/NA	Solid	Moisture	
240-174870-13	CM-CS-D4-629-628-221017	Total/NA	Solid	Moisture	
240-174870-14	CM-CS-D4-628-627-221017	Total/NA	Solid	Moisture	
240-174870-15	CM-CS-E3-629-628-221017	Total/NA	Solid	Moisture	
240-174870-16	CM-CS-E3-628-627-221017	Total/NA	Solid	Moisture	
240-174870-9 DU	CM-CS-C4-629-628-221017	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-F4-629-628-221014

Lab Sample ID: 240-174870-1

Date Collected: 10/14/22 10:15

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

Client Sample ID: CM-CS-F4-629-628-221014

Lab Sample ID: 240-174870-1

Date Collected: 10/14/22 10:15

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		50	547663	MBB	EET CAN	10/19/22 15:05

Client Sample ID: CM-CS-F4-628-627-221014

Lab Sample ID: 240-174870-2

Date Collected: 10/14/22 10:15

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

Client Sample ID: CM-CS-F4-628-627-221014

Lab Sample ID: 240-174870-2

Date Collected: 10/14/22 10:15

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		50	547663	MBB	EET CAN	10/19/22 15:22

Client Sample ID: CM-CS-E4-628-627-221014

Lab Sample ID: 240-174870-3

Date Collected: 10/14/22 10:25

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

Client Sample ID: CM-CS-E4-628-627-221014

Lab Sample ID: 240-174870-3

Date Collected: 10/14/22 10:25

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		50	547663	MBB	EET CAN	10/19/22 15:40

Client Sample ID: CM-CS-E4-629-628-221014

Lab Sample ID: 240-174870-4

Date Collected: 10/14/22 10:25

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

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Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-E4-629-628-221014

Lab Sample ID: 240-174870-4

Date Collected: 10/14/22 10:25

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		20	547663	MBB	EET CAN	10/19/22 15:57

Client Sample ID: CM-CS-B4-629-628-221017

Lab Sample ID: 240-174870-5

Date Collected: 10/17/22 11:24

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

Client Sample ID: CM-CS-B4-629-628-221017

Lab Sample ID: 240-174870-5

Date Collected: 10/17/22 11:24

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		20	547663	MBB	EET CAN	10/19/22 16:15

Client Sample ID: CM-CS-B4-628-627-221017

Lab Sample ID: 240-174870-6

Date Collected: 10/17/22 11:24

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

Client Sample ID: CM-CS-B4-628-627-221017

Lab Sample ID: 240-174870-6

Date Collected: 10/17/22 11:24

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		20	547663	MBB	EET CAN	10/19/22 16:32

Client Sample ID: CM-CS-C3-629-628-221017

Lab Sample ID: 240-174870-7

Date Collected: 10/17/22 11:14

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-C3-629-628-221017

Lab Sample ID: 240-174870-7

Date Collected: 10/17/22 11:14

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		20	547663	MBB	EET CAN	10/19/22 16:49

Client Sample ID: CM-CS-C3-628-627-221017

Lab Sample ID: 240-174870-8

Date Collected: 10/17/22 11:14

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

Client Sample ID: CM-CS-C3-628-627-221017

Lab Sample ID: 240-174870-8

Date Collected: 10/17/22 11:14

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		20	547663	MBB	EET CAN	10/19/22 17:07

Client Sample ID: CM-CS-C4-629-628-221017

Lab Sample ID: 240-174870-9

Date Collected: 10/17/22 11:04

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

Client Sample ID: CM-CS-C4-629-628-221017

Lab Sample ID: 240-174870-9

Date Collected: 10/17/22 11:04

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		20	547663	MBB	EET CAN	10/19/22 17:24

Client Sample ID: CM-CS-C4-628-627-221017

Lab Sample ID: 240-174870-10

Date Collected: 10/17/22 11:04

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-C4-628-627-221017

Lab Sample ID: 240-174870-10

Date Collected: 10/17/22 11:04

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 75.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		2000	547852	LSH	EET CAN	10/20/22 11:36

Client Sample ID: CM-CS-D3-629-628-221017

Lab Sample ID: 240-174870-11

Date Collected: 10/17/22 10:41

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

Client Sample ID: CM-CS-D3-629-628-221017

Lab Sample ID: 240-174870-11

Date Collected: 10/17/22 10:41

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		20	547663	MBB	EET CAN	10/19/22 17:59

Client Sample ID: CM-CS-D3-628-627-221017

Lab Sample ID: 240-174870-12

Date Collected: 10/17/22 10:41

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

Client Sample ID: CM-CS-D3-628-627-221017

Lab Sample ID: 240-174870-12

Date Collected: 10/17/22 10:41

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		10	547663	MBB	EET CAN	10/19/22 18:16

Client Sample ID: CM-CS-D4-629-628-221017

Lab Sample ID: 240-174870-13

Date Collected: 10/17/22 10:27

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-D4-629-628-221017

Lab Sample ID: 240-174870-13

Date Collected: 10/17/22 10:27

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		20	547663	MBB	EET CAN	10/19/22 18:34

Client Sample ID: CM-CS-D4-628-627-221017

Lab Sample ID: 240-174870-14

Date Collected: 10/17/22 10:27

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

Client Sample ID: CM-CS-D4-628-627-221017

Lab Sample ID: 240-174870-14

Date Collected: 10/17/22 10:27

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		20	547663	MBB	EET CAN	10/19/22 18:51

Client Sample ID: CM-CS-E3-629-628-221017

Lab Sample ID: 240-174870-15

Date Collected: 10/17/22 10:54

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

Client Sample ID: CM-CS-E3-629-628-221017

Lab Sample ID: 240-174870-15

Date Collected: 10/17/22 10:54

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		20	547663	MBB	EET CAN	10/19/22 19:08

Client Sample ID: CM-CS-E3-628-627-221017

Lab Sample ID: 240-174870-16

Date Collected: 10/17/22 10:54

Matrix: Solid

Date Received: 10/18/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547764	MMS	EET CAN	10/19/22 11:10

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Client Sample ID: CM-CS-E3-628-627-221017

Lab Sample ID: 240-174870-16

Date Collected: 10/17/22 10:54

Matrix: Solid

Date Received: 10/18/22 15:00

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			547690	AJ	EET CAN	10/19/22 08:03
Total/NA	Analysis	8082A		50	547663	MBB	EET CAN	10/19/22 19:43

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-174870-1

Laboratory: Eurofins Canton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200004	07-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3546	Solid	Aroclor-1262
8082A	3546	Solid	Aroclor-1268
8082A	3546	Solid	Polychlorinated biphenyls, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Minnesota	NELAP	039-999-348	12-31-22
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3546	Solid	Polychlorinated biphenyls, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Eurofins Canton

180 S. Van Buren Avenue
Barberton, OH 44203

Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

Environment Testing
America

Client Information Client Contact: Rachel Houle Company: Tetra Tech EM Inc. Address: 1 South Wacker Drive 37 Floor Ste. 3700 City: Chicago State: IL Zip: 60606 Phone: 312-201-7721 (Tel) Email: rachel.houle@tetratech.com Project Name: Chudnow Metals Site:		Sampler: Alexia Scholl Lab PM: Knapp, Jim D Phone: E-Mail: Jim.Knapp@et.eurofins.com PWSID:	Carrier Tracking No(s): State of Origin:	COC No: 240-99594-36245.1 Page: Page 1 of 6 Job #:
Analysis Requested Due Date Requested: TAT Requested (days): 3 Days Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: 1168715/ETA-76 WO #: 24029930 Project #: 24029930 SSOW#:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:		
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=oil, B=biological, A=air) Preservation Code:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Total Number of Containers	Special Instructions/Note:	
CM-CS-F4-629-628-221014 CM-CS-F4-628-627-221014 CM-CS-F4-628-627-221014 CM-CS-F4-629-628-221014 CM-CS-F4-629-628-221017 CM-CS-F4-628-627-221017 CM-CS-F4-629-628-221017 CM-CS-F4-628-627-221017 CM-CS-F4-629-628-221017 CM-CS-F4-628-627-221017 CM-CS-F4-629-628-221017		10/14/22 10/14/22 10/25 10/25 10/17/22 10/17/22 10/17/22 10/17/22 10/17/22 10/17/22 10/17/22	Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	X X X X X X X X X X
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months				
Special Instructions/QC Requirements:				
Empty Kit Relinquished by:				
Relinquished by: Alexia Scholl Date: 10/17/22 Time: 1500 Company:				
Relinquished by: Date: Time: Company:				
Relinquished by: Date: Time: Company:				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:				

Eurofins - Canton Sample Receipt Form/Narrative Login # : _____

Barberton Facility

Client TERRA Tech Site Name _____ Cooler unpacked by: Mandaly

Cooler Received on 10-18-22 Opened on 10-18-22

FedEx: 1st Grd ☒ UPS ☐ FAS ☐ Clipper ☐ Client Drop Off ☐ Eurofins Courier ☐ Other ☐

Receipt After-hours: Drop-off Date/Time _____ **Storage Location** _____

Eurofins Cooler # 2071 Foam Box ☐ Client Cooler ☐ Box ☐ Other ☐

Packing material used: Bubble Wrap Foam ☐ Plastic Bag ☐ None ☐ Other ☐

COOLANT: Wet Ice Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-13 (CF +0.7 °C) Observed Cooler Temp. 2.0 °C Corrected Cooler Temp. 2.8 °C

IR GUN #IR-15 (CF 0.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes ☒ No ☐

-Were the seals on the outside of the cooler(s) signed & dated? Yes ☒ No ☐ NA ☐

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes ☒ No ☐ NA ☐

-Were tamper/custody seals intact and uncompromised? Yes ☒ No ☐ NA ☐

3. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐

4. Did custody papers accompany the sample(s)? Yes ☒ No ☐

5. Were the custody papers relinquished & signed in the appropriate place? Yes ☒ No ☐

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes ☒ No ☐

7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐

8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes ☒ No ☐

9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes ☒ No ☐

10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐

11. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐

12. Are these work share samples and all listed on the COC? Yes ☒ No ☐

If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐ pH Strip Lot# HC286797

14. Were VOAs on the COC? Yes ☒ No ☐ NA ☐

15. Were air bubbles >6 mm in any VOA vials? ☒ Larger than this. Yes ☒ No ☐ NA ☐

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes ☒ No ☐

17. Was a LL Hg or Me Hg trip blank present? Yes ☒ No ☐

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

ANALYTICAL REPORT

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-175006-1
Client Project/Site: Chudnow Metals

For:

Tetra Tech EM Inc.
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Chicago, Illinois 60606

Attn: Rachel Houle



Authorized for release by:
10/24/2022 5:24:16 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
⍰	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Job ID: 240-175006-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-175006-1

Receipt

The samples were received on 10/20/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C

PCBs

Method 8082A: The following samples were diluted due to abundance of target analytes: CM-CS-A3-629-628-221018 (240-175006-4) and CM-CS-A4-629-628-221018 (240-175006-6). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8082A: The following samples appears to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: CM-CS-H1-630-629-221014 (240-175006-1) and CM-CS-A2-628-627-221018 (240-175006-3). The samples have been quantified and reported using the best overall Aroclor/standard pattern match.

Method 8082A: The following sample was diluted due to abundance of target analytes: CM-CS-B2-628-627-221018 (240-175006-9). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8082A: The following samples appears to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: CM-CS-A4-628-627-221018 (240-175006-7), CM-CS-B2-628-627-221018 (240-175006-9), CM-CS-B3-628-627-221018 (240-175006-11) and CM-CS-DUP01-221018 (240-175006-12). The samples have been quantified and reported using the best overall Aroclor/standard pattern match.

Method 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: CM-CS-DUP01-221018 (240-175006-12).594636555019705972476

Method 8082A: The following samples were diluted due to the abundance of target analytes: CM-CS-H1-630-629-221014 (240-175006-1), CM-CS-A2-629-628-221018 (240-175006-2), CM-CS-A2-628-627-221018 (240-175006-3), CM-CS-A3-628-627-221018 (240-175006-5) and CM-CS-B2-629-628-221018 (240-175006-8). As such, elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAN
6010D	Metals (ICP)	SW846	EET CAN
7471B	Mercury (CVAA)	SW846	EET CAN
Moisture	Percent Moisture	EPA	EET CAN
3050B	Preparation, Metals	SW846	EET CAN
3546	Microwave Extraction	SW846	EET CAN
7471B	Preparation, Mercury	SW846	EET CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-175006-1	CM-CS-H1-630-629-221014	Solid	10/14/22 10:35	10/20/22 10:00
240-175006-2	CM-CS-A2-629-628-221018	Solid	10/18/22 08:15	10/20/22 10:00
240-175006-3	CM-CS-A2-628-627-221018	Solid	10/18/22 08:15	10/20/22 10:00
240-175006-4	CM-CS-A3-629-628-221018	Solid	10/18/22 08:06	10/20/22 10:00
240-175006-5	CM-CS-A3-628-627-221018	Solid	10/18/22 08:06	10/20/22 10:00
240-175006-6	CM-CS-A4-629-628-221018	Solid	10/18/22 07:55	10/20/22 10:00
240-175006-7	CM-CS-A4-628-627-221018	Solid	10/18/22 07:55	10/20/22 10:00
240-175006-8	CM-CS-B2-629-628-221018	Solid	10/18/22 08:25	10/20/22 10:00
240-175006-9	CM-CS-B2-628-627-221018	Solid	10/18/22 08:25	10/20/22 10:00
240-175006-10	CM-CS-B3-629-628-221018	Solid	10/18/22 07:44	10/20/22 10:00
240-175006-11	CM-CS-B3-628-627-221018	Solid	10/18/22 07:44	10/20/22 10:00
240-175006-12	CM-CS-DUP01-221018	Solid	10/18/22 07:44	10/20/22 10:00

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-H1-630-629-221014

Lab Sample ID: 240-175006-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor-1242	630	J	770	290	ug/Kg	10	✱		8082A	Total/NA
Aroclor-1254	7500		770	320	ug/Kg	10	✱		8082A	Total/NA
Aluminum	5300		28	7.6	mg/Kg	1	✱		6010D	Total/NA
Silver	1.0	J	1.4	0.12	mg/Kg	1	✱		6010D	Total/NA
Barium	260	B	28	0.51	mg/Kg	1	✱		6010D	Total/NA
Beryllium	0.22	J	0.71	0.077	mg/Kg	1	✱		6010D	Total/NA
Calcium	93000		710	52	mg/Kg	1	✱		6010D	Total/NA
Cadmium	8.2		0.71	0.068	mg/Kg	1	✱		6010D	Total/NA
Cobalt	6.7		1.4	0.28	mg/Kg	1	✱		6010D	Total/NA
Chromium	110		1.4	0.49	mg/Kg	1	✱		6010D	Total/NA
Copper	450		3.6	0.34	mg/Kg	1	✱		6010D	Total/NA
Iron	34000		28	9.9	mg/Kg	1	✱		6010D	Total/NA
Potassium	980		710	110	mg/Kg	1	✱		6010D	Total/NA
Magnesium	53000		710	66	mg/Kg	1	✱		6010D	Total/NA
Manganese	510		2.1	1.6	mg/Kg	1	✱		6010D	Total/NA
Sodium	270	J	710	89	mg/Kg	1	✱		6010D	Total/NA
Nickel	91		5.7	0.33	mg/Kg	1	✱		6010D	Total/NA
Antimony	4.0		2.8	0.51	mg/Kg	1	✱		6010D	Total/NA
Vanadium	11		7.1	1.2	mg/Kg	1	✱		6010D	Total/NA
Zinc	1500		36	9.7	mg/Kg	5	✱		6010D	Total/NA
Arsenic	7.2		2.1	0.45	mg/Kg	1	✱		6010D	Total/NA
Lead	680		1.4	0.40	mg/Kg	1	✱		6010D	Total/NA
Selenium	0.83	J	2.8	0.67	mg/Kg	1	✱		6010D	Total/NA
Mercury	5.8		0.76	0.14	mg/Kg	5	✱		7471B	Total/NA

Client Sample ID: CM-CS-A2-629-628-221018

Lab Sample ID: 240-175006-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor-1254	8100		1200	500	ug/Kg	20	✱		8082A	Total/NA
Aluminum	6200		19	5.1	mg/Kg	1	✱		6010D	Total/NA
Silver	1.3		0.96	0.078	mg/Kg	1	✱		6010D	Total/NA
Barium	240	B	19	0.35	mg/Kg	1	✱		6010D	Total/NA
Beryllium	0.15	J	0.48	0.052	mg/Kg	1	✱		6010D	Total/NA
Calcium	130000		2400	170	mg/Kg	5	✱		6010D	Total/NA
Cadmium	11		0.48	0.046	mg/Kg	1	✱		6010D	Total/NA
Cobalt	7.2		0.96	0.19	mg/Kg	1	✱		6010D	Total/NA
Chromium	120		0.96	0.33	mg/Kg	1	✱		6010D	Total/NA
Copper	600		12	1.1	mg/Kg	5	✱		6010D	Total/NA
Iron	33000		19	6.7	mg/Kg	1	✱		6010D	Total/NA
Potassium	660		480	76	mg/Kg	1	✱		6010D	Total/NA
Magnesium	69000		2400	220	mg/Kg	5	✱		6010D	Total/NA
Manganese	470		1.4	1.1	mg/Kg	1	✱		6010D	Total/NA
Sodium	320	J	480	60	mg/Kg	1	✱		6010D	Total/NA
Nickel	150		3.8	0.22	mg/Kg	1	✱		6010D	Total/NA
Antimony	8.6		1.9	0.34	mg/Kg	1	✱		6010D	Total/NA
Vanadium	11		4.8	0.79	mg/Kg	1	✱		6010D	Total/NA
Zinc	1800		24	6.6	mg/Kg	5	✱		6010D	Total/NA
Arsenic	10		1.4	0.30	mg/Kg	1	✱		6010D	Total/NA
Lead	760		0.96	0.27	mg/Kg	1	✱		6010D	Total/NA
Selenium	0.55	J	1.9	0.45	mg/Kg	1	✱		6010D	Total/NA
Mercury	5.6		0.58	0.10	mg/Kg	5	✱		7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-A2-628-627-221018

Lab Sample ID: 240-175006-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	1500		1100	400	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	7000		1100	440	ug/Kg	20	✱	8082A	Total/NA
Aluminum	3500		16	4.2	mg/Kg	1	✱	6010D	Total/NA
Silver	0.75	J	0.78	0.063	mg/Kg	1	✱	6010D	Total/NA
Barium	190	B	16	0.28	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.14	J	0.39	0.042	mg/Kg	1	✱	6010D	Total/NA
Calcium	120000		2000	140	mg/Kg	5	✱	6010D	Total/NA
Cadmium	9.9		0.39	0.038	mg/Kg	1	✱	6010D	Total/NA
Cobalt	6.3		0.78	0.16	mg/Kg	1	✱	6010D	Total/NA
Chromium	52		0.78	0.27	mg/Kg	1	✱	6010D	Total/NA
Copper	470		9.8	0.92	mg/Kg	5	✱	6010D	Total/NA
Iron	29000		16	5.4	mg/Kg	1	✱	6010D	Total/NA
Potassium	690		390	62	mg/Kg	1	✱	6010D	Total/NA
Magnesium	55000		2000	180	mg/Kg	5	✱	6010D	Total/NA
Manganese	410		1.2	0.87	mg/Kg	1	✱	6010D	Total/NA
Sodium	250	J	390	49	mg/Kg	1	✱	6010D	Total/NA
Nickel	92		3.1	0.18	mg/Kg	1	✱	6010D	Total/NA
Antimony	4.1		1.6	0.28	mg/Kg	1	✱	6010D	Total/NA
Vanadium	10		3.9	0.64	mg/Kg	1	✱	6010D	Total/NA
Zinc	1300		20	5.3	mg/Kg	5	✱	6010D	Total/NA
Arsenic	16		1.2	0.25	mg/Kg	1	✱	6010D	Total/NA
Lead	460		0.78	0.22	mg/Kg	1	✱	6010D	Total/NA
Selenium	1.6		1.6	0.37	mg/Kg	1	✱	6010D	Total/NA
Mercury	3.7		0.53	0.095	mg/Kg	5	✱	7471B	Total/NA

Client Sample ID: CM-CS-A3-629-628-221018

Lab Sample ID: 240-175006-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	7900		2800	1100	ug/Kg	50	✱	8082A	Total/NA
Aroclor-1254	20000		2800	1200	ug/Kg	50	✱	8082A	Total/NA

Client Sample ID: CM-CS-A3-628-627-221018

Lab Sample ID: 240-175006-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	3000		1100	410	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	8100		1100	450	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-A4-629-628-221018

Lab Sample ID: 240-175006-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	3800		3000	1100	ug/Kg	50	✱	8082A	Total/NA
Aroclor-1254	20000		3000	1300	ug/Kg	50	✱	8082A	Total/NA

Client Sample ID: CM-CS-A4-628-627-221018

Lab Sample ID: 240-175006-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	5000		1200	460	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	19000		1200	510	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-B2-629-628-221018

Lab Sample ID: 240-175006-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	2100		580	220	ug/Kg	10	✱	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-B2-629-628-221018 (Continued)

Lab Sample ID: 240-175006-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	4100		580	240	ug/Kg	10	✱	8082A	Total/NA

Client Sample ID: CM-CS-B2-628-627-221018

Lab Sample ID: 240-175006-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	54000		5800	2200	ug/Kg	100	✱	8082A	Total/NA
Aroclor-1254	21000		5800	2500	ug/Kg	100	✱	8082A	Total/NA

Client Sample ID: CM-CS-B3-629-628-221018

Lab Sample ID: 240-175006-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	4900		590	220	ug/Kg	10	✱	8082A	Total/NA
Aroclor-1254	13000		590	250	ug/Kg	10	✱	8082A	Total/NA

Client Sample ID: CM-CS-B3-628-627-221018

Lab Sample ID: 240-175006-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	7400		1100	440	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	18000		1100	480	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-DUP01-221018

Lab Sample ID: 240-175006-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	9600		1300	480	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	17000		1300	530	ug/Kg	20	✱	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-H1-630-629-221014

Lab Sample ID: 240-175006-1

Date Collected: 10/14/22 10:35

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 67.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<770		770	380	ug/Kg	✱	10/20/22 14:44	10/21/22 22:43	10
Aroclor-1221	<770		770	460	ug/Kg	✱	10/20/22 14:44	10/21/22 22:43	10
Aroclor-1232	<770		770	320	ug/Kg	✱	10/20/22 14:44	10/21/22 22:43	10
Aroclor-1242	630	J	770	290	ug/Kg	✱	10/20/22 14:44	10/21/22 22:43	10
Aroclor-1248	<770		770	260	ug/Kg	✱	10/20/22 14:44	10/21/22 22:43	10
Aroclor-1254	7500		770	320	ug/Kg	✱	10/20/22 14:44	10/21/22 22:43	10
Aroclor-1260	<770		770	320	ug/Kg	✱	10/20/22 14:44	10/21/22 22:43	10
Aroclor-1262	<770		770	340	ug/Kg	✱	10/20/22 14:44	10/21/22 22:43	10
Aroclor-1268	<770		770	250	ug/Kg	✱	10/20/22 14:44	10/21/22 22:43	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	92		10 - 149	10/20/22 14:44	10/21/22 22:43	10
DCB Decachlorobiphenyl	122		10 - 174	10/20/22 14:44	10/21/22 22:43	10

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5300		28	7.6	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Silver	1.0	J	1.4	0.12	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Barium	260	B	28	0.51	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Beryllium	0.22	J	0.71	0.077	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Calcium	93000		710	52	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Cadmium	8.2		0.71	0.068	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Cobalt	6.7		1.4	0.28	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Chromium	110		1.4	0.49	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Copper	450		3.6	0.34	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Iron	34000		28	9.9	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Potassium	980		710	110	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Magnesium	53000		710	66	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Manganese	510		2.1	1.6	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Sodium	270	J	710	89	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Nickel	91		5.7	0.33	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Antimony	4.0		2.8	0.51	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Vanadium	11		7.1	1.2	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Zinc	1500		36	9.7	mg/Kg	✱	10/20/22 14:00	10/21/22 20:19	5
Arsenic	7.2		2.1	0.45	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Lead	680		1.4	0.40	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Selenium	0.83	J	2.8	0.67	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1
Thallium	<2.8		2.8	0.57	mg/Kg	✱	10/20/22 14:00	10/21/22 12:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.8		0.76	0.14	mg/Kg	✱	10/20/22 14:00	10/21/22 13:25	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	67.0		0.1	0.1	%			10/20/22 13:11	1
Percent Moisture (EPA Moisture)	33.0		0.1	0.1	%			10/20/22 13:11	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-A2-629-628-221018

Lab Sample ID: 240-175006-2

Date Collected: 10/18/22 08:15

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 89.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200		1200	590	ug/Kg	✱	10/20/22 14:44	10/21/22 23:00	20
Aroclor-1221	<1200		1200	710	ug/Kg	✱	10/20/22 14:44	10/21/22 23:00	20
Aroclor-1232	<1200		1200	500	ug/Kg	✱	10/20/22 14:44	10/21/22 23:00	20
Aroclor-1242	<1200		1200	450	ug/Kg	✱	10/20/22 14:44	10/21/22 23:00	20
Aroclor-1248	<1200		1200	400	ug/Kg	✱	10/20/22 14:44	10/21/22 23:00	20
Aroclor-1254	8100		1200	500	ug/Kg	✱	10/20/22 14:44	10/21/22 23:00	20
Aroclor-1260	<1200		1200	500	ug/Kg	✱	10/20/22 14:44	10/21/22 23:00	20
Aroclor-1262	<1200		1200	520	ug/Kg	✱	10/20/22 14:44	10/21/22 23:00	20
Aroclor-1268	<1200		1200	380	ug/Kg	✱	10/20/22 14:44	10/21/22 23:00	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	48		10 - 149				10/20/22 14:44	10/21/22 23:00	20
DCB Decachlorobiphenyl	37	p	10 - 174				10/20/22 14:44	10/21/22 23:00	20

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6200		19	5.1	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Silver	1.3		0.96	0.078	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Barium	240	B	19	0.35	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Beryllium	0.15	J	0.48	0.052	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Calcium	130000		2400	170	mg/Kg	✱	10/20/22 14:00	10/21/22 20:23	5
Cadmium	11		0.48	0.046	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Cobalt	7.2		0.96	0.19	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Chromium	120		0.96	0.33	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Copper	600		12	1.1	mg/Kg	✱	10/20/22 14:00	10/21/22 20:23	5
Iron	33000		19	6.7	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Potassium	660		480	76	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Magnesium	69000		2400	220	mg/Kg	✱	10/20/22 14:00	10/21/22 20:23	5
Manganese	470		1.4	1.1	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Sodium	320	J	480	60	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Nickel	150		3.8	0.22	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Antimony	8.6		1.9	0.34	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Vanadium	11		4.8	0.79	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Zinc	1800		24	6.6	mg/Kg	✱	10/20/22 14:00	10/21/22 20:23	5
Arsenic	10		1.4	0.30	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Lead	760		0.96	0.27	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Selenium	0.55	J	1.9	0.45	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1
Thallium	<1.9		1.9	0.38	mg/Kg	✱	10/20/22 14:00	10/21/22 12:56	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.6		0.58	0.10	mg/Kg	✱	10/20/22 14:00	10/21/22 13:20	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	89.1		0.1	0.1	%			10/20/22 13:11	1
Percent Moisture (EPA Moisture)	10.9		0.1	0.1	%			10/20/22 13:11	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-A2-628-627-221018

Lab Sample ID: 240-175006-3

Date Collected: 10/18/22 08:15

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 91.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1100		1100	530	ug/Kg	✱	10/20/22 14:44	10/21/22 23:17	20
Aroclor-1221	<1100		1100	630	ug/Kg	✱	10/20/22 14:44	10/21/22 23:17	20
Aroclor-1232	<1100		1100	440	ug/Kg	✱	10/20/22 14:44	10/21/22 23:17	20
Aroclor-1242	1500		1100	400	ug/Kg	✱	10/20/22 14:44	10/21/22 23:17	20
Aroclor-1248	<1100		1100	360	ug/Kg	✱	10/20/22 14:44	10/21/22 23:17	20
Aroclor-1254	7000		1100	440	ug/Kg	✱	10/20/22 14:44	10/21/22 23:17	20
Aroclor-1260	<1100		1100	440	ug/Kg	✱	10/20/22 14:44	10/21/22 23:17	20
Aroclor-1262	<1100		1100	460	ug/Kg	✱	10/20/22 14:44	10/21/22 23:17	20
Aroclor-1268	<1100		1100	340	ug/Kg	✱	10/20/22 14:44	10/21/22 23:17	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		10 - 149	10/20/22 14:44	10/21/22 23:17	20
DCB Decachlorobiphenyl	75		10 - 174	10/20/22 14:44	10/21/22 23:17	20

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3500		16	4.2	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Silver	0.75	J	0.78	0.063	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Barium	190	B	16	0.28	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Beryllium	0.14	J	0.39	0.042	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Calcium	120000		2000	140	mg/Kg	✱	10/20/22 14:00	10/21/22 20:27	5
Cadmium	9.9		0.39	0.038	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Cobalt	6.3		0.78	0.16	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Chromium	52		0.78	0.27	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Copper	470		9.8	0.92	mg/Kg	✱	10/20/22 14:00	10/21/22 20:27	5
Iron	29000		16	5.4	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Potassium	690		390	62	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Magnesium	55000		2000	180	mg/Kg	✱	10/20/22 14:00	10/21/22 20:27	5
Manganese	410		1.2	0.87	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Sodium	250	J	390	49	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Nickel	92		3.1	0.18	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Antimony	4.1		1.6	0.28	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Vanadium	10		3.9	0.64	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Zinc	1300		20	5.3	mg/Kg	✱	10/20/22 14:00	10/21/22 20:27	5
Arsenic	16		1.2	0.25	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Lead	460		0.78	0.22	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Selenium	1.6		1.6	0.37	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1
Thallium	<1.6		1.6	0.31	mg/Kg	✱	10/20/22 14:00	10/21/22 13:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.7		0.53	0.095	mg/Kg	✱	10/20/22 14:00	10/21/22 13:22	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	91.4		0.1	0.1	%			10/20/22 13:11	1
Percent Moisture (EPA Moisture)	8.6		0.1	0.1	%			10/20/22 13:11	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-A3-629-628-221018

Lab Sample ID: 240-175006-4

Date Collected: 10/18/22 08:06

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 89.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<2800		2800	1400	ug/Kg	✱	10/20/22 14:44	10/21/22 23:34	50
Aroclor-1221	<2800		2800	1700	ug/Kg	✱	10/20/22 14:44	10/21/22 23:34	50
Aroclor-1232	<2800		2800	1200	ug/Kg	✱	10/20/22 14:44	10/21/22 23:34	50
Aroclor-1242	7900		2800	1100	ug/Kg	✱	10/20/22 14:44	10/21/22 23:34	50
Aroclor-1248	<2800		2800	960	ug/Kg	✱	10/20/22 14:44	10/21/22 23:34	50
Aroclor-1254	20000		2800	1200	ug/Kg	✱	10/20/22 14:44	10/21/22 23:34	50
Aroclor-1260	<2800		2800	1200	ug/Kg	✱	10/20/22 14:44	10/21/22 23:34	50
Aroclor-1262	<2800		2800	1200	ug/Kg	✱	10/20/22 14:44	10/21/22 23:34	50
Aroclor-1268	<2800		2800	900	ug/Kg	✱	10/20/22 14:44	10/21/22 23:34	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	2	S1- p	10 - 149	10/20/22 14:44	10/21/22 23:34	50
DCB Decachlorobiphenyl	0	S1-	10 - 174	10/20/22 14:44	10/21/22 23:34	50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	89.3		0.1	0.1	%			10/20/22 13:11	1
Percent Moisture (EPA Moisture)	10.7		0.1	0.1	%			10/20/22 13:11	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-A3-628-627-221018

Lab Sample ID: 240-175006-5

Date Collected: 10/18/22 08:06

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 95.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1100	F1	1100	540	ug/Kg	✱	10/20/22 14:44	10/21/22 23:51	20
Aroclor-1221	<1100		1100	650	ug/Kg	✱	10/20/22 14:44	10/21/22 23:51	20
Aroclor-1232	<1100		1100	450	ug/Kg	✱	10/20/22 14:44	10/21/22 23:51	20
Aroclor-1242	3000		1100	410	ug/Kg	✱	10/20/22 14:44	10/21/22 23:51	20
Aroclor-1248	<1100		1100	370	ug/Kg	✱	10/20/22 14:44	10/21/22 23:51	20
Aroclor-1254	8100		1100	450	ug/Kg	✱	10/20/22 14:44	10/21/22 23:51	20
Aroclor-1260	<1100	F1	1100	450	ug/Kg	✱	10/20/22 14:44	10/21/22 23:51	20
Aroclor-1262	<1100		1100	470	ug/Kg	✱	10/20/22 14:44	10/21/22 23:51	20
Aroclor-1268	<1100		1100	340	ug/Kg	✱	10/20/22 14:44	10/21/22 23:51	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	55		10 - 149	10/20/22 14:44	10/21/22 23:51	20
DCB Decachlorobiphenyl	53	p	10 - 174	10/20/22 14:44	10/21/22 23:51	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	95.7		0.1	0.1	%			10/20/22 13:11	1
Percent Moisture (EPA Moisture)	4.3		0.1	0.1	%			10/20/22 13:11	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-A4-629-628-221018

Lab Sample ID: 240-175006-6

Date Collected: 10/18/22 07:55

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 85.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<3000		3000	1500	ug/Kg	✱	10/20/22 14:44	10/22/22 00:41	50
Aroclor-1221	<3000		3000	1800	ug/Kg	✱	10/20/22 14:44	10/22/22 00:41	50
Aroclor-1232	<3000		3000	1300	ug/Kg	✱	10/20/22 14:44	10/22/22 00:41	50
Aroclor-1242	3800		3000	1100	ug/Kg	✱	10/20/22 14:44	10/22/22 00:41	50
Aroclor-1248	<3000		3000	1000	ug/Kg	✱	10/20/22 14:44	10/22/22 00:41	50
Aroclor-1254	20000		3000	1300	ug/Kg	✱	10/20/22 14:44	10/22/22 00:41	50
Aroclor-1260	<3000		3000	1300	ug/Kg	✱	10/20/22 14:44	10/22/22 00:41	50
Aroclor-1262	<3000		3000	1300	ug/Kg	✱	10/20/22 14:44	10/22/22 00:41	50
Aroclor-1268	<3000		3000	960	ug/Kg	✱	10/20/22 14:44	10/22/22 00:41	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	S1-	10 - 149	10/20/22 14:44	10/22/22 00:41	50
DCB Decachlorobiphenyl	0	S1-	10 - 174	10/20/22 14:44	10/22/22 00:41	50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	85.2		0.1	0.1	%			10/20/22 15:20	1
Percent Moisture (EPA Moisture)	14.8		0.1	0.1	%			10/20/22 15:20	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-A4-628-627-221018

Lab Sample ID: 240-175006-7

Date Collected: 10/18/22 07:55

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 84.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200		1200	610	ug/Kg	✱	10/20/22 14:44	10/24/22 09:41	20
Aroclor-1221	<1200		1200	730	ug/Kg	✱	10/20/22 14:44	10/24/22 09:41	20
Aroclor-1232	<1200		1200	510	ug/Kg	✱	10/20/22 14:44	10/24/22 09:41	20
Aroclor-1242	5000		1200	460	ug/Kg	✱	10/20/22 14:44	10/24/22 09:41	20
Aroclor-1248	<1200		1200	420	ug/Kg	✱	10/20/22 14:44	10/24/22 09:41	20
Aroclor-1254	19000		1200	510	ug/Kg	✱	10/20/22 14:44	10/24/22 09:41	20
Aroclor-1260	<1200		1200	510	ug/Kg	✱	10/20/22 14:44	10/24/22 09:41	20
Aroclor-1262	<1200		1200	540	ug/Kg	✱	10/20/22 14:44	10/24/22 09:41	20
Aroclor-1268	<1200		1200	390	ug/Kg	✱	10/20/22 14:44	10/24/22 09:41	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		10 - 149	10/20/22 14:44	10/24/22 09:41	20
DCB Decachlorobiphenyl	97		10 - 174	10/20/22 14:44	10/24/22 09:41	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	84.7		0.1	0.1	%			10/20/22 15:20	1
Percent Moisture (EPA Moisture)	15.3		0.1	0.1	%			10/20/22 15:20	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-B2-629-628-221018

Lab Sample ID: 240-175006-8

Date Collected: 10/18/22 08:25

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 86.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<580		580	290	ug/Kg	✱	10/20/22 14:44	10/22/22 01:15	10
Aroclor-1221	<580		580	350	ug/Kg	✱	10/20/22 14:44	10/22/22 01:15	10
Aroclor-1232	<580		580	240	ug/Kg	✱	10/20/22 14:44	10/22/22 01:15	10
Aroclor-1242	2100		580	220	ug/Kg	✱	10/20/22 14:44	10/22/22 01:15	10
Aroclor-1248	<580		580	200	ug/Kg	✱	10/20/22 14:44	10/22/22 01:15	10
Aroclor-1254	4100		580	240	ug/Kg	✱	10/20/22 14:44	10/22/22 01:15	10
Aroclor-1260	<580		580	240	ug/Kg	✱	10/20/22 14:44	10/22/22 01:15	10
Aroclor-1262	<580		580	260	ug/Kg	✱	10/20/22 14:44	10/22/22 01:15	10
Aroclor-1268	<580		580	190	ug/Kg	✱	10/20/22 14:44	10/22/22 01:15	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	22		10 - 149	10/20/22 14:44	10/22/22 01:15	10
DCB Decachlorobiphenyl	40		10 - 174	10/20/22 14:44	10/22/22 01:15	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	86.1		0.1	0.1	%			10/20/22 15:20	1
Percent Moisture (EPA Moisture)	13.9		0.1	0.1	%			10/20/22 15:20	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-B2-628-627-221018

Lab Sample ID: 240-175006-9

Date Collected: 10/18/22 08:25

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 83.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<5800		5800	2900	ug/Kg	✱	10/20/22 14:44	10/24/22 09:58	100
Aroclor-1221	<5800		5800	3500	ug/Kg	✱	10/20/22 14:44	10/24/22 09:58	100
Aroclor-1232	<5800		5800	2500	ug/Kg	✱	10/20/22 14:44	10/24/22 09:58	100
Aroclor-1242	54000		5800	2200	ug/Kg	✱	10/20/22 14:44	10/24/22 09:58	100
Aroclor-1248	<5800		5800	2000	ug/Kg	✱	10/20/22 14:44	10/24/22 09:58	100
Aroclor-1254	21000		5800	2500	ug/Kg	✱	10/20/22 14:44	10/24/22 09:58	100
Aroclor-1260	<5800		5800	2500	ug/Kg	✱	10/20/22 14:44	10/24/22 09:58	100
Aroclor-1262	<5800		5800	2600	ug/Kg	✱	10/20/22 14:44	10/24/22 09:58	100
Aroclor-1268	<5800		5800	1900	ug/Kg	✱	10/20/22 14:44	10/24/22 09:58	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	S1-	10 - 149	10/20/22 14:44	10/24/22 09:58	100
DCB Decachlorobiphenyl	0	S1-	10 - 174	10/20/22 14:44	10/24/22 09:58	100

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	83.4		0.1	0.1	%			10/20/22 15:20	1
Percent Moisture (EPA Moisture)	16.6		0.1	0.1	%			10/20/22 15:20	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-B3-629-628-221018

Lab Sample ID: 240-175006-10

Date Collected: 10/18/22 07:44

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 85.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<590		590	290	ug/Kg	✱	10/20/22 14:44	10/22/22 01:49	10
Aroclor-1221	<590		590	350	ug/Kg	✱	10/20/22 14:44	10/22/22 01:49	10
Aroclor-1232	<590		590	250	ug/Kg	✱	10/20/22 14:44	10/22/22 01:49	10
Aroclor-1242	4900		590	220	ug/Kg	✱	10/20/22 14:44	10/22/22 01:49	10
Aroclor-1248	<590		590	200	ug/Kg	✱	10/20/22 14:44	10/22/22 01:49	10
Aroclor-1254	13000		590	250	ug/Kg	✱	10/20/22 14:44	10/22/22 01:49	10
Aroclor-1260	<590		590	250	ug/Kg	✱	10/20/22 14:44	10/22/22 01:49	10
Aroclor-1262	<590		590	260	ug/Kg	✱	10/20/22 14:44	10/22/22 01:49	10
Aroclor-1268	<590		590	190	ug/Kg	✱	10/20/22 14:44	10/22/22 01:49	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		10 - 149	10/20/22 14:44	10/22/22 01:49	10
DCB Decachlorobiphenyl	69		10 - 174	10/20/22 14:44	10/22/22 01:49	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	85.2		0.1	0.1	%			10/20/22 15:20	1
Percent Moisture (EPA Moisture)	14.8		0.1	0.1	%			10/20/22 15:20	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-B3-628-627-221018

Lab Sample ID: 240-175006-11

Date Collected: 10/18/22 07:44

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 87.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1100		1100	570	ug/Kg	✱	10/20/22 14:44	10/24/22 10:15	20
Aroclor-1221	<1100		1100	690	ug/Kg	✱	10/20/22 14:44	10/24/22 10:15	20
Aroclor-1232	<1100		1100	480	ug/Kg	✱	10/20/22 14:44	10/24/22 10:15	20
Aroclor-1242	7400		1100	440	ug/Kg	✱	10/20/22 14:44	10/24/22 10:15	20
Aroclor-1248	<1100		1100	390	ug/Kg	✱	10/20/22 14:44	10/24/22 10:15	20
Aroclor-1254	18000		1100	480	ug/Kg	✱	10/20/22 14:44	10/24/22 10:15	20
Aroclor-1260	<1100		1100	480	ug/Kg	✱	10/20/22 14:44	10/24/22 10:15	20
Aroclor-1262	<1100		1100	500	ug/Kg	✱	10/20/22 14:44	10/24/22 10:15	20
Aroclor-1268	<1100		1100	370	ug/Kg	✱	10/20/22 14:44	10/24/22 10:15	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60		10 - 149	10/20/22 14:44	10/24/22 10:15	20
DCB Decachlorobiphenyl	53	p	10 - 174	10/20/22 14:44	10/24/22 10:15	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	87.1		0.1	0.1	%			10/20/22 15:20	1
Percent Moisture (EPA Moisture)	12.9		0.1	0.1	%			10/20/22 15:20	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-DUP01-221018

Lab Sample ID: 240-175006-12

Date Collected: 10/18/22 07:44

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 79.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1300		1300	630	ug/Kg	✱	10/20/22 14:44	10/24/22 10:31	20
Aroclor-1221	<1300		1300	750	ug/Kg	✱	10/20/22 14:44	10/24/22 10:31	20
Aroclor-1232	<1300		1300	530	ug/Kg	✱	10/20/22 14:44	10/24/22 10:31	20
Aroclor-1242	9600		1300	480	ug/Kg	✱	10/20/22 14:44	10/24/22 10:31	20
Aroclor-1248	<1300		1300	430	ug/Kg	✱	10/20/22 14:44	10/24/22 10:31	20
Aroclor-1254	17000		1300	530	ug/Kg	✱	10/20/22 14:44	10/24/22 10:31	20
Aroclor-1260	<1300		1300	530	ug/Kg	✱	10/20/22 14:44	10/24/22 10:31	20
Aroclor-1262	<1300		1300	550	ug/Kg	✱	10/20/22 14:44	10/24/22 10:31	20
Aroclor-1268	<1300		1300	400	ug/Kg	✱	10/20/22 14:44	10/24/22 10:31	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	43	p	10 - 149	10/20/22 14:44	10/24/22 10:31	20
DCB Decachlorobiphenyl	22	p	10 - 174	10/20/22 14:44	10/24/22 10:31	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	79.2		0.1	0.1	%			10/20/22 15:20	1
Percent Moisture (EPA Moisture)	20.8		0.1	0.1	%			10/20/22 15:20	1

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1	DCBP1
		(10-149)	(10-174)
240-175006-1	CM-CS-H1-630-629-221014	92	122
240-175006-2	CM-CS-A2-629-628-221018	48	37 p
240-175006-3	CM-CS-A2-628-627-221018	64	75
240-175006-4	CM-CS-A3-629-628-221018	2 S1- p	0 S1-
240-175006-5	CM-CS-A3-628-627-221018	55	53 p
240-175006-5 MS	CM-CS-A3-628-627-221018	49	39 p
	MS		
240-175006-5 MSD	CM-CS-A3-628-627-221018	40	70
	MSD		
240-175006-6	CM-CS-A4-629-628-221018	0 S1-	0 S1-
240-175006-7	CM-CS-A4-628-627-221018	63	97
240-175006-8	CM-CS-B2-629-628-221018	22	40
240-175006-9	CM-CS-B2-628-627-221018	0 S1-	0 S1-
240-175006-10	CM-CS-B3-629-628-221018	75	69
240-175006-11	CM-CS-B3-628-627-221018	60	53 p
240-175006-12	CM-CS-DUP01-221018	43 p	22 p
LCS 240-548026/2-A	Lab Control Sample	90	83
MB 240-548026/1-A	Method Blank	87	86

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-548026/1-A

Matrix: Solid

Analysis Batch: 548164

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 548026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<50		50	25	ug/Kg		10/20/22 14:44	10/21/22 22:10	1
Aroclor-1221	<50		50	30	ug/Kg		10/20/22 14:44	10/21/22 22:10	1
Aroclor-1232	<50		50	21	ug/Kg		10/20/22 14:44	10/21/22 22:10	1
Aroclor-1242	<50		50	19	ug/Kg		10/20/22 14:44	10/21/22 22:10	1
Aroclor-1248	<50		50	17	ug/Kg		10/20/22 14:44	10/21/22 22:10	1
Aroclor-1254	<50		50	21	ug/Kg		10/20/22 14:44	10/21/22 22:10	1
Aroclor-1260	<50		50	21	ug/Kg		10/20/22 14:44	10/21/22 22:10	1
Aroclor-1262	<50		50	22	ug/Kg		10/20/22 14:44	10/21/22 22:10	1
Aroclor-1268	<50		50	16	ug/Kg		10/20/22 14:44	10/21/22 22:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		10 - 149	10/20/22 14:44	10/21/22 22:10	1
DCB Decachlorobiphenyl	86		10 - 174	10/20/22 14:44	10/21/22 22:10	1

Lab Sample ID: LCS 240-548026/2-A

Matrix: Solid

Analysis Batch: 548164

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 548026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	1000	730		ug/Kg		73	28 - 140
Aroclor-1260	1000	752		ug/Kg		75	39 - 153

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	90		10 - 149
DCB Decachlorobiphenyl	83		10 - 174

Lab Sample ID: 240-175006-5 MS

Matrix: Solid

Analysis Batch: 548164

Client Sample ID: CM-CS-A3-628-627-221018 MS

Prep Type: Total/NA

Prep Batch: 548026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	<1100	F1	1040	4960	F1	ug/Kg	☼	478	10 - 146
Aroclor-1260	<1100	F1	1040	3990	F1	ug/Kg	☼	384	10 - 158

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	49		10 - 149
DCB Decachlorobiphenyl	39	p	10 - 174

Lab Sample ID: 240-175006-5 MSD

Matrix: Solid

Analysis Batch: 548164

Client Sample ID: CM-CS-A3-628-627-221018 MSD

Prep Type: Total/NA

Prep Batch: 548026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Aroclor-1016	<1100	F2 F1	1000	3340	F1	ug/Kg	☼	333	10 - 146	1	40
Aroclor-1260	<1100	F1	1000	3130	F1	ug/Kg	☼	313	10 - 158	24	40

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 240-175006-5 MSD

Matrix: Solid

Analysis Batch: 548164

Client Sample ID: CM-CS-A3-628-627-221018 MSD

Prep Type: Total/NA

Prep Batch: 548026

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	40		10 - 149
DCB Decachlorobiphenyl	70		10 - 174

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-547999/1-A

Matrix: Solid

Analysis Batch: 548179

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 547999

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Aluminum	<20		20	5.3	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Silver	<1.0		1.0	0.081	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Barium	0.733	J	20	0.36	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Beryllium	<0.50		0.50	0.054	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Calcium	<500		500	36	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Cadmium	<0.50		0.50	0.048	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Cobalt	<1.0		1.0	0.20	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Chromium	<1.0		1.0	0.34	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Copper	<2.5		2.5	0.24	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Iron	<20		20	6.9	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Potassium	<500		500	79	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Magnesium	<500		500	46	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Manganese	<1.5		1.5	1.1	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Sodium	<500		500	63	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Nickel	<4.0		4.0	0.23	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Antimony	<2.0		2.0	0.36	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Vanadium	<5.0		5.0	0.82	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Zinc	<5.0		5.0	1.4	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Arsenic	<1.5		1.5	0.32	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Lead	<1.0		1.0	0.28	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Selenium	<2.0		2.0	0.47	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	
Thallium	<2.0		2.0	0.40	mg/Kg		10/20/22 14:00	10/21/22 12:43	1	

Lab Sample ID: LCS 240-547999/2-A

Matrix: Solid

Analysis Batch: 548179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 547999

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Aluminum	1000	908		mg/Kg		91	80 - 120		
Silver	10.0	9.44		mg/Kg		94	80 - 120		
Barium	200	180		mg/Kg		90	80 - 120		
Beryllium	100	91.2		mg/Kg		91	80 - 120		
Calcium	5000	4510		mg/Kg		90	80 - 120		
Cadmium	100	93.3		mg/Kg		93	80 - 120		
Cobalt	100	91.4		mg/Kg		91	80 - 120		
Chromium	100	91.6		mg/Kg		92	80 - 120		
Copper	100	89.5		mg/Kg		89	80 - 120		
Iron	1000	898		mg/Kg		90	80 - 120		
Potassium	5000	4480		mg/Kg		90	80 - 120		

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-547999/2-A

Matrix: Solid

Analysis Batch: 548179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 547999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	5000	4450		mg/Kg		89	80 - 120
Manganese	100	90.8		mg/Kg		91	80 - 120
Sodium	5000	4430		mg/Kg		89	80 - 120
Nickel	100	92.7		mg/Kg		93	80 - 120
Antimony	100	97.8		mg/Kg		98	80 - 120
Vanadium	100	90.9		mg/Kg		91	80 - 120
Zinc	100	95.0		mg/Kg		95	80 - 120
Arsenic	200	187		mg/Kg		93	80 - 120
Lead	100	89.3		mg/Kg		89	80 - 120
Selenium	200	183		mg/Kg		92	80 - 120
Thallium	200	185		mg/Kg		93	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 240-548007/1-A

Matrix: Solid

Analysis Batch: 548210

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 548007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.10		0.10	0.018	mg/Kg		10/20/22 14:00	10/21/22 11:55	1

Lab Sample ID: LCS 240-548007/2-A

Matrix: Solid

Analysis Batch: 548210

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 548007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.833	0.752		mg/Kg		90	80 - 120

Method: Moisture - Percent Moisture

Lab Sample ID: 240-175006-1 DU

Matrix: Solid

Analysis Batch: 547993

Client Sample ID: CM-CS-H1-630-629-221014

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	67.0		63.4		%		6	20
Percent Moisture	33.0		36.6		%		10	20

Lab Sample ID: 240-175006-5 DU

Matrix: Solid

Analysis Batch: 547993

Client Sample ID: CM-CS-A3-628-627-221018

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	95.7		88.9		%		7	20
Percent Moisture	4.3		11.1	F3	%		89	20

Eurofins Canton

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 240-175006-9 DU				Client Sample ID: CM-CS-B2-628-627-221018			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 547993							
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD Limit
Percent Solids	83.4		83.3		%		0.08 20
Percent Moisture	16.6		16.7		%		0.4 20

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

GC Semi VOA

Prep Batch: 548026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175006-1	CM-CS-H1-630-629-221014	Total/NA	Solid	3546	
240-175006-2	CM-CS-A2-629-628-221018	Total/NA	Solid	3546	
240-175006-3	CM-CS-A2-628-627-221018	Total/NA	Solid	3546	
240-175006-4	CM-CS-A3-629-628-221018	Total/NA	Solid	3546	
240-175006-5	CM-CS-A3-628-627-221018	Total/NA	Solid	3546	
240-175006-6	CM-CS-A4-629-628-221018	Total/NA	Solid	3546	
240-175006-7	CM-CS-A4-628-627-221018	Total/NA	Solid	3546	
240-175006-8	CM-CS-B2-629-628-221018	Total/NA	Solid	3546	
240-175006-9	CM-CS-B2-628-627-221018	Total/NA	Solid	3546	
240-175006-10	CM-CS-B3-629-628-221018	Total/NA	Solid	3546	
240-175006-11	CM-CS-B3-628-627-221018	Total/NA	Solid	3546	
240-175006-12	CM-CS-DUP01-221018	Total/NA	Solid	3546	
MB 240-548026/1-A	Method Blank	Total/NA	Solid	3546	
LCS 240-548026/2-A	Lab Control Sample	Total/NA	Solid	3546	
240-175006-5 MS	CM-CS-A3-628-627-221018 MS	Total/NA	Solid	3546	
240-175006-5 MSD	CM-CS-A3-628-627-221018 MSD	Total/NA	Solid	3546	

Analysis Batch: 548164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175006-1	CM-CS-H1-630-629-221014	Total/NA	Solid	8082A	548026
240-175006-2	CM-CS-A2-629-628-221018	Total/NA	Solid	8082A	548026
240-175006-3	CM-CS-A2-628-627-221018	Total/NA	Solid	8082A	548026
240-175006-4	CM-CS-A3-629-628-221018	Total/NA	Solid	8082A	548026
240-175006-5	CM-CS-A3-628-627-221018	Total/NA	Solid	8082A	548026
240-175006-6	CM-CS-A4-629-628-221018	Total/NA	Solid	8082A	548026
240-175006-8	CM-CS-B2-629-628-221018	Total/NA	Solid	8082A	548026
240-175006-10	CM-CS-B3-629-628-221018	Total/NA	Solid	8082A	548026
MB 240-548026/1-A	Method Blank	Total/NA	Solid	8082A	548026
LCS 240-548026/2-A	Lab Control Sample	Total/NA	Solid	8082A	548026
240-175006-5 MS	CM-CS-A3-628-627-221018 MS	Total/NA	Solid	8082A	548026
240-175006-5 MSD	CM-CS-A3-628-627-221018 MSD	Total/NA	Solid	8082A	548026

Analysis Batch: 548350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175006-7	CM-CS-A4-628-627-221018	Total/NA	Solid	8082A	548026
240-175006-9	CM-CS-B2-628-627-221018	Total/NA	Solid	8082A	548026
240-175006-11	CM-CS-B3-628-627-221018	Total/NA	Solid	8082A	548026
240-175006-12	CM-CS-DUP01-221018	Total/NA	Solid	8082A	548026

Metals

Prep Batch: 547999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175006-1	CM-CS-H1-630-629-221014	Total/NA	Solid	3050B	
240-175006-2	CM-CS-A2-629-628-221018	Total/NA	Solid	3050B	
240-175006-3	CM-CS-A2-628-627-221018	Total/NA	Solid	3050B	
MB 240-547999/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 240-547999/2-A	Lab Control Sample	Total/NA	Solid	3050B	

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QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Metals

Prep Batch: 548007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175006-1	CM-CS-H1-630-629-221014	Total/NA	Solid	7471B	
240-175006-2	CM-CS-A2-629-628-221018	Total/NA	Solid	7471B	
240-175006-3	CM-CS-A2-628-627-221018	Total/NA	Solid	7471B	
MB 240-548007/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 240-548007/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 548179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175006-1	CM-CS-H1-630-629-221014	Total/NA	Solid	6010D	547999
240-175006-1	CM-CS-H1-630-629-221014	Total/NA	Solid	6010D	547999
240-175006-2	CM-CS-A2-629-628-221018	Total/NA	Solid	6010D	547999
240-175006-2	CM-CS-A2-629-628-221018	Total/NA	Solid	6010D	547999
240-175006-3	CM-CS-A2-628-627-221018	Total/NA	Solid	6010D	547999
240-175006-3	CM-CS-A2-628-627-221018	Total/NA	Solid	6010D	547999
MB 240-547999/1-A	Method Blank	Total/NA	Solid	6010D	547999
LCS 240-547999/2-A	Lab Control Sample	Total/NA	Solid	6010D	547999

Analysis Batch: 548210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175006-1	CM-CS-H1-630-629-221014	Total/NA	Solid	7471B	548007
240-175006-2	CM-CS-A2-629-628-221018	Total/NA	Solid	7471B	548007
240-175006-3	CM-CS-A2-628-627-221018	Total/NA	Solid	7471B	548007
MB 240-548007/1-A	Method Blank	Total/NA	Solid	7471B	548007
LCS 240-548007/2-A	Lab Control Sample	Total/NA	Solid	7471B	548007

General Chemistry

Analysis Batch: 547993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175006-1	CM-CS-H1-630-629-221014	Total/NA	Solid	Moisture	
240-175006-2	CM-CS-A2-629-628-221018	Total/NA	Solid	Moisture	
240-175006-3	CM-CS-A2-628-627-221018	Total/NA	Solid	Moisture	
240-175006-4	CM-CS-A3-629-628-221018	Total/NA	Solid	Moisture	
240-175006-5	CM-CS-A3-628-627-221018	Total/NA	Solid	Moisture	
240-175006-6	CM-CS-A4-629-628-221018	Total/NA	Solid	Moisture	
240-175006-7	CM-CS-A4-628-627-221018	Total/NA	Solid	Moisture	
240-175006-8	CM-CS-B2-629-628-221018	Total/NA	Solid	Moisture	
240-175006-9	CM-CS-B2-628-627-221018	Total/NA	Solid	Moisture	
240-175006-10	CM-CS-B3-629-628-221018	Total/NA	Solid	Moisture	
240-175006-11	CM-CS-B3-628-627-221018	Total/NA	Solid	Moisture	
240-175006-12	CM-CS-DUP01-221018	Total/NA	Solid	Moisture	
240-175006-1 DU	CM-CS-H1-630-629-221014	Total/NA	Solid	Moisture	
240-175006-5 DU	CM-CS-A3-628-627-221018	Total/NA	Solid	Moisture	
240-175006-9 DU	CM-CS-B2-628-627-221018	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-H1-630-629-221014

Lab Sample ID: 240-175006-1

Date Collected: 10/14/22 10:35

Matrix: Solid

Date Received: 10/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547993	BLW	EET CAN	10/20/22 13:11

Client Sample ID: CM-CS-H1-630-629-221014

Lab Sample ID: 240-175006-1

Date Collected: 10/14/22 10:35

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 67.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548026	AJ	EET CAN	10/20/22 14:44
Total/NA	Analysis	8082A		10	548164	LSH	EET CAN	10/21/22 22:43
Total/NA	Prep	3050B			547999	DEE	EET CAN	10/20/22 14:00
Total/NA	Analysis	6010D		1	548179	KLC	EET CAN	10/21/22 12:52
Total/NA	Prep	3050B			547999	DEE	EET CAN	10/20/22 14:00
Total/NA	Analysis	6010D		5	548179	KLC	EET CAN	10/21/22 20:19
Total/NA	Prep	7471B			548007	DEE	EET CAN	10/20/22 14:00
Total/NA	Analysis	7471B		5	548210	MRL	EET CAN	10/21/22 13:25

Client Sample ID: CM-CS-A2-629-628-221018

Lab Sample ID: 240-175006-2

Date Collected: 10/18/22 08:15

Matrix: Solid

Date Received: 10/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547993	BLW	EET CAN	10/20/22 13:11

Client Sample ID: CM-CS-A2-629-628-221018

Lab Sample ID: 240-175006-2

Date Collected: 10/18/22 08:15

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548026	AJ	EET CAN	10/20/22 14:44
Total/NA	Analysis	8082A		20	548164	LSH	EET CAN	10/21/22 23:00
Total/NA	Prep	3050B			547999	DEE	EET CAN	10/20/22 14:00
Total/NA	Analysis	6010D		1	548179	KLC	EET CAN	10/21/22 12:56
Total/NA	Prep	3050B			547999	DEE	EET CAN	10/20/22 14:00
Total/NA	Analysis	6010D		5	548179	KLC	EET CAN	10/21/22 20:23
Total/NA	Prep	7471B			548007	DEE	EET CAN	10/20/22 14:00
Total/NA	Analysis	7471B		5	548210	MRL	EET CAN	10/21/22 13:20

Client Sample ID: CM-CS-A2-628-627-221018

Lab Sample ID: 240-175006-3

Date Collected: 10/18/22 08:15

Matrix: Solid

Date Received: 10/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547993	BLW	EET CAN	10/20/22 13:11

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Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-A2-628-627-221018

Lab Sample ID: 240-175006-3

Date Collected: 10/18/22 08:15

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548026	AJ	EET CAN	10/20/22 14:44
Total/NA	Analysis	8082A		20	548164	LSH	EET CAN	10/21/22 23:17
Total/NA	Prep	3050B			547999	DEE	EET CAN	10/20/22 14:00
Total/NA	Analysis	6010D		1	548179	KLC	EET CAN	10/21/22 13:00
Total/NA	Prep	3050B			547999	DEE	EET CAN	10/20/22 14:00
Total/NA	Analysis	6010D		5	548179	KLC	EET CAN	10/21/22 20:27
Total/NA	Prep	7471B			548007	DEE	EET CAN	10/20/22 14:00
Total/NA	Analysis	7471B		5	548210	MRL	EET CAN	10/21/22 13:22

Client Sample ID: CM-CS-A3-629-628-221018

Lab Sample ID: 240-175006-4

Date Collected: 10/18/22 08:06

Matrix: Solid

Date Received: 10/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547993	BLW	EET CAN	10/20/22 13:11

Client Sample ID: CM-CS-A3-629-628-221018

Lab Sample ID: 240-175006-4

Date Collected: 10/18/22 08:06

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548026	AJ	EET CAN	10/20/22 14:44
Total/NA	Analysis	8082A		50	548164	LSH	EET CAN	10/21/22 23:34

Client Sample ID: CM-CS-A3-628-627-221018

Lab Sample ID: 240-175006-5

Date Collected: 10/18/22 08:06

Matrix: Solid

Date Received: 10/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547993	BLW	EET CAN	10/20/22 13:11

Client Sample ID: CM-CS-A3-628-627-221018

Lab Sample ID: 240-175006-5

Date Collected: 10/18/22 08:06

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548026	AJ	EET CAN	10/20/22 14:44
Total/NA	Analysis	8082A		20	548164	LSH	EET CAN	10/21/22 23:51

Client Sample ID: CM-CS-A4-629-628-221018

Lab Sample ID: 240-175006-6

Date Collected: 10/18/22 07:55

Matrix: Solid

Date Received: 10/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547993	BLW	EET CAN	10/20/22 15:20

Eurofins Canton

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-A4-629-628-221018

Lab Sample ID: 240-175006-6

Date Collected: 10/18/22 07:55

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548026	AJ	EET CAN	10/20/22 14:44
Total/NA	Analysis	8082A		50	548164	LSH	EET CAN	10/22/22 00:41

Client Sample ID: CM-CS-A4-628-627-221018

Lab Sample ID: 240-175006-7

Date Collected: 10/18/22 07:55

Matrix: Solid

Date Received: 10/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547993	BLW	EET CAN	10/20/22 15:20

Client Sample ID: CM-CS-A4-628-627-221018

Lab Sample ID: 240-175006-7

Date Collected: 10/18/22 07:55

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548026	AJ	EET CAN	10/20/22 14:44
Total/NA	Analysis	8082A		20	548350	LSH	EET CAN	10/24/22 09:41

Client Sample ID: CM-CS-B2-629-628-221018

Lab Sample ID: 240-175006-8

Date Collected: 10/18/22 08:25

Matrix: Solid

Date Received: 10/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547993	BLW	EET CAN	10/20/22 15:20

Client Sample ID: CM-CS-B2-629-628-221018

Lab Sample ID: 240-175006-8

Date Collected: 10/18/22 08:25

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548026	AJ	EET CAN	10/20/22 14:44
Total/NA	Analysis	8082A		10	548164	LSH	EET CAN	10/22/22 01:15

Client Sample ID: CM-CS-B2-628-627-221018

Lab Sample ID: 240-175006-9

Date Collected: 10/18/22 08:25

Matrix: Solid

Date Received: 10/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547993	BLW	EET CAN	10/20/22 15:20

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-B2-628-627-221018

Lab Sample ID: 240-175006-9

Date Collected: 10/18/22 08:25

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548026	AJ	EET CAN	10/20/22 14:44
Total/NA	Analysis	8082A		100	548350	LSH	EET CAN	10/24/22 09:58

Client Sample ID: CM-CS-B3-629-628-221018

Lab Sample ID: 240-175006-10

Date Collected: 10/18/22 07:44

Matrix: Solid

Date Received: 10/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547993	BLW	EET CAN	10/20/22 15:20

Client Sample ID: CM-CS-B3-629-628-221018

Lab Sample ID: 240-175006-10

Date Collected: 10/18/22 07:44

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548026	AJ	EET CAN	10/20/22 14:44
Total/NA	Analysis	8082A		10	548164	LSH	EET CAN	10/22/22 01:49

Client Sample ID: CM-CS-B3-628-627-221018

Lab Sample ID: 240-175006-11

Date Collected: 10/18/22 07:44

Matrix: Solid

Date Received: 10/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547993	BLW	EET CAN	10/20/22 15:20

Client Sample ID: CM-CS-B3-628-627-221018

Lab Sample ID: 240-175006-11

Date Collected: 10/18/22 07:44

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548026	AJ	EET CAN	10/20/22 14:44
Total/NA	Analysis	8082A		20	548350	LSH	EET CAN	10/24/22 10:15

Client Sample ID: CM-CS-DUP01-221018

Lab Sample ID: 240-175006-12

Date Collected: 10/18/22 07:44

Matrix: Solid

Date Received: 10/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	547993	BLW	EET CAN	10/20/22 15:20

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Client Sample ID: CM-CS-DUP01-221018

Lab Sample ID: 240-175006-12

Date Collected: 10/18/22 07:44

Matrix: Solid

Date Received: 10/20/22 10:00

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548026	AJ	EET CAN	10/20/22 14:44
Total/NA	Analysis	8082A		20	548350	LSH	EET CAN	10/24/22 10:31

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175006-1

Laboratory: Eurofins Canton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200004	07-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3546	Solid	Aroclor-1262
8082A	3546	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Minnesota	NELAP	039-999-348	12-31-22
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins
Environment Testing
America

Client Information		Sampler: Alexia Scholl		Lab PM: Knapp, Jim D	Carrier Tracking No(s):		COC No: 240-99594-36245.2					
Client Contact: Rachel Houle		Phone:		E-Mail: Jim.Knapp@et.eurofins.com	State of Origin:		Page: 2 of 6					
Company: Tetra Tech EM Inc.		PWSID:		Job #:								
Address: 1 South Wacker Drive 37 Floor Ste. 3700		Due Date Requested:		Analysis Requested								
City: Chicago	TAT Requested (days): 2-3 Days											
State: IL	Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
Phone: 312-201-7721(Tel)	PO #: 1168715/ETA-76											
Email: rachel.houle@tetratech.com	WO #: 24029930											
Project Name: Chudnow Metals	SSOW#: 											
Site: 												
Sample Identification			Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste, B=issue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCRB	RCRA metal	Total Number of Containers	Special Instructions/Note:
CM-CS-H1-6230-629-221014			10/14/22	1035	C	Solid			X			
CM-CS-A2-629-628-221018			10/18/22	0815		Solid			X			
CM-CS-A2-628-627-221018				0815		Solid			X			
CM-CS-A3-629-628-221018				0806		Solid			X			
CM-CS-A3-628-627-221018				0806		Solid			X			
CM-CS-A4-629-628-221018				0755		Solid			X			
CM-CS-A4-628-627-221018				0755		Solid			X			
CM-CS-B2-629-628-221018				0825		Solid			X			
CM-CS-B2-628-627-221018				0825		Solid			X			
CM-CS-B3-629-628-221018				0744		Solid			X			
CM-CS-B3-628-627-221018				0744		Solid			X			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)												
Special Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months												
Special Instructions/QC Requirements:												
Empty Kit Relinquished by:												
Relinquished by: <i>Alexia Scholl</i> Date/Time: 10/18/22 1430 Company: <i>Memothy Blue</i> Date/Time: 10-20-22 10:00 Company: <i>CSH</i>												
Relinquished by: Date/Time: Company:												
Relinquished by: Date/Time: Company:												
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:												

Eurofins - Canton Sample Receipt Form/Narrative Login # : _____
Barberton Facility

Client Tetra Tech Site Name _____ Cooler unpacked by: Mandaly
Cooler Received on 10-20-22 Opened on 10-20-22
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 24115 Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None _____

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
IR GUN# IR-13 (CF +0.7 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 3.3 °C
IR GUN #IR-15 (CF 0.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
- Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
- Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
- Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N) and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No

If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC286797
14. Were VOAs on the COC? Yes No NA
15. Were air bubbles >6 mm in any VOA vials? Yes ☒ Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page Samples processed by: _____

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____
VOA Sample Preservation - Date/Time VOAs Frozen: _____

ANALYTICAL REPORT

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-175050-1
Client Project/Site: Chudnow Metals

For:

Tetra Tech EM Inc.
1 South Wacker Drive 37 Floor
Ste. 3700
Chicago, Illinois 60606

Attn: Rachel Houle



Authorized for release by:
10/24/2022 5:16:41 PM

Jim Knapp, Project Manager II
(630)758-0262
Jim.Knapp@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Job ID: 240-175050-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-175050-1

Receipt

The samples were received on 10/20/2022 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

PCBs

Method 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: CM-CS-DUP02-221019 (240-175050-21), (240-175050-B-21-B MS) and (240-175050-B-21-C MSD). 5946364, 5501972, 5771393

Method 8082A: The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: CM-CS-DUP02-221019 (240-175050-21). The samples have been quantified and reported using the best overall Aroclor/standard pattern match relative to the reference standards.

Method 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: CM-CS-A1-629-628-221018 (240-175050-1), CM-CS-A1-628-627-221018 (240-175050-2), CM-CS-B1-629-628-221018 (240-175050-3), CM-CS-B1-628-627-221018 (240-175050-4), CM-CS-A3-628-627-221018 (240-175050-5), CM-CS-C2-629-628-221019 (240-175050-6), CM-CS-C2-628-627-221019 (240-175050-7), CM-CS-D2-629-628-221019 (240-175050-8), CM-CS-D2-628-627-221019 (240-175050-9), CM-CS-E2-629-628-221019 (240-175050-10), CM-CS-E2-628-627-221019 (240-175050-11), CM-CS-DUP01-221019 (240-175050-12), CM-CS-C1-629-628-221019 (240-175050-13), CM-CS-C1-628-627-221019 (240-175050-14), CM-CS-D1-629-628-221019 (240-175050-15), CM-CS-D1-628-627-221019 (240-175050-16), CM-CS-E1-629-628-221019 (240-175050-17), CM-CS-E1-629-628-221019 (240-175050-17[MS]), CM-CS-E1-629-628-221019 (240-175050-17[MSD]), CM-CS-E1-628-627-221019 (240-175050-18), CM-CS-F1-629-628-221019 (240-175050-19) and CM-CS-F1-628-627-221019 (240-175050-20). 594636455019695826019

Method 8082A: The following samples appears to contain polychlorinated biphenyls (PCBs); however, due to contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: CM-CS-A1-629-628-221018 (240-175050-1), CM-CS-A1-628-627-221018 (240-175050-2), CM-CS-B1-629-628-221018 (240-175050-3), CM-CS-B1-628-627-221018 (240-175050-4), CM-CS-A3-628-627-221018 (240-175050-5), CM-CS-C2-629-628-221019 (240-175050-6), CM-CS-C2-628-627-221019 (240-175050-7), CM-CS-D2-629-628-221019 (240-175050-8), CM-CS-D2-628-627-221019 (240-175050-9), CM-CS-E2-629-628-221019 (240-175050-10), CM-CS-E2-628-627-221019 (240-175050-11), CM-CS-DUP01-221019 (240-175050-12), CM-CS-C1-629-628-221019 (240-175050-13), CM-CS-C1-628-627-221019 (240-175050-14), CM-CS-D1-629-628-221019 (240-175050-15), CM-CS-D1-628-627-221019 (240-175050-16), CM-CS-E1-629-628-221019 (240-175050-17), CM-CS-E1-628-627-221019 (240-175050-18) and CM-CS-F1-629-628-221019 (240-175050-19). The samples have been quantified and reported using the best overall Aroclor/standard pattern match relative to the reference standards.

Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: CM-CS-A1-629-628-221018 (240-175050-1), CM-CS-A1-628-627-221018 (240-175050-2), CM-CS-B1-629-628-221018 (240-175050-3), CM-CS-B1-628-627-221018 (240-175050-4), CM-CS-A3-628-627-221018 (240-175050-5), CM-CS-C2-629-628-221019 (240-175050-6), CM-CS-C2-628-627-221019 (240-175050-7), CM-CS-D2-629-628-221019 (240-175050-8), CM-CS-D2-628-627-221019 (240-175050-9), CM-CS-E2-629-628-221019 (240-175050-10), CM-CS-E2-628-627-221019 (240-175050-11), CM-CS-DUP01-221019 (240-175050-12), CM-CS-C1-629-628-221019 (240-175050-13), CM-CS-C1-628-627-221019 (240-175050-14), CM-CS-D1-629-628-221019 (240-175050-15), CM-CS-D1-628-627-221019 (240-175050-16), CM-CS-E1-629-628-221019 (240-175050-17), CM-CS-E1-629-628-221019 (240-175050-17[MS]), CM-CS-E1-629-628-221019 (240-175050-17[MSD]), CM-CS-E1-628-627-221019 (240-175050-18), CM-CS-F1-629-628-221019 (240-175050-19) and CM-CS-F1-628-627-221019 (240-175050-20). Elevated reporting limits (RLs) are provided.

Method 8082A: The following samples required a dilution due to target analytes: CM-CS-DUP01-221019 (240-175050-12) and CM-CS-D1-629-628-221019 (240-175050-15). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Case Narrative

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Job ID: 240-175050-1 (Continued)

Laboratory: Eurofins Canton (Continued)

Method 8082A: The laboratory spikes Matrix Spike and Matrix Spike Duplicate (MS / MSD) samples with AR1016 and AR1260. The percent recoveries for the MS and MSD are calculated using only the AR1016 and AR1260 calibrations. Due to the presence of AR1242 and AR1254 in the sample, the percent recovery for AR1016 and AR1260 spike may be biased high.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAN
Moisture	Percent Moisture	EPA	EET CAN
3546	Microwave Extraction	SW846	EET CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-175050-1	CM-CS-A1-629-628-221018	Solid	10/18/22 15:19	10/20/22 15:05
240-175050-2	CM-CS-A1-628-627-221018	Solid	10/18/22 15:19	10/20/22 15:05
240-175050-3	CM-CS-B1-629-628-221018	Solid	10/18/22 15:25	10/20/22 15:05
240-175050-4	CM-CS-B1-628-627-221018	Solid	10/18/22 15:25	10/20/22 15:05
240-175050-5	CM-CS-A3-628-627-221018	Solid	10/18/22 08:06	10/20/22 15:05
240-175050-6	CM-CS-C2-629-628-221019	Solid	10/19/22 08:51	10/20/22 15:05
240-175050-7	CM-CS-C2-628-627-221019	Solid	10/19/22 08:51	10/20/22 15:05
240-175050-8	CM-CS-D2-629-628-221019	Solid	10/19/22 08:35	10/20/22 15:05
240-175050-9	CM-CS-D2-628-627-221019	Solid	10/19/22 08:35	10/20/22 15:05
240-175050-10	CM-CS-E2-629-628-221019	Solid	10/19/22 08:21	10/20/22 15:05
240-175050-11	CM-CS-E2-628-627-221019	Solid	10/19/22 08:21	10/20/22 15:05
240-175050-12	CM-CS-DUP01-221019	Solid	10/19/22 08:21	10/20/22 15:05
240-175050-13	CM-CS-C1-629-628-221019	Solid	10/19/22 14:36	10/20/22 15:05
240-175050-14	CM-CS-C1-628-627-221019	Solid	10/19/22 14:36	10/20/22 15:05
240-175050-15	CM-CS-D1-629-628-221019	Solid	10/19/22 14:49	10/20/22 15:05
240-175050-16	CM-CS-D1-628-627-221019	Solid	10/19/22 14:49	10/20/22 15:05
240-175050-17	CM-CS-E1-629-628-221019	Solid	10/19/22 15:14	10/20/22 15:05
240-175050-18	CM-CS-E1-628-627-221019	Solid	10/19/22 15:14	10/20/22 15:05
240-175050-19	CM-CS-F1-629-628-221019	Solid	10/19/22 15:03	10/20/22 15:05
240-175050-20	CM-CS-F1-628-627-221019	Solid	10/19/22 15:03	10/20/22 15:05
240-175050-21	CM-CS-DUP02-221019	Solid	10/19/22 10:53	10/20/22 15:05

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-A1-629-628-221018

Lab Sample ID: 240-175050-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	820		560	210	ug/Kg	10	✱	8082A	Total/NA
Aroclor-1254	11000		560	240	ug/Kg	10	✱	8082A	Total/NA

Client Sample ID: CM-CS-A1-628-627-221018

Lab Sample ID: 240-175050-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	720		610	230	ug/Kg	10	✱	8082A	Total/NA
Aroclor-1254	8300		610	260	ug/Kg	10	✱	8082A	Total/NA

Client Sample ID: CM-CS-B1-629-628-221018

Lab Sample ID: 240-175050-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	950		580	220	ug/Kg	10	✱	8082A	Total/NA
Aroclor-1254	7000		580	240	ug/Kg	10	✱	8082A	Total/NA

Client Sample ID: CM-CS-B1-628-627-221018

Lab Sample ID: 240-175050-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	2800		580	220	ug/Kg	10	✱	8082A	Total/NA
Aroclor-1254	5500		580	240	ug/Kg	10	✱	8082A	Total/NA

Client Sample ID: CM-CS-A3-628-627-221018

Lab Sample ID: 240-175050-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	2000		580	220	ug/Kg	10	✱	8082A	Total/NA
Aroclor-1254	5600		580	250	ug/Kg	10	✱	8082A	Total/NA

Client Sample ID: CM-CS-C2-629-628-221019

Lab Sample ID: 240-175050-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	4500		600	230	ug/Kg	10	✱	8082A	Total/NA
Aroclor-1254	9400		600	250	ug/Kg	10	✱	8082A	Total/NA

Client Sample ID: CM-CS-C2-628-627-221019

Lab Sample ID: 240-175050-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	4700		1300	510	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	13000		1300	570	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-D2-629-628-221019

Lab Sample ID: 240-175050-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	11000		1200	470	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	18000		1200	520	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-D2-628-627-221019

Lab Sample ID: 240-175050-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	7700		1200	470	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	12000		1200	520	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-E2-629-628-221019

Lab Sample ID: 240-175050-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	5800		1100	430	ug/Kg	20	✱	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-E2-629-628-221019 (Continued)

Lab Sample ID: 240-175050-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	9300		1100	480	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-E2-628-627-221019

Lab Sample ID: 240-175050-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	980		340	130	ug/Kg	5	✱	8082A	Total/NA
Aroclor-1254	1600		340	140	ug/Kg	5	✱	8082A	Total/NA

Client Sample ID: CM-CS-DUP01-221019

Lab Sample ID: 240-175050-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	5800		1200	460	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	9800		1200	510	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1268	24000		1200	390	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-C1-629-628-221019

Lab Sample ID: 240-175050-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	3100		540	200	ug/Kg	10	✱	8082A	Total/NA
Aroclor-1254	6500		540	230	ug/Kg	10	✱	8082A	Total/NA

Client Sample ID: CM-CS-C1-628-627-221019

Lab Sample ID: 240-175050-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	390		310	120	ug/Kg	5	✱	8082A	Total/NA
Aroclor-1254	2400		310	130	ug/Kg	5	✱	8082A	Total/NA

Client Sample ID: CM-CS-D1-629-628-221019

Lab Sample ID: 240-175050-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	3500		3000	1100	ug/Kg	50	✱	8082A	Total/NA
Aroclor-1254	29000		3000	1200	ug/Kg	50	✱	8082A	Total/NA

Client Sample ID: CM-CS-D1-628-627-221019

Lab Sample ID: 240-175050-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	700		580	220	ug/Kg	10	✱	8082A	Total/NA
Aroclor-1254	4900		580	240	ug/Kg	10	✱	8082A	Total/NA

Client Sample ID: CM-CS-E1-629-628-221019

Lab Sample ID: 240-175050-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	1000	J	1200	460	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	5800		1200	500	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-E1-628-627-221019

Lab Sample ID: 240-175050-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	470		310	120	ug/Kg	5	✱	8082A	Total/NA
Aroclor-1254	1200		310	130	ug/Kg	5	✱	8082A	Total/NA

Client Sample ID: CM-CS-F1-629-628-221019

Lab Sample ID: 240-175050-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	1400		570	220	ug/Kg	10	✱	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-F1-629-628-221019 (Continued)

Lab Sample ID: 240-175050-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	3200		570	240	ug/Kg	10	✱	8082A	Total/NA

Client Sample ID: CM-CS-F1-628-627-221019

Lab Sample ID: 240-175050-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	430		270	110	ug/Kg	5	✱	8082A	Total/NA

Client Sample ID: CM-CS-DUP02-221019

Lab Sample ID: 240-175050-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	600		60	20	ug/Kg	1	✱	8082A	Total/NA
Aroclor-1260	690		60	25	ug/Kg	1	✱	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-A1-629-628-221018

Lab Sample ID: 240-175050-1

Date Collected: 10/18/22 15:19

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 85.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<560		560	280	ug/Kg	✱	10/21/22 06:58	10/21/22 18:37	10
Aroclor-1221	<560		560	340	ug/Kg	✱	10/21/22 06:58	10/21/22 18:37	10
Aroclor-1232	<560		560	240	ug/Kg	✱	10/21/22 06:58	10/21/22 18:37	10
Aroclor-1242	820		560	210	ug/Kg	✱	10/21/22 06:58	10/21/22 18:37	10
Aroclor-1248	<560		560	190	ug/Kg	✱	10/21/22 06:58	10/21/22 18:37	10
Aroclor-1254	11000		560	240	ug/Kg	✱	10/21/22 06:58	10/21/22 18:37	10
Aroclor-1260	<560		560	240	ug/Kg	✱	10/21/22 06:58	10/21/22 18:37	10
Aroclor-1262	<560		560	250	ug/Kg	✱	10/21/22 06:58	10/21/22 18:37	10
Aroclor-1268	<560		560	180	ug/Kg	✱	10/21/22 06:58	10/21/22 18:37	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	52		10 - 149	10/21/22 06:58	10/21/22 18:37	10
DCB Decachlorobiphenyl	105		10 - 174	10/21/22 06:58	10/21/22 18:37	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	85.2		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	14.8		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-A1-628-627-221018

Lab Sample ID: 240-175050-2

Date Collected: 10/18/22 15:19

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 80.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<610		610	310	ug/Kg	✱	10/21/22 06:58	10/21/22 18:53	10
Aroclor-1221	<610		610	370	ug/Kg	✱	10/21/22 06:58	10/21/22 18:53	10
Aroclor-1232	<610		610	260	ug/Kg	✱	10/21/22 06:58	10/21/22 18:53	10
Aroclor-1242	720		610	230	ug/Kg	✱	10/21/22 06:58	10/21/22 18:53	10
Aroclor-1248	<610		610	210	ug/Kg	✱	10/21/22 06:58	10/21/22 18:53	10
Aroclor-1254	8300		610	260	ug/Kg	✱	10/21/22 06:58	10/21/22 18:53	10
Aroclor-1260	<610		610	260	ug/Kg	✱	10/21/22 06:58	10/21/22 18:53	10
Aroclor-1262	<610		610	270	ug/Kg	✱	10/21/22 06:58	10/21/22 18:53	10
Aroclor-1268	<610		610	200	ug/Kg	✱	10/21/22 06:58	10/21/22 18:53	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	44		10 - 149	10/21/22 06:58	10/21/22 18:53	10
DCB Decachlorobiphenyl	57		10 - 174	10/21/22 06:58	10/21/22 18:53	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	80.2		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	19.8		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-B1-629-628-221018

Lab Sample ID: 240-175050-3

Date Collected: 10/18/22 15:25

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 88.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<580		580	290	ug/Kg	✱	10/21/22 06:58	10/21/22 19:09	10
Aroclor-1221	<580		580	350	ug/Kg	✱	10/21/22 06:58	10/21/22 19:09	10
Aroclor-1232	<580		580	240	ug/Kg	✱	10/21/22 06:58	10/21/22 19:09	10
Aroclor-1242	950		580	220	ug/Kg	✱	10/21/22 06:58	10/21/22 19:09	10
Aroclor-1248	<580		580	200	ug/Kg	✱	10/21/22 06:58	10/21/22 19:09	10
Aroclor-1254	7000		580	240	ug/Kg	✱	10/21/22 06:58	10/21/22 19:09	10
Aroclor-1260	<580		580	240	ug/Kg	✱	10/21/22 06:58	10/21/22 19:09	10
Aroclor-1262	<580		580	260	ug/Kg	✱	10/21/22 06:58	10/21/22 19:09	10
Aroclor-1268	<580		580	190	ug/Kg	✱	10/21/22 06:58	10/21/22 19:09	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60		10 - 149	10/21/22 06:58	10/21/22 19:09	10
DCB Decachlorobiphenyl	88		10 - 174	10/21/22 06:58	10/21/22 19:09	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	88.8		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	11.2		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-B1-628-627-221018

Lab Sample ID: 240-175050-4

Date Collected: 10/18/22 15:25

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 86.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<580		580	290	ug/Kg	✱	10/21/22 06:58	10/21/22 19:25	10
Aroclor-1221	<580		580	350	ug/Kg	✱	10/21/22 06:58	10/21/22 19:25	10
Aroclor-1232	<580		580	240	ug/Kg	✱	10/21/22 06:58	10/21/22 19:25	10
Aroclor-1242	2800		580	220	ug/Kg	✱	10/21/22 06:58	10/21/22 19:25	10
Aroclor-1248	<580		580	200	ug/Kg	✱	10/21/22 06:58	10/21/22 19:25	10
Aroclor-1254	5500		580	240	ug/Kg	✱	10/21/22 06:58	10/21/22 19:25	10
Aroclor-1260	<580		580	240	ug/Kg	✱	10/21/22 06:58	10/21/22 19:25	10
Aroclor-1262	<580		580	260	ug/Kg	✱	10/21/22 06:58	10/21/22 19:25	10
Aroclor-1268	<580		580	190	ug/Kg	✱	10/21/22 06:58	10/21/22 19:25	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	35		10 - 149	10/21/22 06:58	10/21/22 19:25	10
DCB Decachlorobiphenyl	58		10 - 174	10/21/22 06:58	10/21/22 19:25	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	86.6		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	13.4		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-A3-628-627-221018

Lab Sample ID: 240-175050-5

Date Collected: 10/18/22 08:06

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 82.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<580		580	290	ug/Kg	✱	10/21/22 06:58	10/21/22 19:41	10
Aroclor-1221	<580		580	350	ug/Kg	✱	10/21/22 06:58	10/21/22 19:41	10
Aroclor-1232	<580		580	250	ug/Kg	✱	10/21/22 06:58	10/21/22 19:41	10
Aroclor-1242	2000		580	220	ug/Kg	✱	10/21/22 06:58	10/21/22 19:41	10
Aroclor-1248	<580		580	200	ug/Kg	✱	10/21/22 06:58	10/21/22 19:41	10
Aroclor-1254	5600		580	250	ug/Kg	✱	10/21/22 06:58	10/21/22 19:41	10
Aroclor-1260	<580		580	250	ug/Kg	✱	10/21/22 06:58	10/21/22 19:41	10
Aroclor-1262	<580		580	260	ug/Kg	✱	10/21/22 06:58	10/21/22 19:41	10
Aroclor-1268	<580		580	190	ug/Kg	✱	10/21/22 06:58	10/21/22 19:41	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	56		10 - 149	10/21/22 06:58	10/21/22 19:41	10
DCB Decachlorobiphenyl	77		10 - 174	10/21/22 06:58	10/21/22 19:41	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	82.6		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	17.4		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-C2-629-628-221019

Lab Sample ID: 240-175050-6

Date Collected: 10/19/22 08:51

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 83.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<600		600	300	ug/Kg	✱	10/21/22 06:58	10/21/22 19:57	10
Aroclor-1221	<600		600	360	ug/Kg	✱	10/21/22 06:58	10/21/22 19:57	10
Aroclor-1232	<600		600	250	ug/Kg	✱	10/21/22 06:58	10/21/22 19:57	10
Aroclor-1242	4500		600	230	ug/Kg	✱	10/21/22 06:58	10/21/22 19:57	10
Aroclor-1248	<600		600	200	ug/Kg	✱	10/21/22 06:58	10/21/22 19:57	10
Aroclor-1254	9400		600	250	ug/Kg	✱	10/21/22 06:58	10/21/22 19:57	10
Aroclor-1260	<600		600	250	ug/Kg	✱	10/21/22 06:58	10/21/22 19:57	10
Aroclor-1262	<600		600	260	ug/Kg	✱	10/21/22 06:58	10/21/22 19:57	10
Aroclor-1268	<600		600	190	ug/Kg	✱	10/21/22 06:58	10/21/22 19:57	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	51		10 - 149	10/21/22 06:58	10/21/22 19:57	10
DCB Decachlorobiphenyl	69		10 - 174	10/21/22 06:58	10/21/22 19:57	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	83.5		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	16.5		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-C2-628-627-221019

Lab Sample ID: 240-175050-7

Date Collected: 10/19/22 08:51

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 76.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1300		1300	670	ug/Kg	✱	10/21/22 06:58	10/21/22 20:13	20
Aroclor-1221	<1300		1300	810	ug/Kg	✱	10/21/22 06:58	10/21/22 20:13	20
Aroclor-1232	<1300		1300	570	ug/Kg	✱	10/21/22 06:58	10/21/22 20:13	20
Aroclor-1242	4700		1300	510	ug/Kg	✱	10/21/22 06:58	10/21/22 20:13	20
Aroclor-1248	<1300		1300	460	ug/Kg	✱	10/21/22 06:58	10/21/22 20:13	20
Aroclor-1254	13000		1300	570	ug/Kg	✱	10/21/22 06:58	10/21/22 20:13	20
Aroclor-1260	<1300		1300	570	ug/Kg	✱	10/21/22 06:58	10/21/22 20:13	20
Aroclor-1262	<1300		1300	590	ug/Kg	✱	10/21/22 06:58	10/21/22 20:13	20
Aroclor-1268	<1300		1300	430	ug/Kg	✱	10/21/22 06:58	10/21/22 20:13	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	48		10 - 149	10/21/22 06:58	10/21/22 20:13	20
DCB Decachlorobiphenyl	88		10 - 174	10/21/22 06:58	10/21/22 20:13	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	76.1		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	23.9		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-D2-629-628-221019

Lab Sample ID: 240-175050-8

Date Collected: 10/19/22 08:35

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 84.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200		1200	620	ug/Kg	✱	10/21/22 06:58	10/21/22 20:28	20
Aroclor-1221	<1200		1200	750	ug/Kg	✱	10/21/22 06:58	10/21/22 20:28	20
Aroclor-1232	<1200		1200	520	ug/Kg	✱	10/21/22 06:58	10/21/22 20:28	20
Aroclor-1242	11000		1200	470	ug/Kg	✱	10/21/22 06:58	10/21/22 20:28	20
Aroclor-1248	<1200		1200	420	ug/Kg	✱	10/21/22 06:58	10/21/22 20:28	20
Aroclor-1254	18000		1200	520	ug/Kg	✱	10/21/22 06:58	10/21/22 20:28	20
Aroclor-1260	<1200		1200	520	ug/Kg	✱	10/21/22 06:58	10/21/22 20:28	20
Aroclor-1262	<1200		1200	550	ug/Kg	✱	10/21/22 06:58	10/21/22 20:28	20
Aroclor-1268	<1200		1200	400	ug/Kg	✱	10/21/22 06:58	10/21/22 20:28	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		10 - 149	10/21/22 06:58	10/21/22 20:28	20
DCB Decachlorobiphenyl	94		10 - 174	10/21/22 06:58	10/21/22 20:28	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	84.0		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	16.0		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-D2-628-627-221019

Lab Sample ID: 240-175050-9

Date Collected: 10/19/22 08:35

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 83.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200		1200	620	ug/Kg	✱	10/21/22 06:58	10/21/22 20:44	20
Aroclor-1221	<1200		1200	740	ug/Kg	✱	10/21/22 06:58	10/21/22 20:44	20
Aroclor-1232	<1200		1200	520	ug/Kg	✱	10/21/22 06:58	10/21/22 20:44	20
Aroclor-1242	7700		1200	470	ug/Kg	✱	10/21/22 06:58	10/21/22 20:44	20
Aroclor-1248	<1200		1200	420	ug/Kg	✱	10/21/22 06:58	10/21/22 20:44	20
Aroclor-1254	12000		1200	520	ug/Kg	✱	10/21/22 06:58	10/21/22 20:44	20
Aroclor-1260	<1200		1200	520	ug/Kg	✱	10/21/22 06:58	10/21/22 20:44	20
Aroclor-1262	<1200		1200	540	ug/Kg	✱	10/21/22 06:58	10/21/22 20:44	20
Aroclor-1268	<1200		1200	390	ug/Kg	✱	10/21/22 06:58	10/21/22 20:44	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		10 - 149	10/21/22 06:58	10/21/22 20:44	20
DCB Decachlorobiphenyl	127		10 - 174	10/21/22 06:58	10/21/22 20:44	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	83.1		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	16.9		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-E2-629-628-221019

Lab Sample ID: 240-175050-10

Date Collected: 10/19/22 08:21

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 85.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1100		1100	570	ug/Kg	✱	10/21/22 06:58	10/21/22 21:00	20
Aroclor-1221	<1100		1100	680	ug/Kg	✱	10/21/22 06:58	10/21/22 21:00	20
Aroclor-1232	<1100		1100	480	ug/Kg	✱	10/21/22 06:58	10/21/22 21:00	20
Aroclor-1242	5800		1100	430	ug/Kg	✱	10/21/22 06:58	10/21/22 21:00	20
Aroclor-1248	<1100		1100	390	ug/Kg	✱	10/21/22 06:58	10/21/22 21:00	20
Aroclor-1254	9300		1100	480	ug/Kg	✱	10/21/22 06:58	10/21/22 21:00	20
Aroclor-1260	<1100		1100	480	ug/Kg	✱	10/21/22 06:58	10/21/22 21:00	20
Aroclor-1262	<1100		1100	500	ug/Kg	✱	10/21/22 06:58	10/21/22 21:00	20
Aroclor-1268	<1100		1100	360	ug/Kg	✱	10/21/22 06:58	10/21/22 21:00	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	34		10 - 149	10/21/22 06:58	10/21/22 21:00	20
DCB Decachlorobiphenyl	116		10 - 174	10/21/22 06:58	10/21/22 21:00	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	85.5		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	14.5		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-E2-628-627-221019

Lab Sample ID: 240-175050-11

Date Collected: 10/19/22 08:21

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 70.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<340		340	170	ug/Kg	✱	10/21/22 06:58	10/21/22 21:16	5
Aroclor-1221	<340		340	200	ug/Kg	✱	10/21/22 06:58	10/21/22 21:16	5
Aroclor-1232	<340		340	140	ug/Kg	✱	10/21/22 06:58	10/21/22 21:16	5
Aroclor-1242	980		340	130	ug/Kg	✱	10/21/22 06:58	10/21/22 21:16	5
Aroclor-1248	<340		340	110	ug/Kg	✱	10/21/22 06:58	10/21/22 21:16	5
Aroclor-1254	1600		340	140	ug/Kg	✱	10/21/22 06:58	10/21/22 21:16	5
Aroclor-1260	<340		340	140	ug/Kg	✱	10/21/22 06:58	10/21/22 21:16	5
Aroclor-1262	<340		340	150	ug/Kg	✱	10/21/22 06:58	10/21/22 21:16	5
Aroclor-1268	<340		340	110	ug/Kg	✱	10/21/22 06:58	10/21/22 21:16	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		10 - 149	10/21/22 06:58	10/21/22 21:16	5
DCB Decachlorobiphenyl	91		10 - 174	10/21/22 06:58	10/21/22 21:16	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	70.6		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	29.4		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-DUP01-221019

Lab Sample ID: 240-175050-12

Date Collected: 10/19/22 08:21

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 84.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200		1200	610	ug/Kg	✱	10/21/22 06:58	10/21/22 21:32	20
Aroclor-1221	<1200		1200	730	ug/Kg	✱	10/21/22 06:58	10/21/22 21:32	20
Aroclor-1232	<1200		1200	510	ug/Kg	✱	10/21/22 06:58	10/21/22 21:32	20
Aroclor-1242	5800		1200	460	ug/Kg	✱	10/21/22 06:58	10/21/22 21:32	20
Aroclor-1248	<1200		1200	410	ug/Kg	✱	10/21/22 06:58	10/21/22 21:32	20
Aroclor-1254	9800		1200	510	ug/Kg	✱	10/21/22 06:58	10/21/22 21:32	20
Aroclor-1260	<1200		1200	510	ug/Kg	✱	10/21/22 06:58	10/21/22 21:32	20
Aroclor-1262	<1200		1200	540	ug/Kg	✱	10/21/22 06:58	10/21/22 21:32	20
Aroclor-1268	24000		1200	390	ug/Kg	✱	10/21/22 06:58	10/21/22 21:32	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	35		10 - 149	10/21/22 06:58	10/21/22 21:32	20
DCB Decachlorobiphenyl	3364	S1+	10 - 174	10/21/22 06:58	10/21/22 21:32	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	84.9		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	15.1		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-C1-629-628-221019

Lab Sample ID: 240-175050-13

Date Collected: 10/19/22 14:36

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 92.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<540		540	270	ug/Kg	✱	10/21/22 06:58	10/21/22 21:48	10
Aroclor-1221	<540		540	320	ug/Kg	✱	10/21/22 06:58	10/21/22 21:48	10
Aroclor-1232	<540		540	230	ug/Kg	✱	10/21/22 06:58	10/21/22 21:48	10
Aroclor-1242	3100		540	200	ug/Kg	✱	10/21/22 06:58	10/21/22 21:48	10
Aroclor-1248	<540		540	180	ug/Kg	✱	10/21/22 06:58	10/21/22 21:48	10
Aroclor-1254	6500		540	230	ug/Kg	✱	10/21/22 06:58	10/21/22 21:48	10
Aroclor-1260	<540		540	230	ug/Kg	✱	10/21/22 06:58	10/21/22 21:48	10
Aroclor-1262	<540		540	240	ug/Kg	✱	10/21/22 06:58	10/21/22 21:48	10
Aroclor-1268	<540		540	170	ug/Kg	✱	10/21/22 06:58	10/21/22 21:48	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		10 - 149	10/21/22 06:58	10/21/22 21:48	10
DCB Decachlorobiphenyl	66		10 - 174	10/21/22 06:58	10/21/22 21:48	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	92.8		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	7.2		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-C1-628-627-221019

Lab Sample ID: 240-175050-14

Date Collected: 10/19/22 14:36

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 83.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<310		310	160	ug/Kg	✱	10/21/22 06:58	10/21/22 22:03	5
Aroclor-1221	<310		310	190	ug/Kg	✱	10/21/22 06:58	10/21/22 22:03	5
Aroclor-1232	<310		310	130	ug/Kg	✱	10/21/22 06:58	10/21/22 22:03	5
Aroclor-1242	390		310	120	ug/Kg	✱	10/21/22 06:58	10/21/22 22:03	5
Aroclor-1248	<310		310	110	ug/Kg	✱	10/21/22 06:58	10/21/22 22:03	5
Aroclor-1254	2400		310	130	ug/Kg	✱	10/21/22 06:58	10/21/22 22:03	5
Aroclor-1260	<310		310	130	ug/Kg	✱	10/21/22 06:58	10/21/22 22:03	5
Aroclor-1262	<310		310	140	ug/Kg	✱	10/21/22 06:58	10/21/22 22:03	5
Aroclor-1268	<310		310	100	ug/Kg	✱	10/21/22 06:58	10/21/22 22:03	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	48		10 - 149	10/21/22 06:58	10/21/22 22:03	5
DCB Decachlorobiphenyl	55		10 - 174	10/21/22 06:58	10/21/22 22:03	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	83.9		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	16.1		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-D1-629-628-221019

Lab Sample ID: 240-175050-15

Date Collected: 10/19/22 14:49

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 82.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<3000		3000	1500	ug/Kg	✱	10/21/22 06:58	10/21/22 22:19	50
Aroclor-1221	<3000		3000	1800	ug/Kg	✱	10/21/22 06:58	10/21/22 22:19	50
Aroclor-1232	<3000		3000	1200	ug/Kg	✱	10/21/22 06:58	10/21/22 22:19	50
Aroclor-1242	3500		3000	1100	ug/Kg	✱	10/21/22 06:58	10/21/22 22:19	50
Aroclor-1248	<3000		3000	1000	ug/Kg	✱	10/21/22 06:58	10/21/22 22:19	50
Aroclor-1254	29000		3000	1200	ug/Kg	✱	10/21/22 06:58	10/21/22 22:19	50
Aroclor-1260	<3000		3000	1200	ug/Kg	✱	10/21/22 06:58	10/21/22 22:19	50
Aroclor-1262	<3000		3000	1300	ug/Kg	✱	10/21/22 06:58	10/21/22 22:19	50
Aroclor-1268	<3000		3000	950	ug/Kg	✱	10/21/22 06:58	10/21/22 22:19	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	S1-	10 - 149	10/21/22 06:58	10/21/22 22:19	50
DCB Decachlorobiphenyl	0	S1-	10 - 174	10/21/22 06:58	10/21/22 22:19	50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	82.0		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	18.0		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-D1-628-627-221019

Lab Sample ID: 240-175050-16

Date Collected: 10/19/22 14:49

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 87.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<580		580	290	ug/Kg	✱	10/21/22 06:58	10/21/22 22:35	10
Aroclor-1221	<580		580	350	ug/Kg	✱	10/21/22 06:58	10/21/22 22:35	10
Aroclor-1232	<580		580	240	ug/Kg	✱	10/21/22 06:58	10/21/22 22:35	10
Aroclor-1242	700		580	220	ug/Kg	✱	10/21/22 06:58	10/21/22 22:35	10
Aroclor-1248	<580		580	200	ug/Kg	✱	10/21/22 06:58	10/21/22 22:35	10
Aroclor-1254	4900		580	240	ug/Kg	✱	10/21/22 06:58	10/21/22 22:35	10
Aroclor-1260	<580		580	240	ug/Kg	✱	10/21/22 06:58	10/21/22 22:35	10
Aroclor-1262	<580		580	260	ug/Kg	✱	10/21/22 06:58	10/21/22 22:35	10
Aroclor-1268	<580		580	190	ug/Kg	✱	10/21/22 06:58	10/21/22 22:35	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		10 - 149	10/21/22 06:58	10/21/22 22:35	10
DCB Decachlorobiphenyl	89		10 - 174	10/21/22 06:58	10/21/22 22:35	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	87.6		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	12.4		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-E1-629-628-221019

Lab Sample ID: 240-175050-17

Date Collected: 10/19/22 15:14

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 87.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200	F1	1200	600	ug/Kg	✱	10/21/22 06:58	10/21/22 23:38	20
Aroclor-1221	<1200		1200	720	ug/Kg	✱	10/21/22 06:58	10/21/22 23:38	20
Aroclor-1232	<1200		1200	500	ug/Kg	✱	10/21/22 06:58	10/21/22 23:38	20
Aroclor-1242	1000	J	1200	460	ug/Kg	✱	10/21/22 06:58	10/21/22 23:38	20
Aroclor-1248	<1200		1200	410	ug/Kg	✱	10/21/22 06:58	10/21/22 23:38	20
Aroclor-1254	5800		1200	500	ug/Kg	✱	10/21/22 06:58	10/21/22 23:38	20
Aroclor-1260	<1200	F1	1200	500	ug/Kg	✱	10/21/22 06:58	10/21/22 23:38	20
Aroclor-1262	<1200		1200	530	ug/Kg	✱	10/21/22 06:58	10/21/22 23:38	20
Aroclor-1268	<1200		1200	380	ug/Kg	✱	10/21/22 06:58	10/21/22 23:38	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	25		10 - 149	10/21/22 06:58	10/21/22 23:38	20
DCB Decachlorobiphenyl	78		10 - 174	10/21/22 06:58	10/21/22 23:38	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	87.1		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	12.9		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-E1-628-627-221019

Lab Sample ID: 240-175050-18

Date Collected: 10/19/22 15:14

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 82.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<310		310	160	ug/Kg	✱	10/21/22 06:58	10/22/22 00:26	5
Aroclor-1221	<310		310	190	ug/Kg	✱	10/21/22 06:58	10/22/22 00:26	5
Aroclor-1232	<310		310	130	ug/Kg	✱	10/21/22 06:58	10/22/22 00:26	5
Aroclor-1242	470		310	120	ug/Kg	✱	10/21/22 06:58	10/22/22 00:26	5
Aroclor-1248	<310		310	110	ug/Kg	✱	10/21/22 06:58	10/22/22 00:26	5
Aroclor-1254	1200		310	130	ug/Kg	✱	10/21/22 06:58	10/22/22 00:26	5
Aroclor-1260	<310		310	130	ug/Kg	✱	10/21/22 06:58	10/22/22 00:26	5
Aroclor-1262	<310		310	140	ug/Kg	✱	10/21/22 06:58	10/22/22 00:26	5
Aroclor-1268	<310		310	100	ug/Kg	✱	10/21/22 06:58	10/22/22 00:26	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	52		10 - 149	10/21/22 06:58	10/22/22 00:26	5
DCB Decachlorobiphenyl	92		10 - 174	10/21/22 06:58	10/22/22 00:26	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	82.8		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	17.2		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-F1-629-628-221019

Lab Sample ID: 240-175050-19

Date Collected: 10/19/22 15:03

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 87.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<570		570	290	ug/Kg	✱	10/21/22 06:58	10/22/22 00:42	10
Aroclor-1221	<570		570	340	ug/Kg	✱	10/21/22 06:58	10/22/22 00:42	10
Aroclor-1232	<570		570	240	ug/Kg	✱	10/21/22 06:58	10/22/22 00:42	10
Aroclor-1242	1400		570	220	ug/Kg	✱	10/21/22 06:58	10/22/22 00:42	10
Aroclor-1248	<570		570	190	ug/Kg	✱	10/21/22 06:58	10/22/22 00:42	10
Aroclor-1254	3200		570	240	ug/Kg	✱	10/21/22 06:58	10/22/22 00:42	10
Aroclor-1260	<570		570	240	ug/Kg	✱	10/21/22 06:58	10/22/22 00:42	10
Aroclor-1262	<570		570	250	ug/Kg	✱	10/21/22 06:58	10/22/22 00:42	10
Aroclor-1268	<570		570	180	ug/Kg	✱	10/21/22 06:58	10/22/22 00:42	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	58		10 - 149	10/21/22 06:58	10/22/22 00:42	10
DCB Decachlorobiphenyl	103		10 - 174	10/21/22 06:58	10/22/22 00:42	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	87.6		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	12.4		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-F1-628-627-221019

Lab Sample ID: 240-175050-20

Date Collected: 10/19/22 15:03

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 90.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<270		270	130	ug/Kg	✱	10/21/22 06:58	10/22/22 00:58	5
Aroclor-1221	<270		270	160	ug/Kg	✱	10/21/22 06:58	10/22/22 00:58	5
Aroclor-1232	<270		270	110	ug/Kg	✱	10/21/22 06:58	10/22/22 00:58	5
Aroclor-1242	<270		270	100	ug/Kg	✱	10/21/22 06:58	10/22/22 00:58	5
Aroclor-1248	<270		270	91	ug/Kg	✱	10/21/22 06:58	10/22/22 00:58	5
Aroclor-1254	<270		270	110	ug/Kg	✱	10/21/22 06:58	10/22/22 00:58	5
Aroclor-1260	430		270	110	ug/Kg	✱	10/21/22 06:58	10/22/22 00:58	5
Aroclor-1262	<270		270	120	ug/Kg	✱	10/21/22 06:58	10/22/22 00:58	5
Aroclor-1268	<270		270	86	ug/Kg	✱	10/21/22 06:58	10/22/22 00:58	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		10 - 149	10/21/22 06:58	10/22/22 00:58	5
DCB Decachlorobiphenyl	70		10 - 174	10/21/22 06:58	10/22/22 00:58	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	90.6		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	9.4		0.1	0.1	%			10/21/22 13:00	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-DUP02-221019

Lab Sample ID: 240-175050-21

Date Collected: 10/19/22 10:53

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 84.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<60		60	30	ug/Kg	✱	10/21/22 07:35	10/24/22 10:19	1
Aroclor-1221	<60		60	36	ug/Kg	✱	10/21/22 07:35	10/24/22 10:19	1
Aroclor-1232	<60		60	25	ug/Kg	✱	10/21/22 07:35	10/24/22 10:19	1
Aroclor-1242	<60		60	23	ug/Kg	✱	10/21/22 07:35	10/24/22 10:19	1
Aroclor-1248	600		60	20	ug/Kg	✱	10/21/22 07:35	10/24/22 10:19	1
Aroclor-1254	<60		60	25	ug/Kg	✱	10/21/22 07:35	10/24/22 10:19	1
Aroclor-1260	690		60	25	ug/Kg	✱	10/21/22 07:35	10/24/22 10:19	1
Aroclor-1262	<60		60	26	ug/Kg	✱	10/21/22 07:35	10/24/22 10:19	1
Aroclor-1268	<60		60	19	ug/Kg	✱	10/21/22 07:35	10/24/22 10:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		10 - 149	10/21/22 07:35	10/24/22 10:19	1
DCB Decachlorobiphenyl	99		10 - 174	10/21/22 07:35	10/24/22 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	84.9		0.1	0.1	%			10/21/22 13:00	1
Percent Moisture (EPA Moisture)	15.1		0.1	0.1	%			10/21/22 13:00	1

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (10-149)	DCBP2 (10-174)
240-175050-1	CM-CS-A1-629-628-221018	52	105
240-175050-2	CM-CS-A1-628-627-221018	44	57
240-175050-3	CM-CS-B1-629-628-221018	60	88
240-175050-4	CM-CS-B1-628-627-221018	35	58
240-175050-5	CM-CS-A3-628-627-221018	56	77
240-175050-6	CM-CS-C2-629-628-221019	51	69
240-175050-7	CM-CS-C2-628-627-221019	48	88
240-175050-8	CM-CS-D2-629-628-221019	74	94
240-175050-9	CM-CS-D2-628-627-221019	62	127
240-175050-10	CM-CS-E2-629-628-221019	34	116
240-175050-11	CM-CS-E2-628-627-221019	76	91
240-175050-12	CM-CS-DUP01-221019	35	3364 S1+
240-175050-13	CM-CS-C1-629-628-221019	68	66
240-175050-14	CM-CS-C1-628-627-221019	48	55
240-175050-15	CM-CS-D1-629-628-221019	0 S1-	0 S1-
240-175050-16	CM-CS-D1-628-627-221019	76	89
240-175050-17	CM-CS-E1-629-628-221019	25	78
240-175050-17 MS	CM-CS-E1-629-628-221019	13	43
240-175050-17 MSD	CM-CS-E1-629-628-221019	26	79
240-175050-18	CM-CS-E1-628-627-221019	52	92
240-175050-19	CM-CS-F1-629-628-221019	58	103
240-175050-20	CM-CS-F1-628-627-221019	69	70
LCS 240-548096/2-A	Lab Control Sample	80	89
MB 240-548096/1-A	Method Blank	108	107

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (10-149)	DCBP1 (10-174)
240-175050-21	CM-CS-DUP02-221019	77	99
240-175050-21 MS	CM-CS-DUP02-221019	75	93
240-175050-21 MSD	CM-CS-DUP02-221019	72	126
LCS 240-548097/2-A	Lab Control Sample	85	90
MB 240-548097/1-A	Method Blank	71	80

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-548096/1-A

Matrix: Solid

Analysis Batch: 548240

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 548096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<50		50	25	ug/Kg		10/21/22 06:58	10/21/22 18:06	1
Aroclor-1221	<50		50	30	ug/Kg		10/21/22 06:58	10/21/22 18:06	1
Aroclor-1232	<50		50	21	ug/Kg		10/21/22 06:58	10/21/22 18:06	1
Aroclor-1242	<50		50	19	ug/Kg		10/21/22 06:58	10/21/22 18:06	1
Aroclor-1248	<50		50	17	ug/Kg		10/21/22 06:58	10/21/22 18:06	1
Aroclor-1254	<50		50	21	ug/Kg		10/21/22 06:58	10/21/22 18:06	1
Aroclor-1260	<50		50	21	ug/Kg		10/21/22 06:58	10/21/22 18:06	1
Aroclor-1262	<50		50	22	ug/Kg		10/21/22 06:58	10/21/22 18:06	1
Aroclor-1268	<50		50	16	ug/Kg		10/21/22 06:58	10/21/22 18:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	108		10 - 149	10/21/22 06:58	10/21/22 18:06	1
DCB Decachlorobiphenyl	107		10 - 174	10/21/22 06:58	10/21/22 18:06	1

Lab Sample ID: LCS 240-548096/2-A

Matrix: Solid

Analysis Batch: 548240

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 548096

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	1000	629		ug/Kg		63	28 - 140
Aroclor-1260	1000	710		ug/Kg		71	39 - 153

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	80		10 - 149
DCB Decachlorobiphenyl	89		10 - 174

Lab Sample ID: 240-175050-17 MS

Matrix: Solid

Analysis Batch: 548240

Client Sample ID: CM-CS-E1-629-628-221019

Prep Type: Total/NA

Prep Batch: 548096

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	<1200		1120	2670	F1	ug/Kg	☼	239	10 - 146
Aroclor-1260	<1200	F1	1120	2270	F1	ug/Kg	☼	203	10 - 158

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	13		10 - 149
DCB Decachlorobiphenyl	43		10 - 174

Lab Sample ID: 240-175050-17 MSD

Matrix: Solid

Analysis Batch: 548240

Client Sample ID: CM-CS-E1-629-628-221019

Prep Type: Total/NA

Prep Batch: 548096

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	<1200		1090	3460	F1	ug/Kg	☼	316	10 - 146	26	40
Aroclor-1260	<1200	F1	1090	3010	F1	ug/Kg	☼	275	10 - 158	28	40

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 240-175050-17 MSD

Matrix: Solid

Analysis Batch: 548240

Client Sample ID: CM-CS-E1-629-628-221019

Prep Type: Total/NA

Prep Batch: 548096

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	26		10 - 149
DCB Decachlorobiphenyl	79		10 - 174

Lab Sample ID: MB 240-548097/1-A

Matrix: Solid

Analysis Batch: 548338

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 548097

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1016	<50		50	25	ug/Kg		10/21/22 07:35	10/24/22 09:45	1
Aroclor-1221	<50		50	30	ug/Kg		10/21/22 07:35	10/24/22 09:45	1
Aroclor-1232	<50		50	21	ug/Kg		10/21/22 07:35	10/24/22 09:45	1
Aroclor-1242	<50		50	19	ug/Kg		10/21/22 07:35	10/24/22 09:45	1
Aroclor-1248	<50		50	17	ug/Kg		10/21/22 07:35	10/24/22 09:45	1
Aroclor-1254	<50		50	21	ug/Kg		10/21/22 07:35	10/24/22 09:45	1
Aroclor-1260	<50		50	21	ug/Kg		10/21/22 07:35	10/24/22 09:45	1
Aroclor-1262	<50		50	22	ug/Kg		10/21/22 07:35	10/24/22 09:45	1
Aroclor-1268	<50		50	16	ug/Kg		10/21/22 07:35	10/24/22 09:45	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits						
Tetrachloro-m-xylene	71		10 - 149				10/21/22 07:35	10/24/22 09:45	1
DCB Decachlorobiphenyl	80		10 - 174				10/21/22 07:35	10/24/22 09:45	1

Lab Sample ID: LCS 240-548097/2-A

Matrix: Solid

Analysis Batch: 548338

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 548097

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Aroclor-1016	1000	749		ug/Kg		75	28 - 140
Aroclor-1260	1000	810		ug/Kg		81	39 - 153

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	85		10 - 149
DCB Decachlorobiphenyl	90		10 - 174

Lab Sample ID: 240-175050-21 MS

Matrix: Solid

Analysis Batch: 548338

Client Sample ID: CM-CS-DUP02-221019

Prep Type: Total/NA

Prep Batch: 548097

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				Limits
Aroclor-1016	<60		1130	871		ug/Kg	⚠	77	10 - 146
Aroclor-1260	690		1130	1290		ug/Kg	⚠	54	10 - 158

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	75		10 - 149
DCB Decachlorobiphenyl	93		10 - 174

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 240-175050-21 MSD

Matrix: Solid

Analysis Batch: 548338

Client Sample ID: CM-CS-DUP02-221019

Prep Type: Total/NA

Prep Batch: 548097

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	<60		1120	726		ug/Kg	☆	65	10 - 146	18	40
Aroclor-1260	690		1120	1180		ug/Kg	☆	44	10 - 158	9	40
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Tetrachloro-m-xylene	72		10 - 149								
DCB Decachlorobiphenyl	126		10 - 174								

Method: Moisture - Percent Moisture

Lab Sample ID: 240-175050-1 DU

Matrix: Solid

Analysis Batch: 548194

Client Sample ID: CM-CS-A1-629-628-221018

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	85.2		91.5		%		7	20
Percent Moisture	14.8		8.5	F3	%		54	20

Lab Sample ID: 240-175050-10 DU

Matrix: Solid

Analysis Batch: 548194

Client Sample ID: CM-CS-E2-629-628-221019

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	85.5		86.2		%		0.8	20
Percent Moisture	14.5		13.8		%		5	20

Lab Sample ID: 240-175050-17 DU

Matrix: Solid

Analysis Batch: 548194

Client Sample ID: CM-CS-E1-629-628-221019

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	87.1		86.3		%		0.9	20
Percent Moisture	12.9		13.7		%		6	20

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

GC Semi VOA

Prep Batch: 548096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175050-1	CM-CS-A1-629-628-221018	Total/NA	Solid	3546	
240-175050-2	CM-CS-A1-628-627-221018	Total/NA	Solid	3546	
240-175050-3	CM-CS-B1-629-628-221018	Total/NA	Solid	3546	
240-175050-4	CM-CS-B1-628-627-221018	Total/NA	Solid	3546	
240-175050-5	CM-CS-A3-628-627-221018	Total/NA	Solid	3546	
240-175050-6	CM-CS-C2-629-628-221019	Total/NA	Solid	3546	
240-175050-7	CM-CS-C2-628-627-221019	Total/NA	Solid	3546	
240-175050-8	CM-CS-D2-629-628-221019	Total/NA	Solid	3546	
240-175050-9	CM-CS-D2-628-627-221019	Total/NA	Solid	3546	
240-175050-10	CM-CS-E2-629-628-221019	Total/NA	Solid	3546	
240-175050-11	CM-CS-E2-628-627-221019	Total/NA	Solid	3546	
240-175050-12	CM-CS-DUP01-221019	Total/NA	Solid	3546	
240-175050-13	CM-CS-C1-629-628-221019	Total/NA	Solid	3546	
240-175050-14	CM-CS-C1-628-627-221019	Total/NA	Solid	3546	
240-175050-15	CM-CS-D1-629-628-221019	Total/NA	Solid	3546	
240-175050-16	CM-CS-D1-628-627-221019	Total/NA	Solid	3546	
240-175050-17	CM-CS-E1-629-628-221019	Total/NA	Solid	3546	
240-175050-18	CM-CS-E1-628-627-221019	Total/NA	Solid	3546	
240-175050-19	CM-CS-F1-629-628-221019	Total/NA	Solid	3546	
240-175050-20	CM-CS-F1-628-627-221019	Total/NA	Solid	3546	
MB 240-548096/1-A	Method Blank	Total/NA	Solid	3546	
LCS 240-548096/2-A	Lab Control Sample	Total/NA	Solid	3546	
240-175050-17 MS	CM-CS-E1-629-628-221019	Total/NA	Solid	3546	
240-175050-17 MSD	CM-CS-E1-629-628-221019	Total/NA	Solid	3546	

Prep Batch: 548097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175050-21	CM-CS-DUP02-221019	Total/NA	Solid	3546	
MB 240-548097/1-A	Method Blank	Total/NA	Solid	3546	
LCS 240-548097/2-A	Lab Control Sample	Total/NA	Solid	3546	
240-175050-21 MS	CM-CS-DUP02-221019	Total/NA	Solid	3546	
240-175050-21 MSD	CM-CS-DUP02-221019	Total/NA	Solid	3546	

Analysis Batch: 548240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175050-1	CM-CS-A1-629-628-221018	Total/NA	Solid	8082A	548096
240-175050-2	CM-CS-A1-628-627-221018	Total/NA	Solid	8082A	548096
240-175050-3	CM-CS-B1-629-628-221018	Total/NA	Solid	8082A	548096
240-175050-4	CM-CS-B1-628-627-221018	Total/NA	Solid	8082A	548096
240-175050-5	CM-CS-A3-628-627-221018	Total/NA	Solid	8082A	548096
240-175050-6	CM-CS-C2-629-628-221019	Total/NA	Solid	8082A	548096
240-175050-7	CM-CS-C2-628-627-221019	Total/NA	Solid	8082A	548096
240-175050-8	CM-CS-D2-629-628-221019	Total/NA	Solid	8082A	548096
240-175050-9	CM-CS-D2-628-627-221019	Total/NA	Solid	8082A	548096
240-175050-10	CM-CS-E2-629-628-221019	Total/NA	Solid	8082A	548096
240-175050-11	CM-CS-E2-628-627-221019	Total/NA	Solid	8082A	548096
240-175050-12	CM-CS-DUP01-221019	Total/NA	Solid	8082A	548096
240-175050-13	CM-CS-C1-629-628-221019	Total/NA	Solid	8082A	548096
240-175050-14	CM-CS-C1-628-627-221019	Total/NA	Solid	8082A	548096
240-175050-15	CM-CS-D1-629-628-221019	Total/NA	Solid	8082A	548096
240-175050-16	CM-CS-D1-628-627-221019	Total/NA	Solid	8082A	548096

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QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

GC Semi VOA (Continued)

Analysis Batch: 548240 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175050-17	CM-CS-E1-629-628-221019	Total/NA	Solid	8082A	548096
240-175050-18	CM-CS-E1-628-627-221019	Total/NA	Solid	8082A	548096
240-175050-19	CM-CS-F1-629-628-221019	Total/NA	Solid	8082A	548096
240-175050-20	CM-CS-F1-628-627-221019	Total/NA	Solid	8082A	548096
MB 240-548096/1-A	Method Blank	Total/NA	Solid	8082A	548096
LCS 240-548096/2-A	Lab Control Sample	Total/NA	Solid	8082A	548096
240-175050-17 MS	CM-CS-E1-629-628-221019	Total/NA	Solid	8082A	548096
240-175050-17 MSD	CM-CS-E1-629-628-221019	Total/NA	Solid	8082A	548096

Analysis Batch: 548338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175050-21	CM-CS-DUP02-221019	Total/NA	Solid	8082A	548097
MB 240-548097/1-A	Method Blank	Total/NA	Solid	8082A	548097
LCS 240-548097/2-A	Lab Control Sample	Total/NA	Solid	8082A	548097
240-175050-21 MS	CM-CS-DUP02-221019	Total/NA	Solid	8082A	548097
240-175050-21 MSD	CM-CS-DUP02-221019	Total/NA	Solid	8082A	548097

General Chemistry

Analysis Batch: 548194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175050-1	CM-CS-A1-629-628-221018	Total/NA	Solid	Moisture	
240-175050-2	CM-CS-A1-628-627-221018	Total/NA	Solid	Moisture	
240-175050-3	CM-CS-B1-629-628-221018	Total/NA	Solid	Moisture	
240-175050-4	CM-CS-B1-628-627-221018	Total/NA	Solid	Moisture	
240-175050-5	CM-CS-A3-628-627-221018	Total/NA	Solid	Moisture	
240-175050-6	CM-CS-C2-629-628-221019	Total/NA	Solid	Moisture	
240-175050-7	CM-CS-C2-628-627-221019	Total/NA	Solid	Moisture	
240-175050-8	CM-CS-D2-629-628-221019	Total/NA	Solid	Moisture	
240-175050-9	CM-CS-D2-628-627-221019	Total/NA	Solid	Moisture	
240-175050-10	CM-CS-E2-629-628-221019	Total/NA	Solid	Moisture	
240-175050-11	CM-CS-E2-628-627-221019	Total/NA	Solid	Moisture	
240-175050-12	CM-CS-DUP01-221019	Total/NA	Solid	Moisture	
240-175050-13	CM-CS-C1-629-628-221019	Total/NA	Solid	Moisture	
240-175050-14	CM-CS-C1-628-627-221019	Total/NA	Solid	Moisture	
240-175050-15	CM-CS-D1-629-628-221019	Total/NA	Solid	Moisture	
240-175050-16	CM-CS-D1-628-627-221019	Total/NA	Solid	Moisture	
240-175050-17	CM-CS-E1-629-628-221019	Total/NA	Solid	Moisture	
240-175050-18	CM-CS-E1-628-627-221019	Total/NA	Solid	Moisture	
240-175050-19	CM-CS-F1-629-628-221019	Total/NA	Solid	Moisture	
240-175050-20	CM-CS-F1-628-627-221019	Total/NA	Solid	Moisture	
240-175050-21	CM-CS-DUP02-221019	Total/NA	Solid	Moisture	
240-175050-1 DU	CM-CS-A1-629-628-221018	Total/NA	Solid	Moisture	
240-175050-10 DU	CM-CS-E2-629-628-221019	Total/NA	Solid	Moisture	
240-175050-17 DU	CM-CS-E1-629-628-221019	Total/NA	Solid	Moisture	

Eurofins Canton

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-A1-629-628-221018

Lab Sample ID: 240-175050-1

Date Collected: 10/18/22 15:19

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Client Sample ID: CM-CS-A1-629-628-221018

Lab Sample ID: 240-175050-1

Date Collected: 10/18/22 15:19

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		10	548240	RR	EET CAN	10/21/22 18:37

Client Sample ID: CM-CS-A1-628-627-221018

Lab Sample ID: 240-175050-2

Date Collected: 10/18/22 15:19

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Client Sample ID: CM-CS-A1-628-627-221018

Lab Sample ID: 240-175050-2

Date Collected: 10/18/22 15:19

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		10	548240	RR	EET CAN	10/21/22 18:53

Client Sample ID: CM-CS-B1-629-628-221018

Lab Sample ID: 240-175050-3

Date Collected: 10/18/22 15:25

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Client Sample ID: CM-CS-B1-629-628-221018

Lab Sample ID: 240-175050-3

Date Collected: 10/18/22 15:25

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		10	548240	RR	EET CAN	10/21/22 19:09

Client Sample ID: CM-CS-B1-628-627-221018

Lab Sample ID: 240-175050-4

Date Collected: 10/18/22 15:25

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Eurofins Canton

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-B1-628-627-221018

Lab Sample ID: 240-175050-4

Date Collected: 10/18/22 15:25

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		10	548240	RR	EET CAN	10/21/22 19:25

Client Sample ID: CM-CS-A3-628-627-221018

Lab Sample ID: 240-175050-5

Date Collected: 10/18/22 08:06

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Client Sample ID: CM-CS-A3-628-627-221018

Lab Sample ID: 240-175050-5

Date Collected: 10/18/22 08:06

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		10	548240	RR	EET CAN	10/21/22 19:41

Client Sample ID: CM-CS-C2-629-628-221019

Lab Sample ID: 240-175050-6

Date Collected: 10/19/22 08:51

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Client Sample ID: CM-CS-C2-629-628-221019

Lab Sample ID: 240-175050-6

Date Collected: 10/19/22 08:51

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		10	548240	RR	EET CAN	10/21/22 19:57

Client Sample ID: CM-CS-C2-628-627-221019

Lab Sample ID: 240-175050-7

Date Collected: 10/19/22 08:51

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-C2-628-627-221019

Lab Sample ID: 240-175050-7

Date Collected: 10/19/22 08:51

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		20	548240	RR	EET CAN	10/21/22 20:13

Client Sample ID: CM-CS-D2-629-628-221019

Lab Sample ID: 240-175050-8

Date Collected: 10/19/22 08:35

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Client Sample ID: CM-CS-D2-629-628-221019

Lab Sample ID: 240-175050-8

Date Collected: 10/19/22 08:35

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		20	548240	RR	EET CAN	10/21/22 20:28

Client Sample ID: CM-CS-D2-628-627-221019

Lab Sample ID: 240-175050-9

Date Collected: 10/19/22 08:35

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Client Sample ID: CM-CS-D2-628-627-221019

Lab Sample ID: 240-175050-9

Date Collected: 10/19/22 08:35

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		20	548240	RR	EET CAN	10/21/22 20:44

Client Sample ID: CM-CS-E2-629-628-221019

Lab Sample ID: 240-175050-10

Date Collected: 10/19/22 08:21

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-E2-629-628-221019

Lab Sample ID: 240-175050-10

Date Collected: 10/19/22 08:21

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		20	548240	RR	EET CAN	10/21/22 21:00

Client Sample ID: CM-CS-E2-628-627-221019

Lab Sample ID: 240-175050-11

Date Collected: 10/19/22 08:21

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Client Sample ID: CM-CS-E2-628-627-221019

Lab Sample ID: 240-175050-11

Date Collected: 10/19/22 08:21

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 70.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		5	548240	RR	EET CAN	10/21/22 21:16

Client Sample ID: CM-CS-DUP01-221019

Lab Sample ID: 240-175050-12

Date Collected: 10/19/22 08:21

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Client Sample ID: CM-CS-DUP01-221019

Lab Sample ID: 240-175050-12

Date Collected: 10/19/22 08:21

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		20	548240	RR	EET CAN	10/21/22 21:32

Client Sample ID: CM-CS-C1-629-628-221019

Lab Sample ID: 240-175050-13

Date Collected: 10/19/22 14:36

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-C1-629-628-221019

Lab Sample ID: 240-175050-13

Date Collected: 10/19/22 14:36

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		10	548240	RR	EET CAN	10/21/22 21:48

Client Sample ID: CM-CS-C1-628-627-221019

Lab Sample ID: 240-175050-14

Date Collected: 10/19/22 14:36

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Client Sample ID: CM-CS-C1-628-627-221019

Lab Sample ID: 240-175050-14

Date Collected: 10/19/22 14:36

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		5	548240	RR	EET CAN	10/21/22 22:03

Client Sample ID: CM-CS-D1-629-628-221019

Lab Sample ID: 240-175050-15

Date Collected: 10/19/22 14:49

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Client Sample ID: CM-CS-D1-629-628-221019

Lab Sample ID: 240-175050-15

Date Collected: 10/19/22 14:49

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		50	548240	RR	EET CAN	10/21/22 22:19

Client Sample ID: CM-CS-D1-628-627-221019

Lab Sample ID: 240-175050-16

Date Collected: 10/19/22 14:49

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-D1-628-627-221019

Lab Sample ID: 240-175050-16

Date Collected: 10/19/22 14:49

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		10	548240	RR	EET CAN	10/21/22 22:35

Client Sample ID: CM-CS-E1-629-628-221019

Lab Sample ID: 240-175050-17

Date Collected: 10/19/22 15:14

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Client Sample ID: CM-CS-E1-629-628-221019

Lab Sample ID: 240-175050-17

Date Collected: 10/19/22 15:14

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		20	548240	RR	EET CAN	10/21/22 23:38

Client Sample ID: CM-CS-E1-628-627-221019

Lab Sample ID: 240-175050-18

Date Collected: 10/19/22 15:14

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Client Sample ID: CM-CS-E1-628-627-221019

Lab Sample ID: 240-175050-18

Date Collected: 10/19/22 15:14

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		5	548240	RR	EET CAN	10/22/22 00:26

Client Sample ID: CM-CS-F1-629-628-221019

Lab Sample ID: 240-175050-19

Date Collected: 10/19/22 15:03

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Client Sample ID: CM-CS-F1-629-628-221019

Lab Sample ID: 240-175050-19

Date Collected: 10/19/22 15:03

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		10	548240	RR	EET CAN	10/22/22 00:42

Client Sample ID: CM-CS-F1-628-627-221019

Lab Sample ID: 240-175050-20

Date Collected: 10/19/22 15:03

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Client Sample ID: CM-CS-F1-628-627-221019

Lab Sample ID: 240-175050-20

Date Collected: 10/19/22 15:03

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548096	AJ	EET CAN	10/21/22 06:58
Total/NA	Analysis	8082A		5	548240	RR	EET CAN	10/22/22 00:58

Client Sample ID: CM-CS-DUP02-221019

Lab Sample ID: 240-175050-21

Date Collected: 10/19/22 10:53

Matrix: Solid

Date Received: 10/20/22 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548194	MED	EET CAN	10/21/22 13:00

Client Sample ID: CM-CS-DUP02-221019

Lab Sample ID: 240-175050-21

Date Collected: 10/19/22 10:53

Matrix: Solid

Date Received: 10/20/22 15:05

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548097	AJ	EET CAN	10/21/22 07:35
Total/NA	Analysis	8082A		1	548338	MBB	EET CAN	10/24/22 10:19

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175050-1

Laboratory: Eurofins Canton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200004	07-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3546	Solid	Aroclor-1262
8082A	3546	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Minnesota	NELAP	039-999-348	12-31-22
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record

3-2/3-2

Client Information		Sample:	Lab PM:	Carrier Tracking No(s):	COC No:			
Client Contact: Rachelle Houle		Alexia Scholl	Knapp, Jim D		240-99594-36245.5			
Company: Tetra Tech EM Inc.			E-Mail: Jim.Knapp@tetra-tech.com	State of Origin:	Page: Page 5 of 6			
Address: 1 South Wacker Drive 37 Floor Ste. 3700 Chicago State, Zip: IL, 60606		PWSID:		Job #:				
Phone: 312-201-7721(Tel)		Due Date Requested:		Analysis Requested				
Email: rachelle.houle@tetra-tech.com		TAT Requested (days): 2 Days						
Project Name: Chudnow Metals		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No						
Site:		PO #: 1168715/ETA-76						
		WO #:						
		Project #: 24029930						
		SSOW#:						
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Swab, Over-sat, BT=Test, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Preservation Codes:	Preservation Codes:
CM-CS-DUP01-221019	10/19/22	084	C	Solid			A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - Other (specify)
CM-CS-DUP01-221019	10/19/22	1436		Solid				
CM-CS-DUP01-221019	10/19/22	1436		Solid				
CM-CS-DUP01-221019	10/19/22	1449		Solid				
CM-CS-DUP01-221019	10/19/22	1449		Solid				
CM-CS-DUP01-221019	10/19/22	1514		Solid				
CM-CS-DUP01-221019	10/19/22	1514		Solid				
CM-CS-DUP01-221019	10/19/22	1503		Solid				
CM-CS-DUP01-221019	10/19/22	1503		Solid				
CM-CS-DUP01-221019	10/19/22	1053		Solid				
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:			
Empty Kit Relinquished by:					Method of Shipment:			
Relinquished by: Alexia Scholl					Received by: Jim Knapp			
Relinquished by:					Date/Time: 10/19/22 1300			
Relinquished by:					Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					Date/Time:			
Custody Seal No.:					Cooler Temperature(s) °C and Other Remarks:			

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing
America

3-2/32

Client Information		Sampler:	Lab PM	Carrier Tracking No(s):	COC No:
Client Contact: Rachel Houle		Alexia Schell	Knapp, Jim D		240-99594-36245.4
Company: Tetra Tech EM Inc.		Phone:	E-Mail: Jim.Knapp@tetra-tech.com	State of Origin:	Page 4 of 6
Address: 1 South Wacker Drive 37 Floor Ste. 3700 Chicago State, Zip: Ill. 60606		PWSID:		Job #:	
Phone: 312-201-7721(Tel)		Due Date Requested:		Analysis Requested	
Email: rachel.houle@tetra-tech.com		TAT Requested (days): 2 Days		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Project Name: Chudnow Metals		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Total Number of Containers	
Site:		PO #: 1168715/ETA-76		Special Instructions/Note:	
SSOW#:		WO #:			
		Project #: 24029930			
		Sample Date			
		Sample Time			
		Sample Type (C=comp, G=grab)			
		Matrix (W=water, S=solid, O=oil, A=air)			
		Preservation Code:			
Sample Identification		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
CM-CS-A1-629-628-221018		10/18/22		1519	
CM-CS-A1-628-627-221018		1519		1525	
CM-CS-B1-629-628-221018		1525		1525	
CM-CS-B1-628-627-221018		1525		1525	
CM-CS-A3-628-627-221018		1525		1525	
CM-CS-C2-629-628-221019		10/19/22		1525	
CM-CS-C2-628-627-221019		10/19/22		1525	
CM-CS-D2-629-628-221019		10/19/22		1525	
CM-CS-D2-628-627-221019		10/19/22		1525	
CM-CS-E2-629-628-221019		10/19/22		1525	
CM-CS-E2-628-627-221019		10/19/22		1525	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: <i>Alexia Schell</i>		Date/Time: 10/19/22 1300		Date/Time: 10/19/22 1505	
Relinquished by:		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

Eurofins - Canton Sample Receipt Form/Narrative		Login # : <u>175050</u>	
Barberton Facility			
Client <u>Tetra Tech</u>		Site Name _____	
Cooler Received on <u>10-20-22</u>		Opened on <u>10-20-22</u>	
Cooler unpacked by: <u>JME</u>			
FedEx: 1 st Grd <input checked="" type="radio"/> Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____			
Receipt After-hours: Drop-off Date/Time _____		Storage Location _____	
Eurofins Cooler # <u>EC</u> Foam Box Client Cooler Box Other _____			
Packing material used: <u>Bubble Wrap</u> Foam Plastic Bag None Other _____			
COOLANT: <u>Wet Ice</u> Blue Ice Dry Ice Water None			
1. Cooler temperature upon receipt		<input type="checkbox"/> See Multiple Cooler Form	
IR GUN# IR-13 (CF +0.7 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C			
IR GUN #IR-15 (CF 0.0 °C) Observed Cooler Temp. <u>3.2</u> °C Corrected Cooler Temp. <u>3.2</u> °C			
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u>		<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No NA <input checked="" type="radio"/> Yes <input type="radio"/> No NA <input checked="" type="radio"/> Yes <input type="radio"/> No NA	
-Were the seals on the outside of the cooler(s) signed & dated?			
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?			
-Were tamper/custody seals intact and uncompromised?			
3. Shippers' packing slip attached to the cooler(s)?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
4. Did custody papers accompany the sample(s)?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
5. Were the custody papers relinquished & signed in the appropriate place?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
7. Did all bottles arrive in good condition (Unbroken)?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
10. Were correct bottle(s) used for the test(s) indicated?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
11. Sufficient quantity received to perform indicated analyses?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
12. Are these work share samples and all listed on the COC?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
If yes, Questions 13-17 have been checked at the originating laboratory.			
13. Were all preserved sample(s) at the correct pH upon receipt?		<input checked="" type="radio"/> Yes <input type="radio"/> No <u>NA</u> pH Strip Lot# HC286797	
14. Were VOAs on the COC?		<input checked="" type="radio"/> Yes <input type="radio"/> No <u>NA</u>	
15. Were air bubbles >6 mm in any VOA vials? Larger than this.		<input checked="" type="radio"/> Yes <input type="radio"/> No <u>NA</u>	
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____		<input checked="" type="radio"/> Yes <input type="radio"/> No	
17. Was a LL Hg or Me Hg trip blank present? _____		<input checked="" type="radio"/> Yes <input type="radio"/> No	
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____			
Concerning _____			

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES <input type="checkbox"/> additional next page		Samples processed by: _____

19. SAMPLE CONDITION	
Sample(s) _____ were received after the recommended holding time had expired.	
Sample(s) _____ were received in a broken container.	
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)	

20. SAMPLE PRESERVATION	
Sample(s) _____ were further preserved in the laboratory.	
Time preserved: _____ Preservative(s) added/Lot number(s): _____	
VOA Sample Preservation - Date/Time VOAs Frozen: _____	

ANALYTICAL REPORT

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-175238-1
Client Project/Site: Chudnow Metals

For:

Tetra Tech EM Inc.
1 South Wacker Drive 37 Floor
Ste. 3700
Chicago, Illinois 60606

Attn: Rachel Houle



Authorized for release by:
10/26/2022 7:32:59 PM

Jim Knapp, Project Manager II
(630)758-0262
Jim.Knapp@et.eurofinsus.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175238-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175238-1

Job ID: 240-175238-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-175238-1

Receipt

The samples were received on 10/24/2022 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 16.9°C

PCBs

Method 8082A: The following samples were diluted due to abundance of target analytes: CM-CS-G1-629--629-221020 (240-175238-1), CM-CS-F3-629-628-221020 (240-175238-3) and CM-CS-F3-628-627-221020 (240-175238-4). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: CM-CS-G1-629--629-221020 (240-175238-1), CM-CS-G1-628-627-221020 (240-175238-2), (240-174810-F-1-H), (240-174810-F-1-I MS) and (240-174810-F-1-J MSD).597774055019705972476

Method 8082A: The following samples appears to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: CM-CS-G1-629--629-221020 (240-175238-1), CM-CS-G1-628-627-221020 (240-175238-2), CM-CS-F3-629-628-221020 (240-175238-3) and CM-CS-F3-628-627-221020 (240-175238-4). The samples have been quantified and reported using the best overall Aroclor/standard pattern match.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175238-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAN
Moisture	Percent Moisture	EPA	EET CAN
3546	Microwave Extraction	SW846	EET CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175238-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-175238-1	CM-CS-G1-629--629-221020	Solid	10/20/22 15:16	10/24/22 09:50
240-175238-2	CM-CS-G1-628-627-221020	Solid	10/20/22 15:16	10/24/22 09:50
240-175238-3	CM-CS-F3-629-628-221020	Solid	10/20/22 15:24	10/24/22 09:50
240-175238-4	CM-CS-F3-628-627-221020	Solid	10/20/22 15:24	10/24/22 09:50

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175238-1

Client Sample ID: CM-CS-G1-629--629-221020

Lab Sample ID: 240-175238-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	3400		2800	1000	ug/Kg	50	✱	8082A	Total/NA
Aroclor-1254	3600		2800	1200	ug/Kg	50	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	7000		2800	1700	ug/Kg	50	✱	8082A	Total/NA

Client Sample ID: CM-CS-G1-628-627-221020

Lab Sample ID: 240-175238-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	1700		530	200	ug/Kg	10	✱	8082A	Total/NA
Aroclor-1254	580		530	220	ug/Kg	10	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	2300		530	320	ug/Kg	10	✱	8082A	Total/NA

Client Sample ID: CM-CS-F3-629-628-221020

Lab Sample ID: 240-175238-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	8400		6500	2500	ug/Kg	100	✱	8082A	Total/NA
Aroclor-1254	17000		6500	2700	ug/Kg	100	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	25000		6500	3900	ug/Kg	100	✱	8082A	Total/NA

Client Sample ID: CM-CS-F3-628-627-221020

Lab Sample ID: 240-175238-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	6600		6400	2400	ug/Kg	100	✱	8082A	Total/NA
Aroclor-1254	17000		6400	2700	ug/Kg	100	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	24000		6400	3800	ug/Kg	100	✱	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175238-1

Client Sample ID: CM-CS-G1-629--629-221020

Lab Sample ID: 240-175238-1

Date Collected: 10/20/22 15:16

Matrix: Solid

Date Received: 10/24/22 09:50

Percent Solids: 90.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<2800		2800	1400	ug/Kg	✱	10/25/22 09:20	10/26/22 11:49	50
Aroclor-1221	<2800		2800	1700	ug/Kg	✱	10/25/22 09:20	10/26/22 11:49	50
Aroclor-1232	<2800		2800	1200	ug/Kg	✱	10/25/22 09:20	10/26/22 11:49	50
Aroclor-1242	3400		2800	1000	ug/Kg	✱	10/25/22 09:20	10/26/22 11:49	50
Aroclor-1248	<2800		2800	940	ug/Kg	✱	10/25/22 09:20	10/26/22 11:49	50
Aroclor-1254	3600		2800	1200	ug/Kg	✱	10/25/22 09:20	10/26/22 11:49	50
Aroclor-1260	<2800		2800	1200	ug/Kg	✱	10/25/22 09:20	10/26/22 11:49	50
Aroclor-1262	<2800		2800	1200	ug/Kg	✱	10/25/22 09:20	10/26/22 11:49	50
Aroclor-1268	<2800		2800	880	ug/Kg	✱	10/25/22 09:20	10/26/22 11:49	50
Polychlorinated biphenyls, Total	7000		2800	1700	ug/Kg	✱	10/25/22 09:20	10/26/22 11:49	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	S1-	10 - 149	10/25/22 09:20	10/26/22 11:49	50
DCB Decachlorobiphenyl	0	S1-	10 - 174	10/25/22 09:20	10/26/22 11:49	50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	90.3		0.1	0.1	%			10/25/22 14:22	1
Percent Moisture (EPA Moisture)	9.7		0.1	0.1	%			10/25/22 14:22	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175238-1

Client Sample ID: CM-CS-G1-628-627-221020

Lab Sample ID: 240-175238-2

Date Collected: 10/20/22 15:16

Matrix: Solid

Date Received: 10/24/22 09:50

Percent Solids: 90.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<530		530	270	ug/Kg	✱	10/25/22 09:20	10/26/22 12:05	10
Aroclor-1221	<530		530	320	ug/Kg	✱	10/25/22 09:20	10/26/22 12:05	10
Aroclor-1232	<530		530	220	ug/Kg	✱	10/25/22 09:20	10/26/22 12:05	10
Aroclor-1242	1700		530	200	ug/Kg	✱	10/25/22 09:20	10/26/22 12:05	10
Aroclor-1248	<530		530	180	ug/Kg	✱	10/25/22 09:20	10/26/22 12:05	10
Aroclor-1254	580		530	220	ug/Kg	✱	10/25/22 09:20	10/26/22 12:05	10
Aroclor-1260	<530		530	220	ug/Kg	✱	10/25/22 09:20	10/26/22 12:05	10
Aroclor-1262	<530		530	240	ug/Kg	✱	10/25/22 09:20	10/26/22 12:05	10
Aroclor-1268	<530		530	170	ug/Kg	✱	10/25/22 09:20	10/26/22 12:05	10
Polychlorinated biphenyls, Total	2300		530	320	ug/Kg	✱	10/25/22 09:20	10/26/22 12:05	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	51		10 - 149	10/25/22 09:20	10/26/22 12:05	10
DCB Decachlorobiphenyl	47		10 - 174	10/25/22 09:20	10/26/22 12:05	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	90.0		0.1	0.1	%			10/25/22 14:22	1
Percent Moisture (EPA Moisture)	10		0.1	0.1	%			10/25/22 14:22	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175238-1

Client Sample ID: CM-CS-F3-629-628-221020

Lab Sample ID: 240-175238-3

Date Collected: 10/20/22 15:24

Matrix: Solid

Date Received: 10/24/22 09:50

Percent Solids: 78.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<6500		6500	3300	ug/Kg	✱	10/25/22 09:20	10/26/22 12:21	100
Aroclor-1221	<6500		6500	3900	ug/Kg	✱	10/25/22 09:20	10/26/22 12:21	100
Aroclor-1232	<6500		6500	2700	ug/Kg	✱	10/25/22 09:20	10/26/22 12:21	100
Aroclor-1242	8400		6500	2500	ug/Kg	✱	10/25/22 09:20	10/26/22 12:21	100
Aroclor-1248	<6500		6500	2200	ug/Kg	✱	10/25/22 09:20	10/26/22 12:21	100
Aroclor-1254	17000		6500	2700	ug/Kg	✱	10/25/22 09:20	10/26/22 12:21	100
Aroclor-1260	<6500		6500	2700	ug/Kg	✱	10/25/22 09:20	10/26/22 12:21	100
Aroclor-1262	<6500		6500	2900	ug/Kg	✱	10/25/22 09:20	10/26/22 12:21	100
Aroclor-1268	<6500		6500	2100	ug/Kg	✱	10/25/22 09:20	10/26/22 12:21	100
Polychlorinated biphenyls, Total	25000		6500	3900	ug/Kg	✱	10/25/22 09:20	10/26/22 12:21	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	S1-	10 - 149	10/25/22 09:20	10/26/22 12:21	100
DCB Decachlorobiphenyl	0	S1-	10 - 174	10/25/22 09:20	10/26/22 12:21	100

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	78.2		0.1	0.1	%			10/25/22 14:22	1
Percent Moisture (EPA Moisture)	21.8		0.1	0.1	%			10/25/22 14:22	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175238-1

Client Sample ID: CM-CS-F3-628-627-221020

Lab Sample ID: 240-175238-4

Date Collected: 10/20/22 15:24

Matrix: Solid

Date Received: 10/24/22 09:50

Percent Solids: 76.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<6400		6400	3200	ug/Kg	✱	10/25/22 09:20	10/26/22 12:37	100
Aroclor-1221	<6400		6400	3800	ug/Kg	✱	10/25/22 09:20	10/26/22 12:37	100
Aroclor-1232	<6400		6400	2700	ug/Kg	✱	10/25/22 09:20	10/26/22 12:37	100
Aroclor-1242	6600		6400	2400	ug/Kg	✱	10/25/22 09:20	10/26/22 12:37	100
Aroclor-1248	<6400		6400	2200	ug/Kg	✱	10/25/22 09:20	10/26/22 12:37	100
Aroclor-1254	17000		6400	2700	ug/Kg	✱	10/25/22 09:20	10/26/22 12:37	100
Aroclor-1260	<6400		6400	2700	ug/Kg	✱	10/25/22 09:20	10/26/22 12:37	100
Aroclor-1262	<6400		6400	2800	ug/Kg	✱	10/25/22 09:20	10/26/22 12:37	100
Aroclor-1268	<6400		6400	2000	ug/Kg	✱	10/25/22 09:20	10/26/22 12:37	100
Polychlorinated biphenyls, Total	24000		6400	3800	ug/Kg	✱	10/25/22 09:20	10/26/22 12:37	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	S1-	10 - 149	10/25/22 09:20	10/26/22 12:37	100
DCB Decachlorobiphenyl	0	S1-	10 - 174	10/25/22 09:20	10/26/22 12:37	100

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	76.6		0.1	0.1	%			10/25/22 14:22	1
Percent Moisture (EPA Moisture)	23.4		0.1	0.1	%			10/25/22 14:22	1

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175238-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-149)	DCBP1 (10-174)
240-175238-1	CM-CS-G1-629-629-221020	0 S1-	0 S1-
240-175238-2	CM-CS-G1-628-627-221020	51	47
240-175238-3	CM-CS-F3-629-628-221020	0 S1-	0 S1-
240-175238-4	CM-CS-F3-628-627-221020	0 S1-	0 S1-
LCS 240-548602/2-A	Lab Control Sample	76	62
MB 240-548602/1-A	Method Blank	95	91
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCBP = DCB Decachlorobiphenyl			

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175238-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-548602/1-A

Matrix: Solid

Analysis Batch: 548735

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 548602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<50		50	25	ug/Kg		10/25/22 09:20	10/26/22 10:30	1
Aroclor-1221	<50		50	30	ug/Kg		10/25/22 09:20	10/26/22 10:30	1
Aroclor-1232	<50		50	21	ug/Kg		10/25/22 09:20	10/26/22 10:30	1
Aroclor-1242	<50		50	19	ug/Kg		10/25/22 09:20	10/26/22 10:30	1
Aroclor-1248	<50		50	17	ug/Kg		10/25/22 09:20	10/26/22 10:30	1
Aroclor-1254	<50		50	21	ug/Kg		10/25/22 09:20	10/26/22 10:30	1
Aroclor-1260	<50		50	21	ug/Kg		10/25/22 09:20	10/26/22 10:30	1
Aroclor-1262	<50		50	22	ug/Kg		10/25/22 09:20	10/26/22 10:30	1
Aroclor-1268	<50		50	16	ug/Kg		10/25/22 09:20	10/26/22 10:30	1
Polychlorinated biphenyls, Total	<50		50	30	ug/Kg		10/25/22 09:20	10/26/22 10:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		10 - 149	10/25/22 09:20	10/26/22 10:30	1
DCB Decachlorobiphenyl	91		10 - 174	10/25/22 09:20	10/26/22 10:30	1

Lab Sample ID: LCS 240-548602/2-A

Matrix: Solid

Analysis Batch: 548735

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 548602

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	1000	630		ug/Kg		63	28 - 140
Aroclor-1260	1000	567		ug/Kg		57	39 - 153

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	76		10 - 149
DCB Decachlorobiphenyl	62		10 - 174

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175238-1

GC Semi VOA

Prep Batch: 548602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175238-1	CM-CS-G1-629-629-221020	Total/NA	Solid	3546	
240-175238-2	CM-CS-G1-628-627-221020	Total/NA	Solid	3546	
240-175238-3	CM-CS-F3-629-628-221020	Total/NA	Solid	3546	
240-175238-4	CM-CS-F3-628-627-221020	Total/NA	Solid	3546	
MB 240-548602/1-A	Method Blank	Total/NA	Solid	3546	
LCS 240-548602/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 548735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175238-1	CM-CS-G1-629-629-221020	Total/NA	Solid	8082A	548602
240-175238-2	CM-CS-G1-628-627-221020	Total/NA	Solid	8082A	548602
240-175238-3	CM-CS-F3-629-628-221020	Total/NA	Solid	8082A	548602
240-175238-4	CM-CS-F3-628-627-221020	Total/NA	Solid	8082A	548602
MB 240-548602/1-A	Method Blank	Total/NA	Solid	8082A	548602
LCS 240-548602/2-A	Lab Control Sample	Total/NA	Solid	8082A	548602

General Chemistry

Analysis Batch: 548687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175238-1	CM-CS-G1-629-629-221020	Total/NA	Solid	Moisture	
240-175238-2	CM-CS-G1-628-627-221020	Total/NA	Solid	Moisture	
240-175238-3	CM-CS-F3-629-628-221020	Total/NA	Solid	Moisture	
240-175238-4	CM-CS-F3-628-627-221020	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175238-1

Client Sample ID: CM-CS-G1-629--629-221020

Lab Sample ID: 240-175238-1

Date Collected: 10/20/22 15:16

Matrix: Solid

Date Received: 10/24/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548687	BLW	EET CAN	10/25/22 14:22

Client Sample ID: CM-CS-G1-629--629-221020

Lab Sample ID: 240-175238-1

Date Collected: 10/20/22 15:16

Matrix: Solid

Date Received: 10/24/22 09:50

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548602	AJ	EET CAN	10/25/22 09:20
Total/NA	Analysis	8082A		50	548735	LSH	EET CAN	10/26/22 11:49

Client Sample ID: CM-CS-G1-628-627-221020

Lab Sample ID: 240-175238-2

Date Collected: 10/20/22 15:16

Matrix: Solid

Date Received: 10/24/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548687	BLW	EET CAN	10/25/22 14:22

Client Sample ID: CM-CS-G1-628-627-221020

Lab Sample ID: 240-175238-2

Date Collected: 10/20/22 15:16

Matrix: Solid

Date Received: 10/24/22 09:50

Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548602	AJ	EET CAN	10/25/22 09:20
Total/NA	Analysis	8082A		10	548735	LSH	EET CAN	10/26/22 12:05

Client Sample ID: CM-CS-F3-629-628-221020

Lab Sample ID: 240-175238-3

Date Collected: 10/20/22 15:24

Matrix: Solid

Date Received: 10/24/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548687	BLW	EET CAN	10/25/22 14:22

Client Sample ID: CM-CS-F3-629-628-221020

Lab Sample ID: 240-175238-3

Date Collected: 10/20/22 15:24

Matrix: Solid

Date Received: 10/24/22 09:50

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548602	AJ	EET CAN	10/25/22 09:20
Total/NA	Analysis	8082A		100	548735	LSH	EET CAN	10/26/22 12:21

Client Sample ID: CM-CS-F3-628-627-221020

Lab Sample ID: 240-175238-4

Date Collected: 10/20/22 15:24

Matrix: Solid

Date Received: 10/24/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548687	BLW	EET CAN	10/25/22 14:22

Eurofins Canton

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175238-1

Client Sample ID: CM-CS-F3-628-627-221020

Lab Sample ID: 240-175238-4

Date Collected: 10/20/22 15:24

Matrix: Solid

Date Received: 10/24/22 09:50

Percent Solids: 76.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548602	AJ	EET CAN	10/25/22 09:20
Total/NA	Analysis	8082A		100	548735	LSH	EET CAN	10/26/22 12:37

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175238-1

Laboratory: Eurofins Canton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200004	07-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3546	Solid	Aroclor-1262
8082A	3546	Solid	Aroclor-1268
8082A	3546	Solid	Polychlorinated biphenyls, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Minnesota	NELAP	039-999-348	12-31-22
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3546	Solid	Polychlorinated biphenyls, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Yes No			Custody Seal No. :		
Cooler Temperature(s) °C and Other Remarks:					

Eurofins - Canton Sample Receipt Form/Narrative		Login # : <u>175238</u>	
Barberton Facility			
Client <u>Tetra Tech</u>		Site Name _____	
Cooler Received on <u>10-24-22</u>		Opened on <u>10-24-22</u>	
FedEx: 1 st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____			
Receipt After-hours: Drop-off Date/Time _____		Storage Location _____	
Eurofins Cooler # <u>EL</u> Foam Box _____ Client Cooler _____ Box _____ Other _____			
Packing material used: <u>Bubble Wrap</u> Foam Plastic Bag None Other _____			
COOLANT: <u>Water</u> Blue Ice Dry Ice <u>Water</u> None _____			
1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form			
IR GUN# IR-13 (CF +0.7 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C			
IR GUN #IR-15 (CF 0.0 °C) Observed Cooler Temp. <u>16.9</u> °C Corrected Cooler Temp. <u>16.9</u> °C			
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u>		<input checked="" type="radio"/> Yes <input type="radio"/> No	
-Were the seals on the outside of the cooler(s) signed & dated?		<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?		<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA	
-Were tamper/custody seals intact and uncompromised?		<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA	
3. Shippers' packing slip attached to the cooler(s)?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
4. Did custody papers accompany the sample(s)?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
5. Were the custody papers relinquished & signed in the appropriate place?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
7. Did all bottles arrive in good condition (Unbroken)?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
10. Were correct bottle(s) used for the test(s) indicated?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
11. Sufficient quantity received to perform indicated analyses?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
12. Are these work share samples and all listed on the COC?		<input checked="" type="radio"/> Yes <input type="radio"/> No	
If yes, Questions 13-17 have been checked at the originating laboratory.			
13. Were all preserved sample(s) at the correct pH upon receipt?		<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> NA pH Strip Lot# HC286797	
14. Were VOAs on the COC?		<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> NA	
15. Were air bubbles >6 mm in any VOA vials? Larger than this.		<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> NA	
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____		<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> NA	
17. Was a LL Hg or Me Hg trip blank present? _____		<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> NA	
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____			
Concerning _____			

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES <input type="checkbox"/> additional next page		Samples processed by: _____

19. SAMPLE CONDITION	
Sample(s) _____ were received after the recommended holding time had expired.	
Sample(s) _____ were received in a broken container.	
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)	

20. SAMPLE PRESERVATION	
Sample(s) _____ were further preserved in the laboratory.	
Time preserved: _____ Preservative(s) added/Lot number(s): _____	
VOA Sample Preservation - Date/Time VOAs Frozen: _____	



Environment Testing

ANALYTICAL REPORT

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-175313-1
Client Project/Site: Chudnow Metals

For:

Tetra Tech EM Inc.
1 South Wacker Drive 37 Floor
Ste. 3700
Chicago, Illinois 60606

Attn: Rachel Houle

Authorized for release by:
10/28/2022 4:46:13 PM

Jim Knapp, Project Manager II
(630)758-0262
Jim.Knapp@et.eurofinsus.com

LINKS

Review your project
results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Job ID: 240-175313-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-175313-1

Receipt

The samples were received on 10/26/2022 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C

PCBs

Method 8082A: The laboratory spikes Matrix Spike and Matrix Spike Duplicate (MS / MSD) samples with AR1016 and AR1260. The percent recoveries for the MS and MSD are calculated using only the AR1016 and AR1260 calibrations. Due to the presence of AR1248 in the sample, the percent recovery for AR1016 and AR1260 spike may be biased high.

Method 8082A: The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: CM-CS-G3-629-628-221024 (240-175313-3). The samples have been quantified and reported using the best overall Aroclor/standard pattern match relative to the reference standards.

Method 8082A: The following samples required a dilution due to the abundance of target Aroclors: CM-CS-G3-629-628-221024 (240-175313-3), CM-CS-G3-629-628-221024 (240-175313-3[MS]) and CM-CS-G3-629-628-221024 (240-175313-3[MSD]). Because of this dilution, the surrogate spike concentration in the samples was reduced to a level where the recovery calculation does not provide useful information.

Method 8082A: The following samples were diluted due to abundance of target analytes: CM-CS-G3-629-628-221024 (240-175313-3), CM-CS-G4-629-628--221024 (240-175313-5) and CM-CS-G4-628-627-221024 (240-175313-6). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8082A: The following MS/MSD were diluted due to abundance of target analytes.: CM-CS-G3-629-628-221024 (240-175313-3[MS]) and CM-CS-G3-629-628-221024 (240-175313-3[MSD]). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAN
Moisture	Percent Moisture	EPA	EET CAN
3546	Microwave Extraction	SW846	EET CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-175313-1	CM-CS-G2-629-628-221024	Solid	10/24/22 13:19	10/26/22 09:45
240-175313-2	CM-CS-G2-628-627-221024	Solid	10/24/22 13:19	10/26/22 09:45
240-175313-3	CM-CS-G3-629-628-221024	Solid	10/24/22 13:30	10/26/22 09:45
240-175313-4	CM-CS-G3-628-627-221024	Solid	10/24/22 13:30	10/26/22 09:45
240-175313-5	CM-CS-G4-629-628--221024	Solid	10/24/22 13:43	10/26/22 09:45
240-175313-6	CM-CS-G4-628-627-221024	Solid	10/24/22 13:43	10/26/22 09:45
240-175313-7	CM-CS-DUP01-221024	Solid	10/24/22 13:43	10/26/22 09:45

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Client Sample ID: CM-CS-G2-629-628-221024

Lab Sample ID: 240-175313-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	3800		1100	430	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	8500		1100	470	ug/Kg	20	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	12000		1100	680	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-G2-628-627-221024

Lab Sample ID: 240-175313-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	590	J	660	250	ug/Kg	10	✱	8082A	Total/NA
Aroclor-1254	1900		660	280	ug/Kg	10	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	2500		660	390	ug/Kg	10	✱	8082A	Total/NA

Client Sample ID: CM-CS-G3-629-628-221024

Lab Sample ID: 240-175313-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	250000		60000	21000	ug/Kg	1000	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	250000		60000	36000	ug/Kg	1000	✱	8082A	Total/NA

Client Sample ID: CM-CS-G3-628-627-221024

Lab Sample ID: 240-175313-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	3600		1200	470	ug/Kg	20	✱	8082A	Total/NA
Aroclor-1254	8100		1200	520	ug/Kg	20	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	12000		1200	750	ug/Kg	20	✱	8082A	Total/NA

Client Sample ID: CM-CS-G4-629-628--221024

Lab Sample ID: 240-175313-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	9100		2900	1100	ug/Kg	50	✱	8082A	Total/NA
Aroclor-1254	18000		2900	1200	ug/Kg	50	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	27000		2900	1800	ug/Kg	50	✱	8082A	Total/NA

Client Sample ID: CM-CS-G4-628-627-221024

Lab Sample ID: 240-175313-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	15000		3000	1100	ug/Kg	50	✱	8082A	Total/NA
Aroclor-1254	16000		3000	1300	ug/Kg	50	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	31000		3000	1800	ug/Kg	50	✱	8082A	Total/NA

Client Sample ID: CM-CS-DUP01-221024

Lab Sample ID: 240-175313-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	3100		640	240	ug/Kg	10	✱	8082A	Total/NA
Aroclor-1254	5800		640	270	ug/Kg	10	✱	8082A	Total/NA
Polychlorinated biphenyls, Total	8900		640	380	ug/Kg	10	✱	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Client Sample ID: CM-CS-G2-629-628-221024

Lab Sample ID: 240-175313-1

Date Collected: 10/24/22 13:19

Matrix: Solid

Date Received: 10/26/22 09:45

Percent Solids: 85.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1100		1100	560	ug/Kg	✱	10/27/22 08:24	10/27/22 22:53	20
Aroclor-1221	<1100		1100	680	ug/Kg	✱	10/27/22 08:24	10/27/22 22:53	20
Aroclor-1232	<1100		1100	470	ug/Kg	✱	10/27/22 08:24	10/27/22 22:53	20
Aroclor-1242	3800		1100	430	ug/Kg	✱	10/27/22 08:24	10/27/22 22:53	20
Aroclor-1248	<1100		1100	380	ug/Kg	✱	10/27/22 08:24	10/27/22 22:53	20
Aroclor-1254	8500		1100	470	ug/Kg	✱	10/27/22 08:24	10/27/22 22:53	20
Aroclor-1260	<1100		1100	470	ug/Kg	✱	10/27/22 08:24	10/27/22 22:53	20
Aroclor-1262	<1100		1100	500	ug/Kg	✱	10/27/22 08:24	10/27/22 22:53	20
Aroclor-1268	<1100		1100	360	ug/Kg	✱	10/27/22 08:24	10/27/22 22:53	20
Polychlorinated biphenyls, Total	12000		1100	680	ug/Kg	✱	10/27/22 08:24	10/27/22 22:53	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	31		10 - 149	10/27/22 08:24	10/27/22 22:53	20
DCB Decachlorobiphenyl	42	p	10 - 174	10/27/22 08:24	10/27/22 22:53	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	85.4		0.1	0.1	%			10/26/22 11:19	1
Percent Moisture (EPA Moisture)	14.6		0.1	0.1	%			10/26/22 11:19	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Client Sample ID: CM-CS-G2-628-627-221024

Lab Sample ID: 240-175313-2

Date Collected: 10/24/22 13:19

Matrix: Solid

Date Received: 10/26/22 09:45

Percent Solids: 77.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<660		660	330	ug/Kg	✱	10/27/22 08:24	10/27/22 23:08	10
Aroclor-1221	<660		660	390	ug/Kg	✱	10/27/22 08:24	10/27/22 23:08	10
Aroclor-1232	<660		660	280	ug/Kg	✱	10/27/22 08:24	10/27/22 23:08	10
Aroclor-1242	590	J	660	250	ug/Kg	✱	10/27/22 08:24	10/27/22 23:08	10
Aroclor-1248	<660		660	220	ug/Kg	✱	10/27/22 08:24	10/27/22 23:08	10
Aroclor-1254	1900		660	280	ug/Kg	✱	10/27/22 08:24	10/27/22 23:08	10
Aroclor-1260	<660		660	280	ug/Kg	✱	10/27/22 08:24	10/27/22 23:08	10
Aroclor-1262	<660		660	290	ug/Kg	✱	10/27/22 08:24	10/27/22 23:08	10
Aroclor-1268	<660		660	210	ug/Kg	✱	10/27/22 08:24	10/27/22 23:08	10
Polychlorinated biphenyls, Total	2500		660	390	ug/Kg	✱	10/27/22 08:24	10/27/22 23:08	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	46		10 - 149	10/27/22 08:24	10/27/22 23:08	10
DCB Decachlorobiphenyl	47	p	10 - 174	10/27/22 08:24	10/27/22 23:08	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	77.2		0.1	0.1	%			10/26/22 11:19	1
Percent Moisture (EPA Moisture)	22.8		0.1	0.1	%			10/26/22 11:19	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Client Sample ID: CM-CS-G3-629-628-221024

Lab Sample ID: 240-175313-3

Date Collected: 10/24/22 13:30

Matrix: Solid

Date Received: 10/26/22 09:45

Percent Solids: 82.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<60000		60000	30000	ug/Kg	✱	10/27/22 08:24	10/27/22 23:24	1000
Aroclor-1221	<60000		60000	36000	ug/Kg	✱	10/27/22 08:24	10/27/22 23:24	1000
Aroclor-1232	<60000		60000	25000	ug/Kg	✱	10/27/22 08:24	10/27/22 23:24	1000
Aroclor-1242	<60000		60000	23000	ug/Kg	✱	10/27/22 08:24	10/27/22 23:24	1000
Aroclor-1248	250000		60000	21000	ug/Kg	✱	10/27/22 08:24	10/27/22 23:24	1000
Aroclor-1254	<60000		60000	25000	ug/Kg	✱	10/27/22 08:24	10/27/22 23:24	1000
Aroclor-1260	<60000		60000	25000	ug/Kg	✱	10/27/22 08:24	10/27/22 23:24	1000
Aroclor-1262	<60000		60000	27000	ug/Kg	✱	10/27/22 08:24	10/27/22 23:24	1000
Aroclor-1268	<60000		60000	19000	ug/Kg	✱	10/27/22 08:24	10/27/22 23:24	1000
Polychlorinated biphenyls, Total	250000		60000	36000	ug/Kg	✱	10/27/22 08:24	10/27/22 23:24	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	S1-	10 - 149	10/27/22 08:24	10/27/22 23:24	1000
DCB Decachlorobiphenyl	0	S1-	10 - 174	10/27/22 08:24	10/27/22 23:24	1000

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	82.0		0.1	0.1	%			10/26/22 11:19	1
Percent Moisture (EPA Moisture)	18.0		0.1	0.1	%			10/26/22 11:19	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Client Sample ID: CM-CS-G3-628-627-221024

Lab Sample ID: 240-175313-4

Date Collected: 10/24/22 13:30

Matrix: Solid

Date Received: 10/26/22 09:45

Percent Solids: 82.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200		1200	620	ug/Kg	✱	10/27/22 08:24	10/28/22 00:12	20
Aroclor-1221	<1200		1200	750	ug/Kg	✱	10/27/22 08:24	10/28/22 00:12	20
Aroclor-1232	<1200		1200	520	ug/Kg	✱	10/27/22 08:24	10/28/22 00:12	20
Aroclor-1242	3600		1200	470	ug/Kg	✱	10/27/22 08:24	10/28/22 00:12	20
Aroclor-1248	<1200		1200	420	ug/Kg	✱	10/27/22 08:24	10/28/22 00:12	20
Aroclor-1254	8100		1200	520	ug/Kg	✱	10/27/22 08:24	10/28/22 00:12	20
Aroclor-1260	<1200		1200	520	ug/Kg	✱	10/27/22 08:24	10/28/22 00:12	20
Aroclor-1262	<1200		1200	550	ug/Kg	✱	10/27/22 08:24	10/28/22 00:12	20
Aroclor-1268	<1200		1200	400	ug/Kg	✱	10/27/22 08:24	10/28/22 00:12	20
Polychlorinated biphenyls, Total	12000		1200	750	ug/Kg	✱	10/27/22 08:24	10/28/22 00:12	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	48		10 - 149	10/27/22 08:24	10/28/22 00:12	20
DCB Decachlorobiphenyl	56	p	10 - 174	10/27/22 08:24	10/28/22 00:12	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	82.7		0.1	0.1	%			10/26/22 11:19	1
Percent Moisture (EPA Moisture)	17.3		0.1	0.1	%			10/26/22 11:19	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Client Sample ID: CM-CS-G4-629-628--221024

Lab Sample ID: 240-175313-5

Date Collected: 10/24/22 13:43

Matrix: Solid

Date Received: 10/26/22 09:45

Percent Solids: 82.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<2900		2900	1500	ug/Kg	✱	10/27/22 08:24	10/28/22 00:27	50
Aroclor-1221	<2900		2900	1800	ug/Kg	✱	10/27/22 08:24	10/28/22 00:27	50
Aroclor-1232	<2900		2900	1200	ug/Kg	✱	10/27/22 08:24	10/28/22 00:27	50
Aroclor-1242	9100		2900	1100	ug/Kg	✱	10/27/22 08:24	10/28/22 00:27	50
Aroclor-1248	<2900		2900	1000	ug/Kg	✱	10/27/22 08:24	10/28/22 00:27	50
Aroclor-1254	18000		2900	1200	ug/Kg	✱	10/27/22 08:24	10/28/22 00:27	50
Aroclor-1260	<2900		2900	1200	ug/Kg	✱	10/27/22 08:24	10/28/22 00:27	50
Aroclor-1262	<2900		2900	1300	ug/Kg	✱	10/27/22 08:24	10/28/22 00:27	50
Aroclor-1268	<2900		2900	940	ug/Kg	✱	10/27/22 08:24	10/28/22 00:27	50
Polychlorinated biphenyls, Total	27000		2900	1800	ug/Kg	✱	10/27/22 08:24	10/28/22 00:27	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	S1-	10 - 149	10/27/22 08:24	10/28/22 00:27	50
DCB Decachlorobiphenyl	0	S1-	10 - 174	10/27/22 08:24	10/28/22 00:27	50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	82.5		0.1	0.1	%			10/26/22 11:19	1
Percent Moisture (EPA Moisture)	17.5		0.1	0.1	%			10/26/22 11:19	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Client Sample ID: CM-CS-G4-628-627-221024

Lab Sample ID: 240-175313-6

Date Collected: 10/24/22 13:43

Matrix: Solid

Date Received: 10/26/22 09:45

Percent Solids: 81.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<3000		3000	1500	ug/Kg	✱	10/27/22 08:24	10/28/22 00:43	50
Aroclor-1221	<3000		3000	1800	ug/Kg	✱	10/27/22 08:24	10/28/22 00:43	50
Aroclor-1232	<3000		3000	1300	ug/Kg	✱	10/27/22 08:24	10/28/22 00:43	50
Aroclor-1242	15000		3000	1100	ug/Kg	✱	10/27/22 08:24	10/28/22 00:43	50
Aroclor-1248	<3000		3000	1000	ug/Kg	✱	10/27/22 08:24	10/28/22 00:43	50
Aroclor-1254	16000		3000	1300	ug/Kg	✱	10/27/22 08:24	10/28/22 00:43	50
Aroclor-1260	<3000		3000	1300	ug/Kg	✱	10/27/22 08:24	10/28/22 00:43	50
Aroclor-1262	<3000		3000	1300	ug/Kg	✱	10/27/22 08:24	10/28/22 00:43	50
Aroclor-1268	<3000		3000	970	ug/Kg	✱	10/27/22 08:24	10/28/22 00:43	50
Polychlorinated biphenyls, Total	31000		3000	1800	ug/Kg	✱	10/27/22 08:24	10/28/22 00:43	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	S1-	10 - 149	10/27/22 08:24	10/28/22 00:43	50
DCB Decachlorobiphenyl	0	S1-	10 - 174	10/27/22 08:24	10/28/22 00:43	50

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	81.5		0.1	0.1	%			10/26/22 11:19	1
Percent Moisture (EPA Moisture)	18.5		0.1	0.1	%			10/26/22 11:19	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Client Sample ID: CM-CS-DUP01-221024

Lab Sample ID: 240-175313-7

Date Collected: 10/24/22 13:43

Matrix: Solid

Date Received: 10/26/22 09:45

Percent Solids: 79.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<640		640	320	ug/Kg	☼	10/27/22 08:24	10/28/22 00:59	10
Aroclor-1221	<640		640	380	ug/Kg	☼	10/27/22 08:24	10/28/22 00:59	10
Aroclor-1232	<640		640	270	ug/Kg	☼	10/27/22 08:24	10/28/22 00:59	10
Aroclor-1242	3100		640	240	ug/Kg	☼	10/27/22 08:24	10/28/22 00:59	10
Aroclor-1248	<640		640	220	ug/Kg	☼	10/27/22 08:24	10/28/22 00:59	10
Aroclor-1254	5800		640	270	ug/Kg	☼	10/27/22 08:24	10/28/22 00:59	10
Aroclor-1260	<640		640	270	ug/Kg	☼	10/27/22 08:24	10/28/22 00:59	10
Aroclor-1262	<640		640	280	ug/Kg	☼	10/27/22 08:24	10/28/22 00:59	10
Aroclor-1268	<640		640	200	ug/Kg	☼	10/27/22 08:24	10/28/22 00:59	10
Polychlorinated biphenyls, Total	8900		640	380	ug/Kg	☼	10/27/22 08:24	10/28/22 00:59	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	24		10 - 149	10/27/22 08:24	10/28/22 00:59	10
DCB Decachlorobiphenyl	12	p	10 - 174	10/27/22 08:24	10/28/22 00:59	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	79.2		0.1	0.1	%			10/26/22 11:19	1
Percent Moisture (EPA Moisture)	20.8		0.1	0.1	%			10/26/22 11:19	1

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCBP1
		(10-149)	(10-174)
240-175313-1	CM-CS-G2-629-628-221024	31	42 p
240-175313-2	CM-CS-G2-628-627-221024	46	47 p
240-175313-3	CM-CS-G3-629-628-221024	0 S1-	0 S1-
240-175313-3 MS	CM-CS-G3-629-628-221024	0 S1-	0 S1-
240-175313-3 MSD	CM-CS-G3-629-628-221024	0 S1-	0 S1-
240-175313-4	CM-CS-G3-628-627-221024	48	56 p
240-175313-5	CM-CS-G4-629-628--221024	0 S1-	0 S1-
240-175313-6	CM-CS-G4-628-627-221024	0 S1-	0 S1-
240-175313-7	CM-CS-DUP01-221024	24	12 p
LCS 240-548986/2-A	Lab Control Sample	96	71
MB 240-548986/1-A	Method Blank	97	93

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-548986/1-A

Matrix: Solid

Analysis Batch: 549151

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 548986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<50		50	25	ug/Kg		10/27/22 08:24	10/27/22 22:21	1
Aroclor-1221	<50		50	30	ug/Kg		10/27/22 08:24	10/27/22 22:21	1
Aroclor-1232	<50		50	21	ug/Kg		10/27/22 08:24	10/27/22 22:21	1
Aroclor-1242	<50		50	19	ug/Kg		10/27/22 08:24	10/27/22 22:21	1
Aroclor-1248	<50		50	17	ug/Kg		10/27/22 08:24	10/27/22 22:21	1
Aroclor-1254	<50		50	21	ug/Kg		10/27/22 08:24	10/27/22 22:21	1
Aroclor-1260	<50		50	21	ug/Kg		10/27/22 08:24	10/27/22 22:21	1
Aroclor-1262	<50		50	22	ug/Kg		10/27/22 08:24	10/27/22 22:21	1
Aroclor-1268	<50		50	16	ug/Kg		10/27/22 08:24	10/27/22 22:21	1
Polychlorinated biphenyls, Total	<50		50	30	ug/Kg		10/27/22 08:24	10/27/22 22:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97		10 - 149	10/27/22 08:24	10/27/22 22:21	1
DCB Decachlorobiphenyl	93		10 - 174	10/27/22 08:24	10/27/22 22:21	1

Lab Sample ID: LCS 240-548986/2-A

Matrix: Solid

Analysis Batch: 549151

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 548986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	1000	767		ug/Kg		77	28 - 140
Aroclor-1260	1000	675		ug/Kg		67	39 - 153

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	96		10 - 149
DCB Decachlorobiphenyl	71		10 - 174

Lab Sample ID: 240-175313-3 MS

Matrix: Solid

Analysis Batch: 549151

Client Sample ID: CM-CS-G3-629-628-221024

Prep Type: Total/NA

Prep Batch: 548986

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	<60000		1200	<60000		ug/Kg	☼	NC	10 - 146
Aroclor-1260	<60000		1200	<60000		ug/Kg	☼	NC	10 - 158

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	0	S1-	10 - 149
DCB Decachlorobiphenyl	0	S1-	10 - 174

Lab Sample ID: 240-175313-3 MSD

Matrix: Solid

Analysis Batch: 549151

Client Sample ID: CM-CS-G3-629-628-221024

Prep Type: Total/NA

Prep Batch: 548986

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	<60000		1240	<62000		ug/Kg	☼	NC	10 - 146	NC	40
Aroclor-1260	<60000		1240	<62000		ug/Kg	☼	NC	10 - 158	NC	40

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 240-175313-3 MSD

Matrix: Solid

Analysis Batch: 549151

Client Sample ID: CM-CS-G3-629-628-221024

Prep Type: Total/NA

Prep Batch: 548986

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro- <i>m</i> -xylene	0	S1-	10 - 149
DCB Decachlorobiphenyl	0	S1-	10 - 174

Method: Moisture - Percent Moisture

Lab Sample ID: 240-175313-3 DU

Matrix: Solid

Analysis Batch: 548844

Client Sample ID: CM-CS-G3-629-628-221024

Prep Type: Total/NA

	Sample	Sample	DU	DU					RPD	RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D			RPD	Limit
Percent Solids	82.0		82.9		%				1	20
Percent Moisture	18.0		17.1		%				5	20

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

GC Semi VOA

Prep Batch: 548986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175313-1	CM-CS-G2-629-628-221024	Total/NA	Solid	3546	
240-175313-2	CM-CS-G2-628-627-221024	Total/NA	Solid	3546	
240-175313-3	CM-CS-G3-629-628-221024	Total/NA	Solid	3546	
240-175313-4	CM-CS-G3-628-627-221024	Total/NA	Solid	3546	
240-175313-5	CM-CS-G4-629-628--221024	Total/NA	Solid	3546	
240-175313-6	CM-CS-G4-628-627-221024	Total/NA	Solid	3546	
240-175313-7	CM-CS-DUP01-221024	Total/NA	Solid	3546	
MB 240-548986/1-A	Method Blank	Total/NA	Solid	3546	
LCS 240-548986/2-A	Lab Control Sample	Total/NA	Solid	3546	
240-175313-3 MS	CM-CS-G3-629-628-221024	Total/NA	Solid	3546	
240-175313-3 MSD	CM-CS-G3-629-628-221024	Total/NA	Solid	3546	

Analysis Batch: 549151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175313-1	CM-CS-G2-629-628-221024	Total/NA	Solid	8082A	548986
240-175313-2	CM-CS-G2-628-627-221024	Total/NA	Solid	8082A	548986
240-175313-3	CM-CS-G3-629-628-221024	Total/NA	Solid	8082A	548986
240-175313-4	CM-CS-G3-628-627-221024	Total/NA	Solid	8082A	548986
240-175313-5	CM-CS-G4-629-628--221024	Total/NA	Solid	8082A	548986
240-175313-6	CM-CS-G4-628-627-221024	Total/NA	Solid	8082A	548986
240-175313-7	CM-CS-DUP01-221024	Total/NA	Solid	8082A	548986
MB 240-548986/1-A	Method Blank	Total/NA	Solid	8082A	548986
LCS 240-548986/2-A	Lab Control Sample	Total/NA	Solid	8082A	548986
240-175313-3 MS	CM-CS-G3-629-628-221024	Total/NA	Solid	8082A	548986
240-175313-3 MSD	CM-CS-G3-629-628-221024	Total/NA	Solid	8082A	548986

General Chemistry

Analysis Batch: 548844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175313-1	CM-CS-G2-629-628-221024	Total/NA	Solid	Moisture	
240-175313-2	CM-CS-G2-628-627-221024	Total/NA	Solid	Moisture	
240-175313-3	CM-CS-G3-629-628-221024	Total/NA	Solid	Moisture	
240-175313-4	CM-CS-G3-628-627-221024	Total/NA	Solid	Moisture	
240-175313-5	CM-CS-G4-629-628--221024	Total/NA	Solid	Moisture	
240-175313-6	CM-CS-G4-628-627-221024	Total/NA	Solid	Moisture	
240-175313-7	CM-CS-DUP01-221024	Total/NA	Solid	Moisture	
240-175313-3 DU	CM-CS-G3-629-628-221024	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Client Sample ID: CM-CS-G2-629-628-221024

Lab Sample ID: 240-175313-1

Date Collected: 10/24/22 13:19

Matrix: Solid

Date Received: 10/26/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548844	MED	EET CAN	10/26/22 11:19

Client Sample ID: CM-CS-G2-629-628-221024

Lab Sample ID: 240-175313-1

Date Collected: 10/24/22 13:19

Matrix: Solid

Date Received: 10/26/22 09:45

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548986	AJ	EET CAN	10/27/22 08:24
Total/NA	Analysis	8082A		20	549151	MBB	EET CAN	10/27/22 22:53

Client Sample ID: CM-CS-G2-628-627-221024

Lab Sample ID: 240-175313-2

Date Collected: 10/24/22 13:19

Matrix: Solid

Date Received: 10/26/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548844	MED	EET CAN	10/26/22 11:19

Client Sample ID: CM-CS-G2-628-627-221024

Lab Sample ID: 240-175313-2

Date Collected: 10/24/22 13:19

Matrix: Solid

Date Received: 10/26/22 09:45

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548986	AJ	EET CAN	10/27/22 08:24
Total/NA	Analysis	8082A		10	549151	MBB	EET CAN	10/27/22 23:08

Client Sample ID: CM-CS-G3-629-628-221024

Lab Sample ID: 240-175313-3

Date Collected: 10/24/22 13:30

Matrix: Solid

Date Received: 10/26/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548844	MED	EET CAN	10/26/22 11:19

Client Sample ID: CM-CS-G3-629-628-221024

Lab Sample ID: 240-175313-3

Date Collected: 10/24/22 13:30

Matrix: Solid

Date Received: 10/26/22 09:45

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548986	AJ	EET CAN	10/27/22 08:24
Total/NA	Analysis	8082A		1000	549151	MBB	EET CAN	10/27/22 23:24

Client Sample ID: CM-CS-G3-628-627-221024

Lab Sample ID: 240-175313-4

Date Collected: 10/24/22 13:30

Matrix: Solid

Date Received: 10/26/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548844	MED	EET CAN	10/26/22 11:19

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Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Client Sample ID: CM-CS-G3-628-627-221024

Lab Sample ID: 240-175313-4

Date Collected: 10/24/22 13:30

Matrix: Solid

Date Received: 10/26/22 09:45

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548986	AJ	EET CAN	10/27/22 08:24
Total/NA	Analysis	8082A		20	549151	MBB	EET CAN	10/28/22 00:12

Client Sample ID: CM-CS-G4-629-628--221024

Lab Sample ID: 240-175313-5

Date Collected: 10/24/22 13:43

Matrix: Solid

Date Received: 10/26/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548844	MED	EET CAN	10/26/22 11:19

Client Sample ID: CM-CS-G4-629-628--221024

Lab Sample ID: 240-175313-5

Date Collected: 10/24/22 13:43

Matrix: Solid

Date Received: 10/26/22 09:45

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548986	AJ	EET CAN	10/27/22 08:24
Total/NA	Analysis	8082A		50	549151	MBB	EET CAN	10/28/22 00:27

Client Sample ID: CM-CS-G4-628-627-221024

Lab Sample ID: 240-175313-6

Date Collected: 10/24/22 13:43

Matrix: Solid

Date Received: 10/26/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548844	MED	EET CAN	10/26/22 11:19

Client Sample ID: CM-CS-G4-628-627-221024

Lab Sample ID: 240-175313-6

Date Collected: 10/24/22 13:43

Matrix: Solid

Date Received: 10/26/22 09:45

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548986	AJ	EET CAN	10/27/22 08:24
Total/NA	Analysis	8082A		50	549151	MBB	EET CAN	10/28/22 00:43

Client Sample ID: CM-CS-DUP01-221024

Lab Sample ID: 240-175313-7

Date Collected: 10/24/22 13:43

Matrix: Solid

Date Received: 10/26/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	548844	MED	EET CAN	10/26/22 11:19

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Client Sample ID: CM-CS-DUP01-221024

Lab Sample ID: 240-175313-7

Date Collected: 10/24/22 13:43

Matrix: Solid

Date Received: 10/26/22 09:45

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			548986	AJ	EET CAN	10/27/22 08:24
Total/NA	Analysis	8082A		10	549151	MBB	EET CAN	10/28/22 00:59

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175313-1

Laboratory: Eurofins Canton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200004	07-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3546	Solid	Aroclor-1262
8082A	3546	Solid	Aroclor-1268
8082A	3546	Solid	Polychlorinated biphenyls, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Minnesota	NELAP	039-999-348	12-31-22
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3546	Solid	Polychlorinated biphenyls, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Eurofins - Canton Sample Receipt Form/Narrative
Barberton Facility

Login # : 7533

Client <u>Tetra tech</u>		Site Name _____		Cooler unpacked by: <u>Brandon</u>	
Cooler Received on <u>10-26-22</u>		Opened on <u>10-26-22</u>			
FedEx: 1 st Grd <input checked="" type="checkbox"/> Exp <input type="checkbox"/> UPS <input type="checkbox"/> FAS <input type="checkbox"/> Clipper <input type="checkbox"/> Client Drop Off <input type="checkbox"/> Eurofins Courier <input type="checkbox"/> Other <input type="checkbox"/>					
Receipt After-hours: Drop-off Date/Time _____				Storage Location _____	
Eurofins Cooler # <u>7A</u>		Foam Box <input type="checkbox"/> Client Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/>			
Packing material used: <u>Bubble Wrap</u> <input checked="" type="checkbox"/> Foam <input type="checkbox"/> Plastic Bag <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/>					
COOLANT: <u>Wet Ice</u> <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Water <input type="checkbox"/> None <input type="checkbox"/>					
1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form					
IR GUN# IR-13 (CF +0.7 °C)		Observed Cooler Temp. _____ °C		Corrected Cooler Temp. _____ °C	
IR GUN# IR-15 (CF 0.0 °C)		Observed Cooler Temp. <u>1.9</u> °C		Corrected Cooler Temp. <u>1.9</u> °C	
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____				Yes No	
-Were the seals on the outside of the cooler(s) signed & dated?				Yes No NA	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?				Yes No NA	
-Were tamper/custody seals intact and uncompromised?				Yes No NA	
3. Shippers' packing slip attached to the cooler(s)?				Yes No	
4. Did custody papers accompany the sample(s)?				Yes No	
5. Were the custody papers relinquished & signed in the appropriate place?				Yes No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?				Yes No	
7. Did all bottles arrive in good condition (Unbroken)?				Yes No	
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?				Yes No	
9. For each sample, does the COC specify preservatives (Y/N) # of containers (Y/N), and sample type of grab/comp (Y/N)?				Yes No	
10. Were correct bottle(s) used for the test(s) indicated?				Yes No	
11. Sufficient quantity received to perform indicated analyses?				Yes No	
12. Are these work share samples and all listed on the COC?				Yes No	
If yes, Questions 13-17 have been checked at the originating laboratory.					
13. Were all preserved sample(s) at the correct pH upon receipt?				Yes No NA pH Strip Lot# <u>HC286797</u>	
14. Were VOAs on the COC?				Yes No	
15. Were air bubbles >6 mm in any VOA vials? <input checked="" type="checkbox"/> Larger than this.				Yes No NA	
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____				Yes No	
17. Was a LL Hg or Me Hg trip blank present? _____				Yes No	
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____					
Concerning _____					

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES <input type="checkbox"/> additional next page		Samples processed by: _____
_____ _____ _____ _____		
19. SAMPLE CONDITION		
Sample(s) _____ were received after the recommended holding time had expired.		
Sample(s) _____ were received in a broken container.		
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)		
20. SAMPLE PRESERVATION		
Sample(s) _____ were further preserved in the laboratory.		
Time preserved: _____ Preservative(s) added/Lot number(s): _____		
VOA Sample Preservation - Date/Time VOAs Frozen: _____		

WT-NC-099



Environment Testing

ANALYTICAL REPORT

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-175429-1
Client Project/Site: Chudnow Metals

For:

Tetra Tech EM Inc.
1 South Wacker Drive 37 Floor
Ste. 3700
Chicago, Illinois 60606

Attn: Rachel Houle

Authorized for release by:
10/31/2022 5:40:33 PM

Jim Knapp, Project Manager II
(630)758-0262

Jim.Knapp@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175429-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175429-1

Job ID: 240-175429-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-175429-1

Receipt

The samples were received on 10/28/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

PCBs

Method 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: CM-CS-F2-629-628-221021 (240-175429-1), CM-CS-F2-628-627-221021 (240-175429-2), (240-175302-B-1-A), (240-175302-B-1-B MS) and (240-175302-B-1-C MSD).

Method 8082A: The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: CM-CS-F2-629-628-221021 (240-175429-1) and CM-CS-F2-628-627-221021 (240-175429-2). The samples have been quantified and reported using the best overall Aroclor/standard pattern match relative to the reference standards.

Method 8082A: The continuing calibration verification (CCV) associated with batch 240-549405 recovered above the upper control limit for AR1268. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: CM-CS-F2-629-628-221021 (240-175429-1), CM-CS-F2-628-627-221021 (240-175429-2), (LCS 240-549220/2-A), (MB 240-549220/1-A), (240-175302-B-1-A), (240-175302-B-1-B MS) and (240-175302-B-1-C MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175429-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAN
Moisture	Percent Moisture	EPA	EET CAN
3546	Microwave Extraction	SW846	EET CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175429-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-175429-1	CM-CS-F2-629-628-221021	Solid	10/21/22 09:25	10/28/22 08:00
240-175429-2	CM-CS-F2-628-627-221021	Solid	10/21/22 09:25	10/28/22 08:00

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Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175429-1

Client Sample ID: CM-CS-F2-629-628-221021

Lab Sample ID: 240-175429-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor-1242	6500		1200	440	ug/Kg	20		✱	8082A	Total/NA
Aroclor-1254	9900		1200	490	ug/Kg	20		✱	8082A	Total/NA
Polychlorinated biphenyls, Total	16000		1200	700	ug/Kg	20		✱	8082A	Total/NA

Client Sample ID: CM-CS-F2-628-627-221021

Lab Sample ID: 240-175429-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor-1242	1500		630	240	ug/Kg	10		✱	8082A	Total/NA
Aroclor-1254	2100		630	270	ug/Kg	10		✱	8082A	Total/NA
Polychlorinated biphenyls, Total	3600		630	380	ug/Kg	10		✱	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175429-1

Client Sample ID: CM-CS-F2-629-628-221021

Lab Sample ID: 240-175429-1

Date Collected: 10/21/22 09:25

Matrix: Solid

Date Received: 10/28/22 08:00

Percent Solids: 86.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<1200		1200	580	ug/Kg	✱	10/28/22 08:52	10/29/22 19:01	20
Aroclor-1221	<1200		1200	700	ug/Kg	✱	10/28/22 08:52	10/29/22 19:01	20
Aroclor-1232	<1200		1200	490	ug/Kg	✱	10/28/22 08:52	10/29/22 19:01	20
Aroclor-1242	6500		1200	440	ug/Kg	✱	10/28/22 08:52	10/29/22 19:01	20
Aroclor-1248	<1200		1200	400	ug/Kg	✱	10/28/22 08:52	10/29/22 19:01	20
Aroclor-1254	9900		1200	490	ug/Kg	✱	10/28/22 08:52	10/29/22 19:01	20
Aroclor-1260	<1200		1200	490	ug/Kg	✱	10/28/22 08:52	10/29/22 19:01	20
Aroclor-1262	<1200		1200	510	ug/Kg	✱	10/28/22 08:52	10/29/22 19:01	20
Aroclor-1268	<1200		1200	370	ug/Kg	✱	10/28/22 08:52	10/29/22 19:01	20
Polychlorinated biphenyls, Total	16000		1200	700	ug/Kg	✱	10/28/22 08:52	10/29/22 19:01	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	29		10 - 149	10/28/22 08:52	10/29/22 19:01	20
DCB Decachlorobiphenyl	59		10 - 174	10/28/22 08:52	10/29/22 19:01	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	86.5		0.1	0.1	%			10/28/22 11:12	1
Percent Moisture (EPA Moisture)	13.5		0.1	0.1	%			10/28/22 11:12	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175429-1

Client Sample ID: CM-CS-F2-628-627-221021

Lab Sample ID: 240-175429-2

Date Collected: 10/21/22 09:25

Matrix: Solid

Date Received: 10/28/22 08:00

Percent Solids: 83.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<630		630	320	ug/Kg	✱	10/28/22 08:52	10/29/22 19:17	10
Aroclor-1221	<630		630	380	ug/Kg	✱	10/28/22 08:52	10/29/22 19:17	10
Aroclor-1232	<630		630	270	ug/Kg	✱	10/28/22 08:52	10/29/22 19:17	10
Aroclor-1242	1500		630	240	ug/Kg	✱	10/28/22 08:52	10/29/22 19:17	10
Aroclor-1248	<630		630	210	ug/Kg	✱	10/28/22 08:52	10/29/22 19:17	10
Aroclor-1254	2100		630	270	ug/Kg	✱	10/28/22 08:52	10/29/22 19:17	10
Aroclor-1260	<630		630	270	ug/Kg	✱	10/28/22 08:52	10/29/22 19:17	10
Aroclor-1262	<630		630	280	ug/Kg	✱	10/28/22 08:52	10/29/22 19:17	10
Aroclor-1268	<630		630	200	ug/Kg	✱	10/28/22 08:52	10/29/22 19:17	10
Polychlorinated biphenyls, Total	3600		630	380	ug/Kg	✱	10/28/22 08:52	10/29/22 19:17	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	51		10 - 149	10/28/22 08:52	10/29/22 19:17	10
DCB Decachlorobiphenyl	160		10 - 174	10/28/22 08:52	10/29/22 19:17	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	83.0		0.1	0.1	%			10/28/22 11:12	1
Percent Moisture (EPA Moisture)	17.0		0.1	0.1	%			10/28/22 11:12	1

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175429-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2	DCBP2
		(10-149)	(10-174)
240-175429-1	CM-CS-F2-629-628-221021	29	59
240-175429-2	CM-CS-F2-628-627-221021	51	160
LCS 240-549220/2-A	Lab Control Sample	104	137
MB 240-549220/1-A	Method Blank	110	128
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCBP = DCB Decachlorobiphenyl			

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175429-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-549220/1-A

Matrix: Solid

Analysis Batch: 549405

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 549220

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<50		50	25	ug/Kg		10/28/22 08:52	10/29/22 17:42	1
Aroclor-1221	<50		50	30	ug/Kg		10/28/22 08:52	10/29/22 17:42	1
Aroclor-1232	<50		50	21	ug/Kg		10/28/22 08:52	10/29/22 17:42	1
Aroclor-1242	<50		50	19	ug/Kg		10/28/22 08:52	10/29/22 17:42	1
Aroclor-1248	<50		50	17	ug/Kg		10/28/22 08:52	10/29/22 17:42	1
Aroclor-1254	<50		50	21	ug/Kg		10/28/22 08:52	10/29/22 17:42	1
Aroclor-1260	<50		50	21	ug/Kg		10/28/22 08:52	10/29/22 17:42	1
Aroclor-1262	<50		50	22	ug/Kg		10/28/22 08:52	10/29/22 17:42	1
Aroclor-1268	<50		50	16	ug/Kg		10/28/22 08:52	10/29/22 17:42	1
Polychlorinated biphenyls, Total	<50		50	30	ug/Kg		10/28/22 08:52	10/29/22 17:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	110		10 - 149	10/28/22 08:52	10/29/22 17:42	1
DCB Decachlorobiphenyl	128		10 - 174	10/28/22 08:52	10/29/22 17:42	1

Lab Sample ID: LCS 240-549220/2-A

Matrix: Solid

Analysis Batch: 549405

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 549220

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	1000	837		ug/Kg		84	28 - 140
Aroclor-1260	1000	1120		ug/Kg		112	39 - 153

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	104		10 - 149
DCB Decachlorobiphenyl	137		10 - 174

Method: Moisture - Percent Moisture

Lab Sample ID: 240-175429-2 DU

Matrix: Solid

Analysis Batch: 549283

Client Sample ID: CM-CS-F2-628-627-221021

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	83.0		28.1	F3	%		99	20
Percent Moisture	17.0		71.9	F3	%		123	20

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175429-1

GC Semi VOA

Prep Batch: 549220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175429-1	CM-CS-F2-629-628-221021	Total/NA	Solid	3546	
240-175429-2	CM-CS-F2-628-627-221021	Total/NA	Solid	3546	
MB 240-549220/1-A	Method Blank	Total/NA	Solid	3546	
LCS 240-549220/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 549405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175429-1	CM-CS-F2-629-628-221021	Total/NA	Solid	8082A	549220
240-175429-2	CM-CS-F2-628-627-221021	Total/NA	Solid	8082A	549220
MB 240-549220/1-A	Method Blank	Total/NA	Solid	8082A	549220
LCS 240-549220/2-A	Lab Control Sample	Total/NA	Solid	8082A	549220

General Chemistry

Analysis Batch: 549283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175429-1	CM-CS-F2-629-628-221021	Total/NA	Solid	Moisture	
240-175429-2	CM-CS-F2-628-627-221021	Total/NA	Solid	Moisture	
240-175429-2 DU	CM-CS-F2-628-627-221021	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175429-1

Client Sample ID: CM-CS-F2-629-628-221021

Lab Sample ID: 240-175429-1

Date Collected: 10/21/22 09:25

Matrix: Solid

Date Received: 10/28/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	549283	MED	EET CAN	10/28/22 11:12

Client Sample ID: CM-CS-F2-629-628-221021

Lab Sample ID: 240-175429-1

Date Collected: 10/21/22 09:25

Matrix: Solid

Date Received: 10/28/22 08:00

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			549220	AJ	EET CAN	10/28/22 08:52
Total/NA	Analysis	8082A		20	549405	MBB	EET CAN	10/29/22 19:01

Client Sample ID: CM-CS-F2-628-627-221021

Lab Sample ID: 240-175429-2

Date Collected: 10/21/22 09:25

Matrix: Solid

Date Received: 10/28/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	549283	MED	EET CAN	10/28/22 11:12

Client Sample ID: CM-CS-F2-628-627-221021

Lab Sample ID: 240-175429-2

Date Collected: 10/21/22 09:25

Matrix: Solid

Date Received: 10/28/22 08:00

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			549220	AJ	EET CAN	10/28/22 08:52
Total/NA	Analysis	8082A		10	549405	MBB	EET CAN	10/29/22 19:17

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175429-1

Laboratory: Eurofins Canton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200004	07-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3546	Solid	Aroclor-1262
8082A	3546	Solid	Aroclor-1268
8082A	3546	Solid	Polychlorinated biphenyls, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Minnesota	NELAP	039-999-348	12-31-22
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3546	Solid	Polychlorinated biphenyls, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

$$2.128$$

Client Information Client Contact: Rachel Houle Company: Tetra Tech EM Inc. Address: 1 South Wacker Drive 37 Floor Ste. 3700 City: Chicago State, Zip: IL, 60606 Phone: 312-201-7721 (Tel) Email: rachel.houle@tetratech.com Project Name: Chudnow Metals Site:		Due Date Requested: TAT Requested (days): 2 DAY/ASAP Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: 1168715/ETA-76 WO #: Project #: 24029930 SSOW#:		Sampler: Alexia Scholl Lab PM: Knapp, Jim D E-Mail: Jim.Knapp@et.eurofinsus.com State of Origin:		Carrier Tracking No(s): COC No: 240-99594-36245.5 Page: Page 5 of 6 Job #:	
Sample Identification CM-05-F2-629-028-221021 CM-08-F2-628-627-221021		Sample Date 10/21/22 10/21/22	Sample Time 0925 0925	Sample Type (C=Comp, G=grab) C C	Matrix (W=water, S=solid, O=other) BT=Tissue, A=Air Solid Solid	Preservation Code: Solid Solid	
Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)		PCB		Total Number of containers	
Special Instructions/Note:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify)		<input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:			
Empty Kit Relinquished by: Relinquished by: Alexia Scholl Relinquished by:		Date: 10/26/22		Date/Time: 10/27/22 1500 Date/Time:		Company: KENEX Company:	
Relinquished by:		Date/Time:		Date/Time:		Company:	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Eurofins - Canton Sample Receipt Form/Narrative Login # : _____
Barberton Facility


Client Tetra Tech Site Name _____ Cooler unpacked by: Rachelle Haider
Cooler Received on 10-27-22 Opened on 10-27-22
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____
Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # TA Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None _____

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
IR GUN# IR-13 (CF +0.7 °C) Observed Cooler Temp 2.1 °C Corrected Cooler Temp 2.8 °C
IR GUN# IR-15 (CF 0.0 °C) Observed Cooler Temp _____ °C Corrected Cooler Temp _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
- Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
- Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
- Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC286797
14. Were VOAs on the COC? Yes No NA
15. Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page Samples processed by: _____

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____
VOA Sample Preservation - Date/Time VOAs Frozen: _____

WT-NC-099

ATTACHMENT 4

**CONFIRMATION SOIL SAMPLING ANALYTICAL REPORTS – PCBs, 627: JD54305,
JD54372, JD54536, JD54553, JD54598, JD54732, JD54806, JD54892, JD55122**

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech, Inc.

R5 START: Chudnow Metals Site- Milwaukee, WI

103X90310032000DH108

SGS Job Number: JD54305

Sampling Date: 10/24/22

Report to:

kelly.ramos@sgs.com
ALEXIA.SCHÖLL@tetratech.com
Rachel.Houle@tetratech.com
Rindy.Mortensen@tetratech.com
TAYLOR.COOPER@tetratech.com;STARTVDataValidation@tetratech.com;Bruce.We
ATTN: Distribution4

Total number of pages in report: 7



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Tetra Tech, Inc.

Job No: JD54305

R5 START: Chudnow Metals Site- Milwaukee, WI

Project No: 103X90310032000DH108

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

JD54305-1	10/24/22	11:36 AS	10/25/22	SO Soil	CM-CS-D4-627-221024
JD54305-2	10/24/22	09:31 AS	10/25/22	SO Soil	CM-CS-E4-627-221024
JD54305-3	10/24/22	07:39 AS	10/25/22	SO Soil	CM-CS-F4-627-221024

The reported LOD and LOQ values have been adjusted for dry weight unless otherwise indicated on the results page. The reported LOD and LOQ values have been adjusted for the same dilution factor as that used for the sample result unless otherwise indicated on the results page. LOD = MDL and LOQ = RL.

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-D4-627-221024	
Lab Sample ID:	JD54305-1	Date Sampled: 10/24/22
Matrix:	SO - Soil	Date Received: 10/25/22
Method:	SW846 8082A SW846 3546	Percent Solids: 81.9
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK17709.D	1	10/27/22 08:12	RK	10/26/22 13:10	OP42717	GRK423
Run #2							

	Initial Weight	Final Volume
Run #1	16.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	17	ug/kg	
11104-28-2	Aroclor 1221	ND	37	23	ug/kg	
11141-16-5	Aroclor 1232	ND	37	24	ug/kg	
53469-21-9	Aroclor 1242	ND	37	15	ug/kg	
12672-29-6	Aroclor 1248	ND	37	33	ug/kg	
11097-69-1	Aroclor 1254	708	37	20	ug/kg	
11096-82-5	Aroclor 1260	2950	37	16	ug/kg	
11100-14-4	Aroclor 1268	ND	37	16	ug/kg	
37324-23-5	Aroclor 1262	ND	37	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		10-163%
877-09-8	Tetrachloro-m-xylene	77%		10-163%
2051-24-3	Decachlorobiphenyl	81%		10-215%
2051-24-3	Decachlorobiphenyl	221% ^a		10-215%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-E4-627-221024	
Lab Sample ID:	JD54305-2	Date Sampled: 10/24/22
Matrix:	SO - Soil	Date Received: 10/25/22
Method:	SW846 8082A SW846 3546	Percent Solids: 78.7
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK17803.D	1	10/29/22 00:18	TP	10/26/22 13:10	OP42717	GRK425
Run #2	RL2056.D	20	11/01/22 12:55	TL	10/26/22 13:10	OP42717	GRL34

	Initial Weight	Final Volume
Run #1	16.9 g	10.0 ml
Run #2	16.9 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	18	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	24	ug/kg	
53469-21-9	Aroclor 1242	22400 ^a	750	310	ug/kg	
12672-29-6	Aroclor 1248	ND	38	34	ug/kg	
11097-69-1	Aroclor 1254	22800 ^a	750	400	ug/kg	
11096-82-5	Aroclor 1260 ^b	2520	38	16	ug/kg	
11100-14-4	Aroclor 1268	ND	38	16	ug/kg	
37324-23-5	Aroclor 1262	ND	38	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	55%	89%	10-163%
877-09-8	Tetrachloro-m-xylene	51%	116%	10-163%
2051-24-3	Decachlorobiphenyl	73%	212%	10-215%
2051-24-3	Decachlorobiphenyl	195%	360% ^c	10-215%

(a) Result is from Run# 2

(b) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-F4-627-221024	
Lab Sample ID:	JD54305-3	Date Sampled: 10/24/22
Matrix:	SO - Soil	Date Received: 10/25/22
Method:	SW846 8082A SW846 3546	Percent Solids: 83.2
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK17715.D	5	10/27/22 09:50	RK	10/26/22 13:10	OP42717	GRK423
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	200	92	ug/kg	
11104-28-2	Aroclor 1221	ND	200	120	ug/kg	
11141-16-5	Aroclor 1232	ND	200	130	ug/kg	
53469-21-9	Aroclor 1242	ND	200	81	ug/kg	
12672-29-6	Aroclor 1248	19300	200	180	ug/kg	
11097-69-1	Aroclor 1254	14000	200	110	ug/kg	
11096-82-5	Aroclor 1260	2770	200	84	ug/kg	
11100-14-4	Aroclor 1268	ND	200	83	ug/kg	
37324-23-5	Aroclor 1262	ND	200	130	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	34%		10-163%
877-09-8	Tetrachloro-m-xylene	34%		10-163%
2051-24-3	Decachlorobiphenyl	78%		10-215%
2051-24-3	Decachlorobiphenyl	217% ^a		10-215%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Page 1 of 1

FED-EX Tracking #	Bottle Order Control #
SGS Quote #	SGS Job #

Handwritten in the right column: JS-102022-76
J154305

[illegible]

3.1

Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD54305

Client: TETRA TECH, INC.

Project: R5 START: CHUDNOW METALS SITE- MI

Date / Time Received: 10/25/2022 9:30:00 AM

Delivery Method: Fed Ex

Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (3.1);

Cooler Temps (Corrected) °C: Cooler 1: (3.1);

Cooler Security
Y or N
Y or N

- | | |
|--|--|
| 1. Custody Seals Present: <input checked="" type="checkbox"/> <input type="checkbox"/> | 3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Custody Seals Intact: <input checked="" type="checkbox"/> <input type="checkbox"/> | 4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/> |

Cooler Temperature
Y or N

- | | |
|---|-----------|
| 1. Temp criteria achieved: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Cooler temp verification: | |
| 3. Cooler media: | Ice (Bag) |
| 4. No. Coolers: | 1 |

Quality Control Preservation
Y or N
N/A

- | | |
|---|---|
| 1. Trip Blank present / cooler: <input type="checkbox"/> <input type="checkbox"/> | ✓ |
| 2. Trip Blank listed on COC: <input type="checkbox"/> <input type="checkbox"/> | ✓ |
| 3. Samples preserved properly: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 4. VOCs headspace free: <input type="checkbox"/> <input type="checkbox"/> | ✓ |

Sample Integrity - Documentation
Y or N

- | | |
|---|--|
| 1. Sample labels present on bottles: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Container labeling complete: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 3. Sample container label / COC agree: <input checked="" type="checkbox"/> <input type="checkbox"/> | |

Sample Integrity - Condition
Y or N

- | | |
|---|--------|
| 1. Sample recvd within HT: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. All containers accounted for: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 3. Condition of sample: | Intact |

Sample Integrity - Instructions
Y or N N/A

- | | |
|---|---|
| 1. Analysis requested is clear: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests: <input type="checkbox"/> <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 4. Compositing instructions clear: <input type="checkbox"/> <input type="checkbox"/> | ✓ |
| 5. Filtering instructions clear: <input type="checkbox"/> <input type="checkbox"/> | ✓ |

Test Strip Lot #s:	pH 1-12: 231619	pH 12+: 203117A	Other: (Specify)
--------------------	-----------------	-----------------	------------------

Comments

SM089-03
Rev. Date 12/7/17

JD54305: Chain of Custody

Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech, Inc.

R5 START: Chudnow Metals Site- Milwaukee, WI

103X90310032000DH108

SGS Job Number: JD54372

Sampling Date: 10/25/22

Report to:

ALEXIA.SCHOLL@tetratech.com
Rachel.Houle@tetratech.com
Rindy.Mortensen@tetratech.com
TAYLOR.COOPER@tetratech.com
STARTVDataValidation@tetratech.com; Bruce.Welch@tetratech.com
ATTN: Distribution4

Total number of pages in report: 7



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Tetra Tech, Inc.

Job No: JD54372

R5 START: Chudnow Metals Site- Milwaukee, WI

Project No: 103X90310032000DH108

Sample Number	Collected Date	Time By	Matrix Received Code	Type	Client Sample ID
------------------	-------------------	---------	-------------------------	------	---------------------

This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

JD54372-1	10/25/22	08:37	AS,DH10/26/22	SO	Soil	CM-CS-A4-627-221025
-----------	----------	-------	---------------	----	------	---------------------

JD54372-2	10/25/22	09:30	AS,DH10/26/22	SO	Soil	CM-CS-B4-627-221025
-----------	----------	-------	---------------	----	------	---------------------

JD54372-3	10/25/22	11:47	AS,DH10/26/22	SO	Soil	CM-CS-F1-627-221025
-----------	----------	-------	---------------	----	------	---------------------

The reported LOD and LOQ values have been adjusted for dry weight unless otherwise indicated on the results page. The reported LOD and LOQ values have been adjusted for the same dilution factor as that used for the sample result unless otherwise indicated on the results page. LOD = MDL and LOQ = RL.

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-A4-627-221025	
Lab Sample ID:	JD54372-1	Date Sampled: 10/25/22
Matrix:	SO - Soil	Date Received: 10/26/22
Method:	SW846 8082A SW846 3546	Percent Solids: 90.4
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G223378.D	1	10/31/22 14:46	MLC	10/30/22 14:40	OP42775	G2G5830
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016 ^a	ND	35	16	ug/kg	
11104-28-2	Aroclor 1221	ND	35	22	ug/kg	
11141-16-5	Aroclor 1232	ND	35	22	ug/kg	
53469-21-9	Aroclor 1242	ND	35	14	ug/kg	
12672-29-6	Aroclor 1248	ND	35	31	ug/kg	
11097-69-1	Aroclor 1254	ND	35	19	ug/kg	
11096-82-5	Aroclor 1260 ^a	ND	35	15	ug/kg	
11100-14-4	Aroclor 1268	ND	35	15	ug/kg	
37324-23-5	Aroclor 1262	ND	35	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	119%		10-163%
877-09-8	Tetrachloro-m-xylene	122%		10-163%
2051-24-3	Decachlorobiphenyl	87%		10-215%
2051-24-3	Decachlorobiphenyl	95%		10-215%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-B4-627-221025	
Lab Sample ID:	JD54372-2	Date Sampled: 10/25/22
Matrix:	SO - Soil	Date Received: 10/26/22
Method:	SW846 8082A SW846 3546	Percent Solids: 83.6
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G223379.D	1	10/31/22 15:02	MLC	10/30/22 14:40	OP42775	G2G5830
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016 ^a	ND	39	18	ug/kg	
11104-28-2	Aroclor 1221	ND	39	24	ug/kg	
11141-16-5	Aroclor 1232	ND	39	25	ug/kg	
53469-21-9	Aroclor 1242	ND	39	16	ug/kg	
12672-29-6	Aroclor 1248	ND	39	35	ug/kg	
11097-69-1	Aroclor 1254	ND	39	21	ug/kg	
11096-82-5	Aroclor 1260 ^a	ND	39	17	ug/kg	
11100-14-4	Aroclor 1268	ND	39	17	ug/kg	
37324-23-5	Aroclor 1262	ND	39	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		10-163%
877-09-8	Tetrachloro-m-xylene	89%		10-163%
2051-24-3	Decachlorobiphenyl	79%		10-215%
2051-24-3	Decachlorobiphenyl	95%		10-215%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-F1-627-221025	
Lab Sample ID:	JD54372-3	Date Sampled: 10/25/22
Matrix:	SO - Soil	Date Received: 10/26/22
Method:	SW846 8082A SW846 3546	Percent Solids: 80.1
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G223380.D	1	10/31/22 15:19	MLC	10/30/22 14:40	OP42775	G2G5830
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016 ^a	ND	41	19	ug/kg	
11104-28-2	Aroclor 1221	ND	41	25	ug/kg	
11141-16-5	Aroclor 1232	ND	41	26	ug/kg	
53469-21-9	Aroclor 1242	ND	41	17	ug/kg	
12672-29-6	Aroclor 1248	ND	41	36	ug/kg	
11097-69-1	Aroclor 1254	ND	41	22	ug/kg	
11096-82-5	Aroclor 1260 ^a	ND	41	17	ug/kg	
11100-14-4	Aroclor 1268	ND	41	17	ug/kg	
37324-23-5	Aroclor 1262	ND	41	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		10-163%
877-09-8	Tetrachloro-m-xylene	88%		10-163%
2051-24-3	Decachlorobiphenyl	70%		10-215%
2051-24-3	Decachlorobiphenyl	71%		10-215%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Page 1 of 4

FED-EX Tracking #	Bottle Order Control #
SGS Quote #	SGS Job #

[illegible]

SGS Sample Receipt Summary

Job Number: JD54372

Client: TETRA TECH, INC.

Project: R5 START: CHUDNOW METALS SITE- MI

Date / Time Received: 10/26/2022 10:00:00 AM

Delivery Method:
Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (3.2);

Cooler Temps (Corrected) °C: Cooler 1: (3.2);

Cooler Security
Y or N
Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature
Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation
Y or N
N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation
Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition
Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions
Y or N
N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Test Strip Lot #s:	pH 1-12: 231619	pH 12+: 203117A	Other: (Specify)
--------------------	-----------------	-----------------	------------------

Comments

SM089-03
Rev. Date 12/7/17

JD54372: Chain of Custody

Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Tetra Tech, Inc.

R5 START: Chudnow Metals Site- Milwaukee, WI

103X903100320001DH108

SGS Job Number: JD54536

Sampling Date: 10/27/22

Report to:

ALEXIA.SCHOLL@tetratech.com
Rachel.Houle@tetratech.com
Rindy.Mortensen@tetratech.com
TAYLOR.COOPER@tetratech.com
STARTVDataValidation@tetratech.com; Bruce.Welch@tetratech.com
ATTN: Distribution4

Total number of pages in report: 9



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Tetra Tech, Inc.

Job No: JD54536

R5 START: Chudnow Metals Site- Milwaukee, WI

Project No: 103X903100320001DH108

Sample Number	Collected			Matrix			Client Sample ID
	Date	Time	By	Received	Code	Type	
JD54536-1	10/27/22	08:45	DH	10/28/22	SO	Soil	CM-CS-G1-627-221027
JD54536-2	10/27/22	13:40	DH	10/28/22	SO	Soil	CM-CS-F3-627-221027
JD54536-3	10/27/22	14:53	DH	10/28/22	SO	Soil	CM-CS-D3-627-221027
JD54536-4	10/27/22	16:00	DH	10/28/22	SO	Soil	CM-CS-A3-627-221027
JD54536-5	10/27/22	16:10	DH	10/28/22	SO	Soil	CM-CS-B3-627-221027

The reported LOD and LOQ values have been adjusted for dry weight unless otherwise indicated on the results page. The reported LOD and LOQ values have been adjusted for the same dilution factor as that used for the sample result unless otherwise indicated on the results page. LOD = MDL and LOQ = RL.

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-G1-627-221027	
Lab Sample ID:	JD54536-1	Date Sampled: 10/27/22
Matrix:	SO - Soil	Date Received: 10/28/22
		Percent Solids: 88.2
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	88.2		%	1	10/31/22 16:31	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-F3-627-221027	Date Sampled:	10/27/22
Lab Sample ID:	JD54536-2	Date Received:	10/28/22
Matrix:	SO - Soil	Percent Solids:	80.2
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	80.2		%	1	10/31/22 16:31	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-D3-627-221027	Date Sampled:	10/27/22
Lab Sample ID:	JD54536-3	Date Received:	10/28/22
Matrix:	SO - Soil	Percent Solids:	83.9
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.9		%	1	10/31/22 16:31	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-A3-627-221027	
Lab Sample ID:	JD54536-4	Date Sampled: 10/27/22
Matrix:	SO - Soil	Date Received: 10/28/22
		Percent Solids: 84.6
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.6		%	1	10/31/22 16:31	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-B3-627-221027	
Lab Sample ID:	JD54536-5	Date Sampled: 10/27/22
Matrix:	SO - Soil	Date Received: 10/28/22
		Percent Solids: 86.2
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.2		%	1	10/31/22 16:31	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit



Page ____ of ____

FED-EX Tracking # 9251 0904 7213	Bottle Order Control # JS-102022-26
SGS Quote #	SGS Job # JD54536

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[illegible]

JD54536: Chain of Custody

Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD54536

Client: TETRA TECH, INC.

Project: R5 START: CHUDNOW METALS SITE- MI

Date / Time Received: 10/28/2022 9:20:00 AM

Delivery Method:
Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (1.9);

Cooler Temps (Corrected) °C: Cooler 1: (1.9);

Cooler Security
Y or N
Y or N

- | | |
|--|--|
| 1. Custody Seals Present: <input checked="" type="checkbox"/> <input type="checkbox"/> | 3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Custody Seals Intact: <input checked="" type="checkbox"/> <input type="checkbox"/> | 4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/> |

Cooler Temperature
Y or N

- | | |
|---|-----------|
| 1. Temp criteria achieved: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Cooler temp verification: _____ | |
| 3. Cooler media: _____ | Ice (Bag) |
| 4. No. Coolers: _____ | 1 |

Quality Control Preservation
Y or N
N/A

- | | |
|---|--|
| 1. Trip Blank present / cooler: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Trip Blank listed on COC: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 3. Samples preserved properly: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 4. VOCs headspace free: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | |

Sample Integrity - Documentation
Y or N

- | | |
|---|--|
| 1. Sample labels present on bottles: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Container labeling complete: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 3. Sample container label / COC agree: <input checked="" type="checkbox"/> <input type="checkbox"/> | |

Sample Integrity - Condition
Y or N

- | | |
|---|--------|
| 1. Sample recvd within HT: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. All containers accounted for: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 3. Condition of sample: _____ | Intact |

Sample Integrity - Instructions
Y or N
N/A

- | | |
|---|-------------------------------------|
| 1. Analysis requested is clear: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests: <input type="checkbox"/> <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 4. Compositing instructions clear: <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Test Strip Lot #s:	pH 1-12: 231619	pH 12+: 203117A	Other: (Specify) _____
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Comments

SM089-03
Rev. Date 12/7/17

JD54536: Chain of Custody

Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech, Inc.

R5 START: Chudnow Metals Site- Milwaukee, WI

103X903100320001DH108

SGS Job Number: JD54553

Sampling Date: 10/26/22

Report to:

kelly.ramos@sgs.com
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Total number of pages in report: 7



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

Sample Summary

Tetra Tech, Inc.

Job No: JD54553

R5 START: Chudnow Metals Site- Milwaukee, WI
Project No: 103X903100320001DH108

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD54553-1	10/26/22	14:52 DH	10/27/22	SO Soil	CM-CS-E1-627-221026
JD54553-2	10/26/22	16:45 DH	10/27/22	SO Soil	CM-CS-E2-627-221026
JD54553-3	10/26/22	16:55 DH	10/27/22	SO Soil	CM-CS-E3-627-221026

The reported LOD and LOQ values have been adjusted for dry weight unless otherwise indicated on the results page.
The reported LOD and LOQ values have been adjusted for the same dilution factor as that used for the sample result unless otherwise indicated on the results page. LOD = MDL and LOQ = RL.

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-E1-627-221026	
Lab Sample ID:	JD54553-1	Date Sampled: 10/26/22
Matrix:	SO - Soil	Date Received: 10/27/22
Method:	SW846 8082A SW846 3546	Percent Solids: 85.1
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2492055.D	1	11/03/22 09:04	TL	11/01/22 10:30	OP42822	GXX7967
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	17	ug/kg	
11104-28-2	Aroclor 1221	ND	37	23	ug/kg	
11141-16-5	Aroclor 1232	ND	37	24	ug/kg	
53469-21-9	Aroclor 1242	ND	37	15	ug/kg	
12672-29-6	Aroclor 1248 ^a	725	37	33	ug/kg	
11097-69-1	Aroclor 1254	1540	37	20	ug/kg	
11096-82-5	Aroclor 1260 ^a	460	37	16	ug/kg	
11100-14-4	Aroclor 1268	ND	37	16	ug/kg	
37324-23-5	Aroclor 1262	ND	37	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	62%		10-163%
877-09-8	Tetrachloro-m-xylene	53%		10-163%
2051-24-3	Decachlorobiphenyl	87%		10-215%
2051-24-3	Decachlorobiphenyl	247% ^b		10-215%

(a) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-E2-627-221026	
Lab Sample ID:	JD54553-2	Date Sampled: 10/26/22
Matrix:	SO - Soil	Date Received: 10/27/22
Method:	SW846 8082A SW846 3546	Percent Solids: 84.3
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2492056.D	1	11/03/22 09:21	TL	11/01/22 10:30	OP42822	GXX7967
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	18	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	24	ug/kg	
53469-21-9	Aroclor 1242	ND	38	15	ug/kg	
12672-29-6	Aroclor 1248 ^a	3070	38	34	ug/kg	
11097-69-1	Aroclor 1254 ^a	2690	38	20	ug/kg	
11096-82-5	Aroclor 1260 ^a	411	38	16	ug/kg	
11100-14-4	Aroclor 1268	ND	38	16	ug/kg	
37324-23-5	Aroclor 1262	ND	38	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	70%		10-163%
877-09-8	Tetrachloro-m-xylene	59%		10-163%
2051-24-3	Decachlorobiphenyl	108%		10-215%
2051-24-3	Decachlorobiphenyl	128%		10-215%

(a) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-E3-627-221026	
Lab Sample ID:	JD54553-3	Date Sampled: 10/26/22
Matrix:	SO - Soil	Date Received: 10/27/22
Method:	SW846 8082A SW846 3546	Percent Solids: 78.7
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	XX2492057.D	10	11/03/22 09:38	TL	11/01/22 10:30	OP42822	GXX7967
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	410	190	ug/kg	
11104-28-2	Aroclor 1221	ND	410	260	ug/kg	
11141-16-5	Aroclor 1232	ND	410	260	ug/kg	
53469-21-9	Aroclor 1242	ND	410	170	ug/kg	
12672-29-6	Aroclor 1248 ^b	31200	410	370	ug/kg	
11097-69-1	Aroclor 1254 ^b	20200	410	220	ug/kg	
11096-82-5	Aroclor 1260 ^b	3380	410	180	ug/kg	
11100-14-4	Aroclor 1268	ND	410	170	ug/kg	
37324-23-5	Aroclor 1262	ND	410	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	49%		10-163%
877-09-8	Tetrachloro-m-xylene	66%		10-163%
2051-24-3	Decachlorobiphenyl	190%		10-215%
2051-24-3	Decachlorobiphenyl	330% ^c		10-215%

(a) Diluted due to high concentration of target compound.

(b) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Page ____ of ____

EHSA-QAC-0023-04-FORM-Standard COC

JD54553: Chain of Custody

SGS Sample Receipt Summary

Job Number: JD54553

Client:
Project:
Date / Time Received: 10/27/2022 9:20:00 AM

Delivery Method:
Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (2.1);

Cooler Temps (Corrected) °C: Cooler 1: (2.1);

Cooler Security
Y or N
Y or N

- | | |
|--|--|
| 1. Custody Seals Present: <input checked="" type="checkbox"/> <input type="checkbox"/> | 3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Custody Seals Intact: <input checked="" type="checkbox"/> <input type="checkbox"/> | 4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/> |

Cooler Temperature
Y or N

- | | |
|---|-----------|
| 1. Temp criteria achieved: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Cooler temp verification: _____ | |
| 3. Cooler media: _____ | Ice (Bag) |
| 4. No. Coolers: _____ | 1 |

Quality Control Preservation
Y or N
N/A

- | | |
|---|--|
| 1. Trip Blank present / cooler: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Trip Blank listed on COC: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 3. Samples preserved properly: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 4. VOCs headspace free: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | |

Sample Integrity - Documentation
Y or N

- | | |
|---|--|
| 1. Sample labels present on bottles: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Container labeling complete: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 3. Sample container label / COC agree: <input checked="" type="checkbox"/> <input type="checkbox"/> | |

Sample Integrity - Condition
Y or N

- | | |
|---|--------|
| 1. Sample recvd within HT: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. All containers accounted for: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 3. Condition of sample: _____ | Intact |

Sample Integrity - Instructions
Y or N
N/A

- | | |
|---|-------------------------------------|
| 1. Analysis requested is clear: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests: <input type="checkbox"/> <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 4. Compositing instructions clear: <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Test Strip Lot #s:

pH 1-12: 231619

pH 12+: 203117A

Other: (Specify)

Comments

 SM089-03
Rev. Date 12/7/17

JD54553: Chain of Custody
Page 2 of 2

Technical Report for

Tetra Tech, Inc.

R5 START: Chudnow Metals Site- Milwaukee, WI

103X903100320001DH108

SGS Job Number: JD54598

Sampling Date: 10/28/22

Report to:

Tetra Tech, Inc.
1 South Wacker Drive Suite 3700
Chicago, IL 60606
ALEXIA.SCHOLL@tetrattech.com; Rachel.Houle@tetrattech.com;
Rindy.Mortensen@tetrattech.com; TAYLOR.COOPER@tetrattech.com;
ATTN: Rachel Houle

Total number of pages in report: 5



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

Sample Summary

Tetra Tech, Inc.

Job No: JD54598

R5 START: Chudnow Metals Site- Milwaukee, WI
Project No: 103X903100320001DH108

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD54598-1	10/28/22	14:20 DH	10/29/22	SO	Soil	CM-CS-D1-627-221028
-----------	----------	----------	----------	----	------	---------------------

JD54598-2	10/28/22	16:10 DH	10/29/22	SO	Soil	CM-CS-D2-627-221028
-----------	----------	----------	----------	----	------	---------------------

The reported LOD and LOQ values have been adjusted for dry weight unless otherwise indicated on the results page.
The reported LOD and LOQ values have been adjusted for the same dilution factor as that used for the sample result unless otherwise indicated on the results page. LOD = MDL and LOQ = RL.

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID: CM-CS-D1-627-221028**Lab Sample ID:** JD54598-1**Date Sampled:** 10/28/22**Matrix:** SO - Soil**Date Received:** 10/29/22**Method:** SW846 8082A SW846 3546**Percent Solids:** 76.0**Project:** R5 START: Chudnow Metals Site- Milwaukee, WI

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	5G125046.D	1	11/02/22 08:29	CP	11/01/22 10:30	OP42825	G5G3165
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	42	20	ug/kg	
11104-28-2	Aroclor 1221	ND	42	26	ug/kg	
11141-16-5	Aroclor 1232	ND	42	27	ug/kg	
53469-21-9	Aroclor 1242	351	42	17	ug/kg	
12672-29-6	Aroclor 1248	ND	42	38	ug/kg	
11097-69-1	Aroclor 1254	738	42	23	ug/kg	
11096-82-5	Aroclor 1260	ND	42	18	ug/kg	
11100-14-4	Aroclor 1268	ND	42	18	ug/kg	
37324-23-5	Aroclor 1262	165	42	28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		10-163%
877-09-8	Tetrachloro-m-xylene	77%		10-163%
2051-24-3	Decachlorobiphenyl	89%		10-215%
2051-24-3	Decachlorobiphenyl	94%		10-215%

(a) Preliminary data

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CM-CS-D2-627-221028**Lab Sample ID:** JD54598-2**Date Sampled:** 10/28/22**Matrix:** SO - Soil**Date Received:** 10/29/22**Method:** SW846 8082A SW846 3546**Percent Solids:** 81.6**Project:** R5 START: Chudnow Metals Site- Milwaukee, WI

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G125047.D	1	11/02/22 08:46	CP	11/01/22 10:30	OP42825	G5G3165
Run #2							

	Initial Weight	Final Volume
Run #1	16.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	18	ug/kg	
11104-28-2	Aroclor 1221	ND	38	24	ug/kg	
11141-16-5	Aroclor 1232	ND	38	24	ug/kg	
53469-21-9	Aroclor 1242	6750	38	16	ug/kg	
12672-29-6	Aroclor 1248	ND	38	34	ug/kg	
11097-69-1	Aroclor 1254	5890	38	20	ug/kg	
11096-82-5	Aroclor 1260	1080	38	16	ug/kg	
11100-14-4	Aroclor 1268	ND	38	16	ug/kg	
37324-23-5	Aroclor 1262	ND	38	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		10-163%
877-09-8	Tetrachloro-m-xylene	94%		10-163%
2051-24-3	Decachlorobiphenyl	105%		10-215%
2051-24-3	Decachlorobiphenyl	185%		10-215%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech, Inc.

R5 START: Chudnow Metals Site- Milwaukee, WI

103X903100320001DH108

SGS Job Number: JD54732

Sampling Date: 10/31/22

Report to:

kelly.ramos@sgs.com
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TAYLOR.COOPER@tetrattech.com;STARTVDataValidation@tetrattech.com;Bruce.We
ATTN: Distribution4

Total number of pages in report: 11



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Sample Summary

Tetra Tech, Inc.

Job No: JD54732

R5 START: Chudnow Metals Site- Milwaukee, WI
Project No: 103X903100320001DH108

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

JD54732-1	10/31/22	09:35 DH	11/01/22	SO	Soil	CM-CS C4-627-221031
JD54732-2	10/31/22	09:40 DH	11/01/22	SO	Soil	CM-CS-DUP01-221031
JD54732-3	10/31/22	13:15 DH	11/01/22	SO	Soil	CM-CS-C3-627-221031
JD54732-4	10/31/22	13:20 DH	11/01/22	SO	Soil	CM-CS-G4-627-221031
JD54732-5	10/31/22	13:25 DH	11/01/22	SO	Soil	CM-CS-DUP02-221031
JD54732-6	10/31/22	15:00 DH	11/01/22	SO	Soil	CM-CS-G3-627-221031
JD54732-7	10/31/22	16:05 DH	11/01/22	SO	Soil	CM-CS-G2-627-221031

The reported LOD and LOQ values have been adjusted for dry weight unless otherwise indicated on the results page. The reported LOD and LOQ values have been adjusted for the same dilution factor as that used for the sample result unless otherwise indicated on the results page. LOD = MDL and LOQ = RL.

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS C4-627-221031	
Lab Sample ID:	JD54732-1	Date Sampled: 10/31/22
Matrix:	SO - Soil	Date Received: 11/01/22
Method:	SW846 8082A SW846 3546	Percent Solids: 84.6
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G223432.D	1	11/02/22 22:17	RK	11/02/22 10:20	OP42886	G2G5832
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	18	ug/kg	
11104-28-2	Aroclor 1221	ND	39	24	ug/kg	
11141-16-5	Aroclor 1232	ND	39	25	ug/kg	
53469-21-9	Aroclor 1242 ^a	4040	39	16	ug/kg	
12672-29-6	Aroclor 1248	ND	39	35	ug/kg	
11097-69-1	Aroclor 1254	7280	39	21	ug/kg	
11096-82-5	Aroclor 1260 ^a	1350	39	17	ug/kg	
11100-14-4	Aroclor 1268	ND	39	16	ug/kg	
37324-23-5	Aroclor 1262	ND	39	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	59%		10-163%
877-09-8	Tetrachloro-m-xylene	56%		10-163%
2051-24-3	Decachlorobiphenyl	94%		10-215%
2051-24-3	Decachlorobiphenyl	301% ^b		10-215%

(a) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-DUP01-221031	
Lab Sample ID:	JD54732-2	Date Sampled: 10/31/22
Matrix:	SO - Soil	Date Received: 11/01/22
Method:	SW846 8082A SW846 3546	Percent Solids: 85.1
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G223433.D	1	11/02/22 22:33	RK	11/02/22 10:20	OP42886	G2G5832
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	18	ug/kg	
11104-28-2	Aroclor 1221	ND	38	24	ug/kg	
11141-16-5	Aroclor 1232	ND	38	24	ug/kg	
53469-21-9	Aroclor 1242 ^a	8340	38	16	ug/kg	
12672-29-6	Aroclor 1248	ND	38	34	ug/kg	
11097-69-1	Aroclor 1254 ^a	8040	38	21	ug/kg	
11096-82-5	Aroclor 1260 ^a	1400	38	16	ug/kg	
11100-14-4	Aroclor 1268	ND	38	16	ug/kg	
37324-23-5	Aroclor 1262	ND	38	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	58%		10-163%
877-09-8	Tetrachloro-m-xylene	63%		10-163%
2051-24-3	Decachlorobiphenyl	80%		10-215%
2051-24-3	Decachlorobiphenyl	261% ^b		10-215%

(a) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-C3-627-221031	
Lab Sample ID:	JD54732-3	Date Sampled: 10/31/22
Matrix:	SO - Soil	Date Received: 11/01/22
Method:	SW846 8082A SW846 3546	Percent Solids: 84.9
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G223434.D	1	11/02/22 22:50	RK	11/02/22 10:20	OP42886	G2G5832
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	18	ug/kg	
11104-28-2	Aroclor 1221	ND	38	24	ug/kg	
11141-16-5	Aroclor 1232	ND	38	24	ug/kg	
53469-21-9	Aroclor 1242 ^a	11500	38	16	ug/kg	
12672-29-6	Aroclor 1248	ND	38	34	ug/kg	
11097-69-1	Aroclor 1254 ^a	12800	38	21	ug/kg	
11096-82-5	Aroclor 1260	1710	38	16	ug/kg	
11100-14-4	Aroclor 1268	ND	38	16	ug/kg	
37324-23-5	Aroclor 1262	ND	38	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	50%		10-163%
877-09-8	Tetrachloro-m-xylene	50%		10-163%
2051-24-3	Decachlorobiphenyl	64%		10-215%
2051-24-3	Decachlorobiphenyl	208%		10-215%

(a) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-G4-627-221031	
Lab Sample ID:	JD54732-4	Date Sampled: 10/31/22
Matrix:	SO - Soil	Date Received: 11/01/22
Method:	SW846 8082A SW846 3546	Percent Solids: 80.4
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2G223502.D	5	11/03/22 19:39	RK	11/02/22 10:20	OP42886	G2G5834
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	200	93	ug/kg	
11104-28-2	Aroclor 1221	ND	200	120	ug/kg	
11141-16-5	Aroclor 1232	ND	200	130	ug/kg	
53469-21-9	Aroclor 1242 ^b	11900	200	82	ug/kg	
12672-29-6	Aroclor 1248	ND	200	180	ug/kg	
11097-69-1	Aroclor 1254 ^b	29500	200	110	ug/kg	
11096-82-5	Aroclor 1260	3860	200	85	ug/kg	
11100-14-4	Aroclor 1268	ND	200	85	ug/kg	
37324-23-5	Aroclor 1262	ND	200	130	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		10-163%
877-09-8	Tetrachloro-m-xylene	93%		10-163%
2051-24-3	Decachlorobiphenyl	86%		10-215%
2051-24-3	Decachlorobiphenyl	317% ^c		10-215%

(a) Diluted due to high concentration of target compound.

(b) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-DUP02-221031	
Lab Sample ID:	JD54732-5	Date Sampled: 10/31/22
Matrix:	SO - Soil	Date Received: 11/01/22
Method:	SW846 8082A SW846 3546	Percent Solids: 84.3
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2G223503.D	5	11/03/22 19:56	RK	11/02/22 10:20	OP42886	G2G5834
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	190	90	ug/kg	
11104-28-2	Aroclor 1221	ND	190	120	ug/kg	
11141-16-5	Aroclor 1232	ND	190	120	ug/kg	
53469-21-9	Aroclor 1242 ^b	16800	190	79	ug/kg	
12672-29-6	Aroclor 1248	ND	190	170	ug/kg	
11097-69-1	Aroclor 1254 ^b	17300	190	100	ug/kg	
11096-82-5	Aroclor 1260	2400	190	83	ug/kg	
11100-14-4	Aroclor 1268	ND	190	82	ug/kg	
37324-23-5	Aroclor 1262	ND	190	130	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		10-163%
877-09-8	Tetrachloro-m-xylene	60%		10-163%
2051-24-3	Decachlorobiphenyl	71%		10-215%
2051-24-3	Decachlorobiphenyl	236% ^c		10-215%

(a) Diluted due to high concentration of target compound.

(b) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-G3-627-221031	
Lab Sample ID:	JD54732-6	Date Sampled: 10/31/22
Matrix:	SO - Soil	Date Received: 11/01/22
Method:	SW846 8082A SW846 3546	Percent Solids: 84.8
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G223504.D	1	11/03/22 20:12	RK	11/02/22 10:20	OP42886	G2G5834
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	18	ug/kg	
11104-28-2	Aroclor 1221	ND	39	24	ug/kg	
11141-16-5	Aroclor 1232	ND	39	25	ug/kg	
53469-21-9	Aroclor 1242	6990	39	16	ug/kg	
12672-29-6	Aroclor 1248	ND	39	35	ug/kg	
11097-69-1	Aroclor 1254 ^a	5350	39	21	ug/kg	
11096-82-5	Aroclor 1260	960	39	17	ug/kg	
11100-14-4	Aroclor 1268	ND	39	16	ug/kg	
37324-23-5	Aroclor 1262	ND	39	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	56%		10-163%
877-09-8	Tetrachloro-m-xylene	66%		10-163%
2051-24-3	Decachlorobiphenyl	72%		10-215%
2051-24-3	Decachlorobiphenyl	170%		10-215%

(a) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-G2-627-221031	
Lab Sample ID:	JD54732-7	Date Sampled: 10/31/22
Matrix:	SO - Soil	Date Received: 11/01/22
Method:	SW846 8082A SW846 3546	Percent Solids: 82.5
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G223505.D	1	11/03/22 20:29	RK	11/02/22 10:20	OP42886	G2G5834
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	18	ug/kg	
11104-28-2	Aroclor 1221	ND	39	24	ug/kg	
11141-16-5	Aroclor 1232	ND	39	25	ug/kg	
53469-21-9	Aroclor 1242	729	39	16	ug/kg	
12672-29-6	Aroclor 1248	ND	39	35	ug/kg	
11097-69-1	Aroclor 1254	627	39	21	ug/kg	
11096-82-5	Aroclor 1260	241	39	17	ug/kg	
11100-14-4	Aroclor 1268	ND	39	17	ug/kg	
37324-23-5	Aroclor 1262	ND	39	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		10-163%
877-09-8	Tetrachloro-m-xylene	93%		10-163%
2051-24-3	Decachlorobiphenyl	82%		10-215%
2051-24-3	Decachlorobiphenyl	145%		10-215%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



So

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200
www.sgs.com/ehsusa

Page 1 of 1

Client / Reporting Information		Project Information		FED-EX Tracking #		Bottle Order Control #	
Company Name: Tetra Tech		Project Name: Chudnow Metals		SGS Quote #		SGS Job # JD54732	
Street Address: 15 Wacker		Street: 5701 State St		Matrix Codes		DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LID - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RS - Rinse Blank TB - Trip Blank	
City: Chicago IL Zip: 60606		City: Milwaukee WI		Billing Information (if different from Report to)			
Project Contact: Rachel Houle		Project # 1034903100320001		Company Name: Tetra Tech			
E-mail: rachel.houle@tetra-tech.com		Client Purchase Order #		Street Address: Accounts Payable			
Phone # 708-455-4569		City: State: Zip:		City: State: Zip:			
Sampler(s) Name(s): D. Higley		Project Manager: Rachel Houle		Attention:			
Turn Around Time (Business Days)		Deliverable		Comments / Special Instructions			
<input type="checkbox"/> 10 Business Days <input type="checkbox"/> 5 Business Days <input type="checkbox"/> 3 Business Days* <input checked="" type="checkbox"/> 2 Business Days* <input type="checkbox"/> 1 Business Day* <input type="checkbox"/> Other		Approved By (SGS PM) / Date:		Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NJ Reduced (Level 3) <input type="checkbox"/> Full Tier I (Level 4) <input type="checkbox"/> Commercial "C" <input type="checkbox"/> NJ DKQP		NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> MA MCP Criteria <input type="checkbox"/> CT RCP Criteria <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format	
All data available via SGS Engage		* Approval needed for 1-3 BD TAT		Commercial "A" = Results only; Commercial "B" = Results + QC Summary Commercial "C" = Results + QC Summary + Partial Raw data		http://www.sgs.com/en/terms-and-conditions	
Sample Custody must be documented below each time samples change possession, including courier delivery.		Relinquished by: 1		Received By: 1		Date / Time: 10-31-22 1705	
Relinquished by: 2		Received By: 2		Date / Time: 11-01-22 0930		Received By: 2	
Relinquished by: 3		Received By: 3		Date / Time: 11-01-22 0930		Received By: 3	
Relinquished by: 4		Received By: 4		Date / Time: 11-01-22 0930		Received By: 4	
Relinquished by: 5		Received By: 5		Date / Time: 11-01-22 0930		Received By: 5	
Custody Seal #		<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Therm ID: On Ice See Sample Receipt Summary		Cooler Temp. °C	

EHSA-QAC-0023-05 Rev Date: 8/5/22

3.1

JD54732: Chain of Custody

Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD54732

Client: TETRA TECH, INC.

Project: R5 START: CHUDNOW METALS SITE- MI

Date / Time Received: 11/1/2022 9:30:00 AM

Delivery Method: Fed Ex

Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (3.1);

Cooler Temps (Corrected) °C: Cooler 1: (3.1);

Cooler Security
Y or N
Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature
Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation
Y or N
N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation
Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition
Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions
Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Test Strip Lot #s:	pH 1-12: 231619	pH 12+: 203117A	Other: (Specify)
--------------------	-----------------	-----------------	------------------

Comments

SM089-03
Rev. Date 12/7/17

JD54732: Chain of Custody

Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech, Inc.

R5 START: Chudnow Metals Site- Milwaukee, WI

103X903100320001DH108

SGS Job Number: JD54806

Sampling Date: 11/01/22

Report to:

kelly.ramos@sgs.com
ALEXIA.SCHOLL@tetrattech.com
Rachel.Houle@tetrattech.com
Rindy.Mortensen@tetrattech.com
TAYLOR.COOPER@tetrattech.com;STARTVDataValidation@tetrattech.com;Bruce.We
ATTN: Distribution4

Total number of pages in report: 7



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Tetra Tech, Inc.

Job No: JD54806

R5 START: Chudnow Metals Site- Milwaukee, WI

Project No: 103X903100320001DH108

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

JD54806-1	11/01/22	12:10 DH	11/02/22	SO	Soil	CM-CS-F2-627-221101
JD54806-1D	11/01/22	12:10 DH	11/02/22	SO	Soil Dup/MSD	CM-CS-F2-627-221101
JD54806-1S	11/01/22	12:10 DH	11/02/22	SO	Soil Matrix Spike	CM-CS-F2-627-221101
JD54806-2	11/01/22	16:00 DH	11/02/22	SO	Soil	CM-CS-C1-627-221101
JD54806-3	11/01/22	16:30 DH	11/02/22	SO	Soil	CM-CS-C2-627-221101

The reported LOD and LOQ values have been adjusted for dry weight unless otherwise indicated on the results page. The reported LOD and LOQ values have been adjusted for the same dilution factor as that used for the sample result unless otherwise indicated on the results page. LOD = MDL and LOQ = RL.

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-F2-627-221101	
Lab Sample ID:	JD54806-1	Date Sampled: 11/01/22
Matrix:	SO - Soil	Date Received: 11/02/22
Method:	SW846 8082A SW846 3546	Percent Solids: 85.1
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK17885.D	1	11/03/22 13:17	TL	11/02/22 15:00	OP42865	GRK428
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	18	ug/kg	
11104-28-2	Aroclor 1221	ND	38	24	ug/kg	
11141-16-5	Aroclor 1232	ND	38	24	ug/kg	
53469-21-9	Aroclor 1242 ^a	696	38	16	ug/kg	
12672-29-6	Aroclor 1248	ND	38	34	ug/kg	
11097-69-1	Aroclor 1254 ^a	665	38	21	ug/kg	
11096-82-5	Aroclor 1260 ^a	388	38	16	ug/kg	
11100-14-4	Aroclor 1268	ND	38	16	ug/kg	
37324-23-5	Aroclor 1262	ND	38	25	ug/kg	
1336-36-3	Total PCBs	1750	38		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	53%		10-163%
877-09-8	Tetrachloro-m-xylene	54%		10-163%
2051-24-3	Decachlorobiphenyl	58%		10-215%
2051-24-3	Decachlorobiphenyl	85%		10-215%

(a) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-C1-627-221101	
Lab Sample ID:	JD54806-2	Date Sampled: 11/01/22
Matrix:	SO - Soil	Date Received: 11/02/22
Method:	SW846 8082A SW846 3546	Percent Solids: 82.7
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	RK17916.D	1	11/03/22 22:47	MLC	11/02/22 15:00	OP42865	GRK429
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	19	ug/kg	
11104-28-2	Aroclor 1221	ND	40	25	ug/kg	
11141-16-5	Aroclor 1232	ND	40	25	ug/kg	
53469-21-9	Aroclor 1242	ND	40	16	ug/kg	
12672-29-6	Aroclor 1248	1140	40	35	ug/kg	
11097-69-1	Aroclor 1254 ^b	1870	40	21	ug/kg	
11096-82-5	Aroclor 1260	ND	40	17	ug/kg	
11100-14-4	Aroclor 1268	ND	40	17	ug/kg	
37324-23-5	Aroclor 1262 ^b	268	40	26	ug/kg	
1336-36-3	Total PCBs	3280	40		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	46%		10-163%
877-09-8	Tetrachloro-m-xylene	38%		10-163%
2051-24-3	Decachlorobiphenyl	42%		10-215%
2051-24-3	Decachlorobiphenyl	82%		10-215%

(a) Had TBA cleanup.

(b) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-C2-627-221101	
Lab Sample ID:	JD54806-3	Date Sampled: 11/01/22
Matrix:	SO - Soil	Date Received: 11/02/22
Method:	SW846 8082A SW846 3546	Percent Solids: 79.4
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	RK17917.D	1	11/03/22 23:03	MLC	11/02/22 15:00	OP42865	GRK429
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	19	ug/kg	
11104-28-2	Aroclor 1221	ND	40	25	ug/kg	
11141-16-5	Aroclor 1232	ND	40	26	ug/kg	
53469-21-9	Aroclor 1242	ND	40	17	ug/kg	
12672-29-6	Aroclor 1248 ^b	3430	40	36	ug/kg	
11097-69-1	Aroclor 1254 ^b	4090	40	22	ug/kg	
11096-82-5	Aroclor 1260	ND	40	17	ug/kg	
11100-14-4	Aroclor 1268	ND	40	17	ug/kg	
37324-23-5	Aroclor 1262 ^b	589	40	26	ug/kg	
1336-36-3	Total PCBs	8110	40		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	70%		10-163%
877-09-8	Tetrachloro-m-xylene	53%		10-163%
2051-24-3	Decachlorobiphenyl	69%		10-215%
2051-24-3	Decachlorobiphenyl	110%		10-215%

(a) Had TBA cleanup.

(b) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Page i of 1

FED-EX Tracking # 7703-2265-5197	Bottle Order Control # JS-102022-26
SGS Quote #	SGS Job # JD54806

Client / Reporting Information				Project Information				Matrix Codes											
Company Name: Tetra Tech				Project Name: Chadron Metals				<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p>OW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank</p> </div> <div style="width: 50%; text-align: center;"> <p style="font-size: 2em; transform: rotate(-90deg);">PCO'S</p> </div> </div>											
Street Address: 1 S Wacker				Street: 5401 State St.															
City: Chicago IL 60606				City: Milwaukee WI															
Project Contact: Rachel Hawk				Billing Information (if different from Report to): Company Name: Tetra Tech															
E-mail: rachel.hawk@tetra-tech.com				Project # 103190300300010108															
Phone # 708-455-4569				Client Purchase Order #				Street Address: Accounts Payable											
Sample(s) Name(s): Daniel Higley				Project Manager: Rachel Hawk				Attention:											
Field ID / Point of Collection				Collection				pH Check (Lab Use Only)											
SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Cap (C) Comp (C)	Source (Client used (Y/N))	Matrix	# of bottles	HCl	NaOH	HNO ₃	H ₂ SO ₄	NONE	D1 Water	MEOH	ENCORE	LAB USE ONLY	
1	CM-CS-F2-627-221101		11-01-22	1200	DH	C	Soil	3										X	
2	CM-CS-C1-627-221101		11-01-22	1600	DH	C	Soil	1										X	
3	CM-CS-C2-627-221101		11-01-22	1630	DH	C	Soil	1										X	
Initial Assessment <u>2B</u> Label Verification _____																			
Turn Around Time (Business Days)								Deliverable								Comments / Special Instructions			
Approved By (SGS PM) / Date: _____ <input type="checkbox"/> 10 Business Days <input type="checkbox"/> 5 Business Days <input type="checkbox"/> 3 Business Days* <input checked="" type="checkbox"/> 2 Business Days* <input type="checkbox"/> 1 Business Day* <input type="checkbox"/> Other _____ <small>All data available via SGS Engage</small>								<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NJ Reduced (Level 3) <input type="checkbox"/> Full Tier 1 (Level 4) <input type="checkbox"/> Commercial "C" <input type="checkbox"/> NJ DKQP								<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> MA MCP Criteria _____ <input type="checkbox"/> CT RCP Criteria _____ <input type="checkbox"/> State Forms <input type="checkbox"/> EDO Format _____			
Sample Custody must be documented below each time samples change possession, including courier delivery.								Commercial "A" = Results only, Commercial "B" = Results + QC Summary Commercial "C" = Results + QC Summary + Partial Raw data								CM-CS-F2-627-221101 - MS/MSD http://www.sgs.com/en/terms-and-conditions			
Relinquished by: [Signature]		Date / Time: 11-01-22 1705		Received By: Fedex		Relinquished by: 2		Date / Time: 11/2/22		Received By: [Signature]		Relinquished by: 3		Date / Time:		Received By: 4			
Relinquished by: 3		Date / Time:		Received By: 5		Custody Seal #		<input type="checkbox"/> Intact <input type="checkbox"/> Not intact <input type="checkbox"/> Absent		Therm ID: 2-0		On Ice <input checked="" type="checkbox"/>		Cooler Temp: 2-0					

SGS Sample Receipt Summary

Job Number: JD54806

Client: TETRA TECH, INC.

Project: R5 START: CHUDNOW METALS SITE- MI

Date / Time Received: 11/2/2022 10:25:00 AM

Delivery Method: Fed Ex

Airbill #s: 7703 7265 5197

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.0);

Cooler Security
Y or N
Y or N

- | | |
|--|--|
| 1. Custody Seals Present: <input checked="" type="checkbox"/> <input type="checkbox"/> | 3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Custody Seals Intact: <input checked="" type="checkbox"/> <input type="checkbox"/> | 4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/> |

Cooler Temperature
Y or N

- | | |
|---|-----------|
| 1. Temp criteria achieved: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Cooler temp verification: _____ | |
| 3. Cooler media: _____ | Ice (Bag) |
| 4. No. Coolers: _____ | 1 |

Quality Control Preservation
Y or N
N/A

- | | |
|---|--|
| 1. Trip Blank present / cooler: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | |
| 2. Trip Blank listed on COC: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | |
| 3. Samples preserved properly: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 4. VOCs headspace free: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | |

Sample Integrity - Documentation
Y or N

- | | |
|---|--|
| 1. Sample labels present on bottles: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Container labeling complete: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 3. Sample container label / COC agree: <input checked="" type="checkbox"/> <input type="checkbox"/> | |

Sample Integrity - Condition
Y or N

- | | |
|---|--------|
| 1. Sample recvd within HT: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. All containers accounted for: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 3. Condition of sample: _____ | Intact |

Sample Integrity - Instructions
Y or N N/A

- | | |
|--|--|
| 1. Analysis requested is clear: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests: <input type="checkbox"/> <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 4. Compositing instructions clear: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | |
| 5. Filtering instructions clear: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | |

Test Strip Lot #s:	pH 1-12: 231619	pH 12+: 203117A	Other: (Specify) _____
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Comments

SM089-03
Rev. Date 12/7/17

JD54806: Chain of Custody

Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech, Inc.

R5 START: Chudnow Metals Site- Milwaukee, WI

103X903100320001DH108

SGS Job Number: JD54892

Sampling Date: 11/02/22

Report to:

kelly.ramos@sgs.com
ALEXIA.SCHOLL@tetrattech.com
Rachel.Houle@tetrattech.com
Rindy.Mortensen@tetrattech.com
TAYLOR.COOPER@tetrattech.com;STARTVDataValidation@tetrattech.com;Bruce.We
ATTN: Distribution4

Total number of pages in report: 7



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Tetra Tech, Inc.

Job No: JD54892

R5 START: Chudnow Metals Site- Milwaukee, WI

Project No: 103X903100320001DH108

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

JD54892-1	11/02/22	09:43 DH	11/03/22	SO Soil	CM-CS-A2-627-221102
JD54892-2	11/02/22	09:50 DH	11/03/22	SO Soil	CM-CS-DUP01-221102
JD54892-3	11/02/22	13:00 DH	11/03/22	SO Soil	CM-CS-A1-627-221102

The reported LOD and LOQ values have been adjusted for dry weight unless otherwise indicated on the results page. The reported LOD and LOQ values have been adjusted for the same dilution factor as that used for the sample result unless otherwise indicated on the results page. LOD = MDL and LOQ = RL.

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-A2-627-221102	
Lab Sample ID:	JD54892-1	Date Sampled: 11/02/22
Matrix:	SO - Soil	Date Received: 11/03/22
Method:	SW846 8082A SW846 3546	Percent Solids: 80.6
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G223548.D	1	11/04/22 08:12	RK	11/03/22 16:50	OP42915	G2G5834
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	41	19	ug/kg	
11104-28-2	Aroclor 1221	ND	41	25	ug/kg	
11141-16-5	Aroclor 1232	ND	41	26	ug/kg	
53469-21-9	Aroclor 1242	ND	41	17	ug/kg	
12672-29-6	Aroclor 1248	3510	41	36	ug/kg	
11097-69-1	Aroclor 1254	9160	41	22	ug/kg	
11096-82-5	Aroclor 1260	1470	41	17	ug/kg	
11100-14-4	Aroclor 1268	ND	41	17	ug/kg	
37324-23-5	Aroclor 1262	ND	41	27	ug/kg	
1336-36-3	Total PCBs	14100	41		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	42%		10-163%
877-09-8	Tetrachloro-m-xylene	41%		10-163%
2051-24-3	Decachlorobiphenyl	47%		10-215%
2051-24-3	Decachlorobiphenyl	181%		10-215%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-DUP01-221102	
Lab Sample ID:	JD54892-2	Date Sampled: 11/02/22
Matrix:	SO - Soil	Date Received: 11/03/22
Method:	SW846 8082A SW846 3546	Percent Solids: 78.4
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G223549.D	1	11/04/22 08:28	RK	11/03/22 16:50	OP42915	G2G5834
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	41	19	ug/kg	
11104-28-2	Aroclor 1221	ND	41	26	ug/kg	
11141-16-5	Aroclor 1232	ND	41	26	ug/kg	
53469-21-9	Aroclor 1242	ND	41	17	ug/kg	
12672-29-6	Aroclor 1248	6850	41	37	ug/kg	
11097-69-1	Aroclor 1254	15000	41	22	ug/kg	
11096-82-5	Aroclor 1260	1770	41	18	ug/kg	
11100-14-4	Aroclor 1268	ND	41	17	ug/kg	
37324-23-5	Aroclor 1262	ND	41	27	ug/kg	
1336-36-3	Total PCBs	23600	41		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	43%		10-163%
877-09-8	Tetrachloro-m-xylene	43%		10-163%
2051-24-3	Decachlorobiphenyl	53%		10-215%
2051-24-3	Decachlorobiphenyl	161%		10-215%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	CM-CS-A1-627-221102	
Lab Sample ID:	JD54892-3	Date Sampled: 11/02/22
Matrix:	SO - Soil	Date Received: 11/03/22
Method:	SW846 8082A SW846 3546	Percent Solids: 82.2
Project:	R5 START: Chudnow Metals Site- Milwaukee, WI	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G223550.D	1	11/04/22 08:45	RK	11/03/22 16:50	OP42915	G2G5834
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	18	ug/kg	
11104-28-2	Aroclor 1221	ND	39	24	ug/kg	
11141-16-5	Aroclor 1232	ND	39	25	ug/kg	
53469-21-9	Aroclor 1242	ND	39	16	ug/kg	
12672-29-6	Aroclor 1248	620	39	35	ug/kg	
11097-69-1	Aroclor 1254	1130	39	21	ug/kg	
11096-82-5	Aroclor 1260	258	39	17	ug/kg	
11100-14-4	Aroclor 1268	ND	39	17	ug/kg	
37324-23-5	Aroclor 1262	ND	39	26	ug/kg	
1336-36-3	Total PCBs	2010	39		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	29%		10-163%
877-09-8	Tetrachloro-m-xylene	28%		10-163%
2051-24-3	Decachlorobiphenyl	34%		10-215%
2051-24-3	Decachlorobiphenyl	98%		10-215%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Page 1 of 1

PGS Tracking #	7703 8240560333	Batch Order Control #	102022-26
SGS Quote #		SGS Job #	TD54892

[illegible]

SGS Sample Receipt Summary

Job Number: JD54892 **Client:** TETRA TECH, INC. **Project:** R5 START: CHUDNOW METALS SITE- MI
Date / Time Received: 11/3/2022 9:50:00 AM **Delivery Method:** Fed Ex **Airbill #s:** 7703 8240 5603

Cooler Temps (Raw Measured) °C: Cooler 1: (0.9);

Cooler Temps (Corrected) °C: Cooler 1: (0.9);

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Test Strip Lot #s:	pH 1-12: 231619	pH 12+: 203117A	Other: (Specify) _____
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Comments

SM089-03
Rev. Date 12/7/17

JD54892: Chain of Custody

Page 2 of 2

Technical Report for

Tetra Tech, Inc.

R5 START: Chudnow Metals Site- Milwaukee, WI

103X903100320001DH108

SGS Job Number: JD55122

Sampling Date: 11/03/22

Report to:

Tetra Tech, Inc.
1 South Wacker Drive Suite 3700
Chicago, IL 60606
ALEXIA.SCHOLL@tetrattech.com; Rachel.Houle@tetrattech.com;
Rindy.Mortensen@tetrattech.com; TAYLOR.COOPER@tetrattech.com;
ATTN: Rachel Houle

Total number of pages in report: 5



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

Sample Summary

Tetra Tech, Inc.

Job No: JD55122

R5 START: Chudnow Metals Site- Milwaukee, WI
Project No: 103X903100320001DH108

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD55122-1	11/03/22	11:15 DH	11/07/22	SO	Soil	CM-CS-B2-627-221103
-----------	----------	----------	----------	----	------	---------------------

JD55122-2	11/03/22	14:24 DH	11/07/22	SO	Soil	CM-CS-B1-627-221103
-----------	----------	----------	----------	----	------	---------------------

The reported LOD and LOQ values have been adjusted for dry weight unless otherwise indicated on the results page.
The reported LOD and LOQ values have been adjusted for the same dilution factor as that used for the sample result unless otherwise indicated on the results page. LOD = MDL and LOQ = RL.

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID: CM-CS-B2-627-221103**Lab Sample ID:** JD55122-1**Date Sampled:** 11/03/22**Matrix:** SO - Soil**Date Received:** 11/07/22**Method:** SW846 8082A SW846 3546**Percent Solids:** 85.5**Project:** R5 START: Chudnow Metals Site- Milwaukee, WI

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL2477.D	1	11/10/22 20:08	MLC	11/07/22 14:52	OP43011	GRL40
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	18	ug/kg	
11104-28-2	Aroclor 1221	ND	38	24	ug/kg	
11141-16-5	Aroclor 1232	ND	38	24	ug/kg	
53469-21-9	Aroclor 1242	ND	38	16	ug/kg	
12672-29-6	Aroclor 1248	185	38	34	ug/kg	
11097-69-1	Aroclor 1254	222	38	20	ug/kg	
11096-82-5	Aroclor 1260	ND	38	16	ug/kg	
11100-14-4	Aroclor 1268	ND	38	16	ug/kg	
37324-23-5	Aroclor 1262	45.4	38	25	ug/kg	
1336-36-3	Total PCBs	452	38		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		10-163%
877-09-8	Tetrachloro-m-xylene	87%		10-163%
2051-24-3	Decachlorobiphenyl	82%		10-215%
2051-24-3	Decachlorobiphenyl	105%		10-215%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CM-CS-B1-627-221103**Lab Sample ID:** JD55122-2**Date Sampled:** 11/03/22**Matrix:** SO - Soil**Date Received:** 11/07/22**Method:** SW846 8082A SW846 3546**Percent Solids:** 85.7**Project:** R5 START: Chudnow Metals Site- Milwaukee, WI

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL2478.D	1	11/10/22 20:24	MLC	11/07/22 14:52	OP43011	GRL40
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	18	ug/kg	
11104-28-2	Aroclor 1221	ND	38	24	ug/kg	
11141-16-5	Aroclor 1232	ND	38	24	ug/kg	
53469-21-9	Aroclor 1242	ND	38	16	ug/kg	
12672-29-6	Aroclor 1248	1820	38	34	ug/kg	
11097-69-1	Aroclor 1254	2800	38	21	ug/kg	
11096-82-5	Aroclor 1260	ND	38	16	ug/kg	
11100-14-4	Aroclor 1268	ND	38	16	ug/kg	
37324-23-5	Aroclor 1262	546	38	25	ug/kg	
1336-36-3	Total PCBs	5170	38		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		10-163%
877-09-8	Tetrachloro-m-xylene	89%		10-163%
2051-24-3	Decachlorobiphenyl	93%		10-215%
2051-24-3	Decachlorobiphenyl	181%		10-215%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

ATTACHMENT 5

**CONFIRMATION SOIL SAMPLING ANALYTICAL REPORTS – METALS, 627: 22102336,
22102406, 22102596, 22101597, 22110037, 22110146, 22110205, 22110394, 22110583**



31-Oct-2022

Rachel Houle
Tetra Tech EM Inc.
1 South Wacker Dr
Suite 3700
Chicago, IL 60606

Re: **Chudnow Metals**

Work Order: **22102336**

Dear Rachel,

ALS Environmental received 3 samples on 25-Oct-2022 08:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 14.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22102336

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22102336-01	CM-CS-D4-627-221024	Soil		10/24/2022 11:36	10/25/2022 08:30	<input type="checkbox"/>
22102336-02	CM-CS-E4-627-221024	Soil		10/24/2022 09:31	10/25/2022 08:30	<input type="checkbox"/>
22102336-03	CM-CS-F4-627-221024	Soil		10/24/2022 07:39	10/25/2022 08:30	<input type="checkbox"/>

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22102336

Case Narrative

Samples for the above noted Work Order were received on 10/25/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Metals:

No other deviations or anomalies were noted.

Wet Chemistry:

No other deviations or anomalies were noted.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group, USA

Date: 31-Oct-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-D4-627-221024
Collection Date: 10/24/2022 11:36 AM

Work Order: 22102336
Lab ID: 22102336-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 10/26/22		Analyst: KRA
Mercury	15		1.3	2.0	mg/Kg-dry	100	10/27/2022 12:08
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 10/27/22		Analyst: DSC
Arsenic	27		0.044	0.36	mg/Kg-dry	1	10/27/2022 22:20
Barium	1,600		33	36	mg/Kg-dry	100	10/28/2022 17:25
Cadmium	29		0.022	0.15	mg/Kg-dry	1	10/27/2022 22:20
Chromium	220		1.6	3.6	mg/Kg-dry	10	10/28/2022 17:27
Lead	4,000		17	36	mg/Kg-dry	100	10/28/2022 17:25
Selenium	3.4		0.33	0.36	mg/Kg-dry	1	10/27/2022 22:20
Silver	2.9		0.048	0.36	mg/Kg-dry	1	10/27/2022 22:20
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	17		0.10	0.10	% of sample	1	10/26/2022 13:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 31-Oct-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-E4-627-221024
Collection Date: 10/24/2022 09:31 AM

Work Order: 22102336
Lab ID: 22102336-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 10/26/22		Analyst: KRA
Mercury	15		1.6	2.4	mg/Kg-dry	100	10/27/2022 12:09
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 10/27/22		Analyst: DSC
Arsenic	21		0.043	0.36	mg/Kg-dry	1	10/27/2022 22:23
Barium	520		3.3	3.6	mg/Kg-dry	10	10/28/2022 17:28
Cadmium	20		0.022	0.14	mg/Kg-dry	1	10/27/2022 22:23
Chromium	94		0.16	0.36	mg/Kg-dry	1	10/27/2022 22:23
Lead	1,200		1.7	3.6	mg/Kg-dry	10	10/28/2022 17:28
Selenium	2.0		0.33	0.36	mg/Kg-dry	1	10/27/2022 22:23
Silver	1.9		0.047	0.36	mg/Kg-dry	1	10/27/2022 22:23
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	21		0.10	0.10	% of sample	1	10/26/2022 13:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 31-Oct-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-F4-627-221024
Collection Date: 10/24/2022 07:39 AM

Work Order: 22102336
Lab ID: 22102336-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 10/26/22		Analyst: KRA
Mercury	28		1.3	1.9	mg/Kg-dry	100	10/27/2022 12:17
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 10/27/22		Analyst: DSC
Arsenic	47		0.037	0.31	mg/Kg-dry	1	10/27/2022 23:12
Barium	1,600		29	31	mg/Kg-dry	100	10/28/2022 17:30
Cadmium	35		0.019	0.12	mg/Kg-dry	1	10/27/2022 23:12
Chromium	170		1.4	3.1	mg/Kg-dry	10	10/28/2022 17:32
Lead	3,700		15	31	mg/Kg-dry	100	10/28/2022 17:30
Selenium	2.1		0.29	0.31	mg/Kg-dry	1	10/27/2022 23:12
Silver	3.4		0.041	0.31	mg/Kg-dry	1	10/27/2022 23:12
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	17		0.10	0.10	% of sample	1	10/26/2022 13:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Tetra Tech EM Inc.
Work Order: 22102336
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205540** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-205540-205540				Units: mg/Kg		Analysis Date: 10/27/2022 10:13 AM		
Client ID:		Run ID: HG4_221027A				SeqNo: 8944752		Prep Date: 10/26/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.020

LCS		Sample ID: LCS-205540-205540				Units: mg/Kg		Analysis Date: 10/27/2022 10:15 AM		
Client ID:		Run ID: HG4_221027A				SeqNo: 8944753		Prep Date: 10/26/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.16 0.020 0.1665 0 96.1 80-120 0

MS		Sample ID: 22101962-01BMS				Units: mg/Kg		Analysis Date: 10/27/2022 10:26 AM		
Client ID:		Run ID: HG4_221027A				SeqNo: 8944759		Prep Date: 10/26/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1528 0.020 0.1632 0.01274 85.8 75-125 0

MSD		Sample ID: 22101962-01BMSD				Units: mg/Kg		Analysis Date: 10/27/2022 10:27 AM		
Client ID:		Run ID: HG4_221027A				SeqNo: 8944760		Prep Date: 10/26/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1517 0.019 0.1571 0.01274 88.5 75-125 0.1528 0.688 35

The following samples were analyzed in this batch:

22102336-01A

Client: Tetra Tech EM Inc.
Work Order: 22102336
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205551** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-205551-205551				Units: mg/Kg		Analysis Date: 10/27/2022 11:09 AM		
Client ID:		Run ID: HG4_221027A				SeqNo: 8944782		Prep Date: 10/26/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.020								

LCS		Sample ID: LCS-205551-205551				Units: mg/Kg		Analysis Date: 10/27/2022 11:11 AM		
Client ID:		Run ID: HG4_221027A				SeqNo: 8944783		Prep Date: 10/26/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1742	0.020	0.1665	0	105	80-120	0			

MS		Sample ID: 22102350-01BMS				Units: mg/Kg		Analysis Date: 10/27/2022 12:04 PM		
Client ID:		Run ID: HG4_221027A				SeqNo: 8944810		Prep Date: 10/26/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.169	0.019	0.1542	0.01424	100	75-125	0			

MSD		Sample ID: 22102350-01BMSD				Units: mg/Kg		Analysis Date: 10/27/2022 12:06 PM		
Client ID:		Run ID: HG4_221027A				SeqNo: 8944811		Prep Date: 10/26/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.157	0.018	0.148	0.01424	96.5	75-125	0.169	7.33	35	

The following samples were analyzed in this batch:

22102336-02A 22102336-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22102336
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205592** Instrument ID **ICPMS4** Method: **SW6020B**

Sample ID: MBLK-205592-205592				Units: mg/Kg		Analysis Date: 10/27/2022 09:43 PM				
Client ID:		Run ID: ICPMS4_221027B			SeqNo: 8949006		Prep Date: 10/27/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.08635	0.25								J
Barium	U	0.25								
Cadmium	U	0.10								
Chromium	0.2138	0.25								J
Lead	U	0.25								
Selenium	U	0.25								
Silver	0.0533	0.25								J

LCS				Sample ID: LCS-205592-205592				Units: mg/Kg		Analysis Date: 10/27/2022 09:46 PM		
Client ID:			Run ID: ICPMS4_221027B			SeqNo: 8949007		Prep Date: 10/27/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Arsenic	4.78	0.25	5	0	95.6	80-120	0					
Barium	4.97	0.25	5	0	99.4	80-120	0					
Cadmium	4.845	0.10	5	0	96.9	80-120	0					
Chromium	4.854	0.25	5	0	97.1	80-120	0					
Lead	4.823	0.25	5	0	96.5	80-120	0					
Selenium	4.76	0.25	5	0	95.2	80-120	0					
Silver	4.979	0.25	5	0	99.6	80-120	0					

MS				Sample ID: 22102297-01BMS			Units: mg/Kg		Analysis Date: 10/27/2022 09:50 PM		
Client ID:			Run ID: ICPMS4_221027B			SeqNo: 8949009		Prep Date: 10/27/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	5.941	0.25	5.081	0.971	97.8	75-125	0			SO	
Barium	24.44	0.25	5.081	31.71	-143	75-125	0				
Cadmium	5.069	0.10	5.081	0.03522	99.1	75-125	0				
Chromium	6.828	0.25	5.081	1.419	106	75-125	0				
Lead	9.647	0.25	5.081	4.784	95.7	75-125	0				
Selenium	4.894	0.25	5.081	0	96.3	75-125	0				
Silver	5.161	0.25	5.081	0.04631	101	75-125	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22102336
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205592** Instrument ID **ICPMS4** Method: **SW6020B**

MSD				Sample ID: 22102297-01BMSD			Units: mg/Kg		Analysis Date: 10/27/2022 09:52 PM	
Client ID:		Run ID: ICPMS4_221027B			SeqNo: 8949010		Prep Date: 10/27/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.848	0.25	5.04	0.971	96.8	75-125	5.941	1.57	20	
Barium	22.92	0.25	5.04	31.71	-174	75-125	24.44	6.41	20	SO
Cadmium	5.038	0.10	5.04	0.03522	99.3	75-125	5.069	0.617	20	
Chromium	6.709	0.25	5.04	1.419	105	75-125	6.828	1.76	20	
Lead	9.411	0.25	5.04	4.784	91.8	75-125	9.647	2.48	20	
Selenium	4.89	0.25	5.04	0	97	75-125	4.894	0.0846	20	
Silver	5.078	0.25	5.04	0.04631	99.8	75-125	5.161	1.62	20	

The following samples were analyzed in this batch: 22102336-01A 22102336-02A 22102336-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22102336
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **R356660** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R356660				Units: % of sample		Analysis Date: 10/26/2022 01:50 PM		
Client ID:		Run ID: MOIST_221026B				SeqNo: 8943106		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS		Sample ID: LCS-R356660				Units: % of sample		Analysis Date: 10/26/2022 01:50 PM		
Client ID:		Run ID: MOIST_221026B				SeqNo: 8943105		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.10	100	0	100	98-102	0			

DUP		Sample ID: 22102329-02B DUP				Units: % of sample		Analysis Date: 10/26/2022 01:50 PM		
Client ID:		Run ID: MOIST_221026B				SeqNo: 8943099		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.83	0.10	0	0	0	0-0	6.6	3.43	10	

DUP		Sample ID: 22102336-01A DUP				Units: % of sample		Analysis Date: 10/26/2022 01:50 PM		
Client ID: CM-CS-D4-627-221024		Run ID: MOIST_221026B				SeqNo: 8943102		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	16.68	0.10	0	0	0	0-0	16.63	0.3	10	

The following samples were analyzed in this batch:

22102336-01A	22102336-02A	22102336-03A
--------------	--------------	--------------

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Sample Receipt Checklist

Client Name: **TETRATECH-EM-CHI**

Date/Time Received: **25-Oct-22 08:30**

Work Order: **22102336**

Received by: **DS**

Checklist completed by **Diane Shaw**

26-Oct-22

Reviewed by: **Chad Whelton**

27-Oct-22

eSignature

Date

eSignature

Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

4.5/5.5 c

IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

10/26/2022 12:12:22 PM

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



02-Nov-2022

Rachel Houle
Tetra Tech EM Inc.
1 South Wacker Dr
Suite 3700
Chicago, IL 60606

Re: **Chudnow Metals**

Work Order: **22102406**

Dear Rachel,

ALS Environmental received 3 samples on 26-Oct-2022 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 13.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22102406

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22102406-01	CM-CS-A4-627-221025	Soil		10/25/2022 08:37	10/26/2022 09:00	<input type="checkbox"/>
22102406-02	CM-CS-B4-627-221025	Soil		10/25/2022 09:30	10/26/2022 09:00	<input type="checkbox"/>
22102406-03	CM-CS-F1-627-221025	Soil		10/25/2022 11:47	10/26/2022 09:00	<input type="checkbox"/>

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22102406

Case Narrative

Samples for the above noted Work Order were received on 10/26/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Metals:

Batch 205668, Method SW6020B, Sample CM-CS-A4-627-221025 (22102406-01A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Selenium.

Batch 205668, Method SW6020B, Sample CM-CS-B4-627-221025 (22102406-02A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Selenium.

Wet Chemistry:

No other deviations or anomalies were noted.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group, USA

Date: 02-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-A4-627-221025
Collection Date: 10/25/2022 08:37 AM

Work Order: 22102406
Lab ID: 22102406-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 10/27/22		Analyst: KRA
Mercury	5.3		1.4	2.1	mg/Kg-dry	100	10/28/2022 11:49
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 10/28/22		Analyst: STP
Arsenic	12		0.38	3.2	mg/Kg-dry	10	10/28/2022 21:00
Barium	300		2.9	3.2	mg/Kg-dry	10	10/28/2022 21:00
Cadmium	12		0.19	1.3	mg/Kg-dry	10	10/28/2022 21:00
Chromium	68		1.4	3.2	mg/Kg-dry	10	10/28/2022 21:00
Lead	2,400		15	32	mg/Kg-dry	100	10/31/2022 13:50
Selenium	U		2.9	3.2	mg/Kg-dry	10	10/28/2022 21:00
Silver	1.6	J	0.42	3.2	mg/Kg-dry	10	10/28/2022 21:00
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	11		0.10	0.10	% of sample	1	10/27/2022 13:12

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 02-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-B4-627-221025
Collection Date: 10/25/2022 09:30 AM

Work Order: 22102406
Lab ID: 22102406-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 10/27/22		Analyst: KRA
Mercury	8.4		1.6	2.3	mg/Kg-dry	100	10/28/2022 11:51
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 10/28/22		Analyst: STP
Arsenic	18		0.38	3.2	mg/Kg-dry	10	10/28/2022 21:02
Barium	460		2.9	3.2	mg/Kg-dry	10	10/28/2022 21:02
Cadmium	14		0.19	1.3	mg/Kg-dry	10	10/28/2022 21:02
Chromium	320		1.4	3.2	mg/Kg-dry	10	10/28/2022 21:02
Lead	790		1.5	3.2	mg/Kg-dry	10	10/28/2022 21:02
Selenium	U		2.9	3.2	mg/Kg-dry	10	10/28/2022 21:02
Silver	1.5	J	0.42	3.2	mg/Kg-dry	10	10/28/2022 21:02
MOISTURE							
			Method: SW3550C				Analyst: ALG
Moisture	15		0.10	0.10	% of sample	1	10/27/2022 13:12

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 02-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-F1-627-221025
Collection Date: 10/25/2022 11:47 AM

Work Order: 22102406
Lab ID: 22102406-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 10/27/22		Analyst: KRA
Mercury	0.23		0.013	0.019	mg/Kg-dry	1	10/28/2022 11:32
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 10/28/22		Analyst: STP
Arsenic	4.8		0.039	0.33	mg/Kg-dry	1	10/28/2022 21:04
Barium	84		0.30	0.33	mg/Kg-dry	1	10/28/2022 21:04
Cadmium	0.48		0.020	0.13	mg/Kg-dry	1	10/28/2022 21:04
Chromium	16		0.14	0.33	mg/Kg-dry	1	10/28/2022 21:04
Lead	130		1.6	3.3	mg/Kg-dry	10	10/31/2022 13:52
Selenium	U		0.30	0.33	mg/Kg-dry	1	10/28/2022 21:04
Silver	0.099	J	0.043	0.33	mg/Kg-dry	1	10/28/2022 21:04
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	14		0.10	0.10	% of sample	1	10/27/2022 13:12

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Tetra Tech EM Inc.
Work Order: 22102406
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205626** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-205626-205626					Units: mg/Kg		Analysis Date: 10/28/2022 10:49 AM		
Client ID:		Run ID: HG4_221028A					SeqNo: 8949352		Prep Date: 10/27/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury U 0.020

LCS		Sample ID: LCS-205626-205626					Units: mg/Kg		Analysis Date: 10/28/2022 10:51 AM		
Client ID:			Run ID: HG4_221028A			SeqNo: 8949353		Prep Date: 10/27/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1658 0.020 0.1665 0 99.6 80-120 0

MS		Sample ID: 22102244-01AMS					Units: mg/Kg		Analysis Date: 10/28/2022 10:55 AM		
Client ID:			Run ID: HG4_221028A			SeqNo: 8949355		Prep Date: 10/27/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.2063 0.018 0.1532 0.0836 80.1 75-125 0

MSD		Sample ID: 22102244-01AMSD					Units: mg/Kg		Analysis Date: 10/28/2022 10:57 AM		
Client ID:			Run ID: HG4_221028A			SeqNo: 8949356		Prep Date: 10/27/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1612 0.019 0.1549 0.0836 50.1 75-125 0.2063 24.5 35 S

The following samples were analyzed in this batch:

22102406-01A	22102406-02A	22102406-03A
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Client: Tetra Tech EM Inc.
Work Order: 22102406
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205668** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: MBLK-205668-205668				Units: mg/Kg		Analysis Date: 10/28/2022 08:54 PM				
Client ID:		Run ID: ICPMS3_221028B		SeqNo: 8954373		Prep Date: 10/28/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Chromium	U	0.25								
Lead	U	0.25								

MBLK Sample ID: MBLK-205668-205668				Units: mg/Kg		Analysis Date: 10/31/2022 01:46 PM				
Client ID:		Run ID: ICPMS3_221031B		SeqNo: 8956752		Prep Date: 10/28/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	U	0.25								

LCS Sample ID: LCS-205668-205668				Units: mg/Kg		Analysis Date: 10/28/2022 08:55 PM				
Client ID:		Run ID: ICPMS3_221028B		SeqNo: 8954374		Prep Date: 10/28/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.054	0.25	5	0	101	80-120	0			
Barium	5.232	0.25	5	0	105	80-120	0			
Cadmium	5.088	0.10	5	0	102	80-120	0			
Chromium	5.169	0.25	5	0	103	80-120	0			
Lead	5.187	0.25	5	0	104	80-120	0			
Selenium	5.044	0.25	5	0	101	80-120	0			B

MS Sample ID: 22102523-01AMS				Units: mg/Kg		Analysis Date: 10/28/2022 09:08 PM				
Client ID:		Run ID: ICPMS3_221028B		SeqNo: 8954381		Prep Date: 10/28/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	15.28	0.28	5.695	8.802	114	75-125	0			
Barium	64.71	0.28	5.695	37.78	473	75-125	0			SO
Cadmium	4.295	0.11	5.695	-0.009507	75.6	75-125	0			
Chromium	14.13	0.28	5.695	5.955	144	75-125	0			S
Lead	12.52	0.28	5.695	4.589	139	75-125	0			S
Selenium	4.637	0.28	5.695	0.1883	78.1	75-125	0			B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22102406
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205668** Instrument ID **ICPMS3** Method: **SW6020B**

MSD		Sample ID: 22102523-01AMSD				Units: mg/Kg		Analysis Date: 10/28/2022 09:10 PM		
Client ID:		Run ID: ICPMS3_221028B				SeqNo: 8954382		Prep Date: 10/28/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	14.47	0.29	5.734	8.802	98.8	75-125	15.28	5.48	20	
Barium	81.68	0.29	5.734	37.78	766	75-125	64.71	23.2	20	SRO
Cadmium	4.521	0.11	5.734	-0.009507	79	75-125	4.295	5.14	20	
Chromium	12.89	0.29	5.734	5.955	121	75-125	14.13	9.17	20	
Lead	11.49	0.29	5.734	4.589	120	75-125	12.52	8.55	20	
Selenium	4.865	0.29	5.734	0.1883	81.6	75-125	4.637	4.81	20	B

The following samples were analyzed in this batch:

22102406-01A 22102406-02A 22102406-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22102406
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **R356774** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R356774				Units: % of sample		Analysis Date: 10/27/2022 01:12 PM		
Client ID:		Run ID: MOIST_221027B				SeqNo: 8948581		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS		Sample ID: LCS-R356774				Units: % of sample		Analysis Date: 10/27/2022 01:12 PM		
Client ID:		Run ID: MOIST_221027B				SeqNo: 8948580		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.10	100	0	100	98-102	0			

DUP		Sample ID: 22102316-11A DUP				Units: % of sample		Analysis Date: 10/27/2022 01:12 PM		
Client ID:		Run ID: MOIST_221027B				SeqNo: 8948559		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	63.37	0.10	0	0	0	0-0	63.85	0.755	10	

DUP		Sample ID: 22102316-21A DUP				Units: % of sample		Analysis Date: 10/27/2022 01:12 PM		
Client ID:		Run ID: MOIST_221027B				SeqNo: 8948570		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	80.63	0.10	0	0	0	0-0	77.98	3.34	10	

The following samples were analyzed in this batch:

22102406-01A	22102406-02A	22102406-03A
--------------	--------------	--------------

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

Sample Receipt Checklist

Client Name: **TETRATECH-EM-CHI**

Date/Time Received: **26-Oct-22 09:00**

Work Order: **22102406**

Received by: **DS**

Checklist completed by **Diane Shaw**

27-Oct-22

Reviewed by: **Chad Whelton**

28-Oct-22

eSignature

Date

eSignature

Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

4.8/5.8 c

IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

10/27/2022 8:05:53 AM

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



04-Nov-2022

Rachel Houle
Tetra Tech EM Inc.
1 South Wacker Dr
Suite 3700
Chicago, IL 60606

Re: **Chudnow Metals**

Work Order: **22102596**

Dear Rachel,

ALS Environmental received 3 samples on 28-Oct-2022 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 13.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22102596

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22102596-01	CM-CS-E1-G27-221026	Soil		10/26/2022 14:52	10/28/2022 10:00	<input type="checkbox"/>
22102596-02	CM-CS-E2-G27-221026	Soil		10/26/2022 16:45	10/28/2022 10:00	<input type="checkbox"/>
22102596-03	CM-CS-E3-G27-221026	Soil		10/26/2022 16:55	10/28/2022 10:00	<input type="checkbox"/>

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22102596

Case Narrative

Samples for the above noted Work Order were received on 10/28/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Metals:

No other deviations or anomalies were noted.

Wet Chemistry:

No other deviations or anomalies were noted.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group, USA

Date: 04-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-E1-G27-221026
Collection Date: 10/26/2022 02:52 PM

Work Order: 22102596
Lab ID: 22102596-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 10/31/22		Analyst: KRA
Mercury	1.8		0.14	0.21	mg/Kg-dry	10	11/1/2022 11:52
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/1/22		Analyst: STP
Arsenic	7.0		0.043	0.36	mg/Kg-dry	1	11/1/2022 22:11
Barium	150		33	36	mg/Kg-dry	100	11/2/2022 16:39
Cadmium	8.6		0.021	0.14	mg/Kg-dry	1	11/1/2022 22:11
Chromium	27		0.16	0.36	mg/Kg-dry	1	11/1/2022 22:11
Lead	1,600		17	36	mg/Kg-dry	100	11/2/2022 16:39
Selenium	0.92		0.33	0.36	mg/Kg-dry	1	11/1/2022 22:11
Silver	0.73		0.047	0.36	mg/Kg-dry	1	11/1/2022 22:11
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	16		0.10	0.10	% of sample	1	10/31/2022 13:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 04-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-E2-G27-221026
Collection Date: 10/26/2022 04:45 PM

Work Order: 22102596
Lab ID: 22102596-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 10/31/22		Analyst: KRA
Mercury	0.92		0.13	0.20	mg/Kg-dry	10	11/1/2022 11:54
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/1/22		Analyst: STP
Arsenic	13		0.036	0.30	mg/Kg-dry	1	11/1/2022 22:13
Barium	90		0.28	0.30	mg/Kg-dry	1	11/1/2022 22:13
Cadmium	1.3		0.018	0.12	mg/Kg-dry	1	11/1/2022 22:13
Chromium	18		0.13	0.30	mg/Kg-dry	1	11/1/2022 22:13
Lead	20,000		150	300	mg/Kg-dry	1000	11/3/2022 14:59
Selenium	0.77		0.28	0.30	mg/Kg-dry	1	11/1/2022 22:13
Silver	4.0		0.040	0.30	mg/Kg-dry	1	11/1/2022 22:13
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	13		0.10	0.10	% of sample	1	10/31/2022 13:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 04-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-E3-G27-221026
Collection Date: 10/26/2022 04:55 PM

Work Order: 22102596
Lab ID: 22102596-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 10/31/22		Analyst: KRA
Mercury	9.1		1.6	2.4	mg/Kg-dry	100	11/1/2022 11:56
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/1/22		Analyst: STP
Arsenic	14		0.039	0.33	mg/Kg-dry	1	11/1/2022 22:15
Barium	710		30	33	mg/Kg-dry	100	11/2/2022 16:42
Cadmium	14		0.020	0.13	mg/Kg-dry	1	11/1/2022 22:15
Chromium	68		0.14	0.33	mg/Kg-dry	1	11/1/2022 22:15
Lead	2,500		16	33	mg/Kg-dry	100	11/2/2022 16:42
Selenium	2.4		0.30	0.33	mg/Kg-dry	1	11/1/2022 22:15
Silver	1.6		0.043	0.33	mg/Kg-dry	1	11/1/2022 22:15
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	20		0.10	0.10	% of sample	1	10/31/2022 13:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Tetra Tech EM Inc.
Work Order: 22102596
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205757** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-205757-205757				Units: mg/Kg		Analysis Date: 11/1/2022 10:21 AM		
Client ID:		Run ID: HG4_221101A				SeqNo: 8959851		Prep Date: 10/31/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.020								

LCS		Sample ID: LCS-205757-205757				Units: mg/Kg		Analysis Date: 11/1/2022 10:23 AM		
Client ID:		Run ID: HG4_221101A				SeqNo: 8959852		Prep Date: 10/31/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1767	0.020	0.1665	0	106	80-120	0			

MS		Sample ID: 22102544-14BMS				Units: mg/Kg		Analysis Date: 11/1/2022 10:45 AM		
Client ID:		Run ID: HG4_221101A				SeqNo: 8959864		Prep Date: 10/31/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.2044	0.018	0.148	0.06727	92.7	75-125	0			

MSD		Sample ID: 22102544-14BMSD				Units: mg/Kg		Analysis Date: 11/1/2022 10:48 AM		
Client ID:		Run ID: HG4_221101A				SeqNo: 8959865		Prep Date: 10/31/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1855	0.018	0.1465	0.06727	80.7	75-125	0.2044	9.73	35	

The following samples were analyzed in this batch:

22102596-01A 22102596-02A 22102596-03A

Client: Tetra Tech EM Inc.
Work Order: 22102596
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205794** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: MBLK-205794-205794				Units: mg/Kg		Analysis Date: 11/1/2022 09:20 PM				
Client ID:		Run ID: ICPMS3_221101B		SeqNo: 8963178		Prep Date: 11/1/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Chromium	U	0.25								
Lead	U	0.25								
Selenium	U	0.25								
Silver	U	0.25								

LCS Sample ID: LCS-205794-205794				Units: mg/Kg		Analysis Date: 11/2/2022 04:25 PM				
Client ID:		Run ID: ICPMS3_221102B		SeqNo: 8966911		Prep Date: 11/1/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.2	0.25	5	0	84	80-120	0			
Barium	4.268	0.25	5	0	85.4	80-120	0			
Cadmium	4.311	0.10	5	0	86.2	80-120	0			
Chromium	4.351	0.25	5	0	87	80-120	0			
Lead	4.218	0.25	5	0	84.4	80-120	0			
Selenium	4.432	0.25	5	0	88.6	80-120	0			
Silver	4.895	0.25	5	0	97.9	80-120	0			

MS Sample ID: 22102633-02BMS				Units: mg/Kg		Analysis Date: 11/1/2022 11:01 PM				
Client ID:		Run ID: ICPMS3_221101B		SeqNo: 8963225		Prep Date: 11/1/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.972	0.29	5.828	0.6189	91.9	75-125	0			
Barium	17.44	0.29	5.828	9.784	131	75-125	0			S
Cadmium	5.84	0.12	5.828	-0.01211	100	75-125	0			
Lead	6.78	0.29	5.828	0.8791	101	75-125	0			
Selenium	5.675	0.29	5.828	0.1516	94.8	75-125	0			
Silver	5.754	0.29	5.828	0.001384	98.7	75-125	0			

MS Sample ID: 22102633-02BMS				Units: mg/Kg		Analysis Date: 11/2/2022 04:54 PM				
Client ID:		Run ID: ICPMS3_221102B		SeqNo: 8966928		Prep Date: 11/1/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	7.783	0.29	5.828	1.682	105	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22102596
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205794** Instrument ID **ICPMS3** Method: **SW6020B**

MSD				Sample ID: 22102633-02BMSD			Units: mg/Kg		Analysis Date: 11/1/2022 11:03 PM	
Client ID:		Run ID: ICPMS3_221101B			SeqNo: 8963226		Prep Date: 11/1/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.952	0.30	5.981	0.6189	89.2	75-125	5.972	0.337	20	
Barium	16.33	0.30	5.981	9.784	109	75-125	17.44	6.56	20	
Cadmium	6.024	0.12	5.981	-0.01211	101	75-125	5.84	3.1	20	
Lead	6.808	0.30	5.981	0.8791	99.1	75-125	6.78	0.416	20	
Selenium	5.782	0.30	5.981	0.1516	94.1	75-125	5.675	1.87	20	
Silver	5.78	0.30	5.981	0.001384	96.6	75-125	5.754	0.451	20	

MSD				Sample ID: 22102633-02BMSD			Units: mg/Kg		Analysis Date: 11/2/2022 04:59 PM	
Client ID:		Run ID: ICPMS3_221102B			SeqNo: 8966931		Prep Date: 11/1/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	7.808	0.30	5.981	1.682	102	75-125	7.783	0.323	20	

The following samples were analyzed in this batch:

22102596-01A 22102596-02A 22102596-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22102596
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **R357017** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R357017				Units: % of sample		Analysis Date: 10/31/2022 01:01 PM		
Client ID:		Run ID: MOIST_221031B		SeqNo: 8958622		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS		Sample ID: LCS-R357017				Units: % of sample		Analysis Date: 10/31/2022 01:01 PM		
Client ID:		Run ID: MOIST_221031B		SeqNo: 8958621		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.10	100	0	100	98-102	0			

DUP		Sample ID: 22102596-01A DUP				Units: % of sample		Analysis Date: 10/31/2022 01:01 PM		
Client ID: CM-CS-E1-G27-221026		Run ID: MOIST_221031B		SeqNo: 8958601		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	16.76	0.10	0	0	0	0-0	16.36	2.42	10	

DUP		Sample ID: 22102597-01A DUP				Units: % of sample		Analysis Date: 10/31/2022 01:01 PM		
Client ID:		Run ID: MOIST_221031B		SeqNo: 8958605		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	11.96	0.10	0	0	0	0-0	11.41	4.71	10	

The following samples were analyzed in this batch:

22102596-01A	22102596-02A	22102596-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Chain of Custody Form

ALS Group USA, Corp

Work Order

Company Name	Tetra Tech EM Inc.	Purchase Order		Parameter/Method Request for Analysis	
Send Report To	Rachel Houle	Company Name	Tetra Tech EM Inc.	A	RCRA 8 Metals
Project Name		Invoice Attn	Accounts Payable	B	
Address	1 South Wacker Dr Suite 3700	Project #		C	
City/State/Zip	Chicago, IL 60606	Address	1 South Wacker Dr Suite 3700 Suite 3700	<div>22102596</div> <div>TETRATECH-FM-CHI: Tetra Tech FM Inc. Project:</div>	
Phone	3122017411	City/State/Zip	Chicago, IL 60606		
e-Mail Address		Phone	3122017411		

#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	H	I	J	Sample Notes
1	CM-CS-E1-627-221026	10/26/22	1452	Soil	8	1	X										
2	CM-CS-E2-627-221026	10/26/22	1645	Soil	8	1	X										
3	CM-CS-E3-627-221026	10/26/22	1655	Soil	8	1	X										
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.						Required Turnaround Time: Std 10 Wk days <input type="checkbox"/> 5 Wk days <input checked="" type="checkbox"/> 2 Wk days <input type="checkbox"/> 24 hr <input type="checkbox"/>		Results Due:
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035								
Relinquished by	Date	Time	Received by	Date	Time	NOTES:		
	10/26/22	1705		10/28/22	1000	3.2°C IR3		
						QC Reporting Level: (check box below)		
						Level II: Standard QC		
						Level III: Std QC + Raw data		
						Level IV: SW846 CLP-Like		

Sample Receipt Checklist

Client Name: **TETRATECH-EM-CHI**

Date/Time Received: **28-Oct-22 10:00**

Work Order: **22102596**

Received by: **KRW**

Checklist completed by **Keith Wierenga**

28-Oct-22

Reviewed by: **Chad Whelton**

30-Oct-22

eSignature

Date

eSignature

Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

3.2/4.2 C

IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

10/28/2022 1:27:30 PM

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



08-Nov-2022

Rachel Houle
Tetra Tech EM Inc.
1 South Wacker Dr
Suite 3700
Chicago, IL 60606

Re: **Chudnow Metals**

Work Order: **22102597**

Dear Rachel,

Revision: **1**

ALS Environmental received 5 samples on 28-Oct-2022 10:00 AM for the analyses presented in the following report.

This is a REVISED REPORT. The Case Narrative provides information discussing the reason for issuing a revised report.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 60 days unless storage arrangements are made.

The total number of pages in this report revision is 16.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22102597

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22102597-01	CM-CS-G1-627-221027	Soil		10/27/2022 08:45	10/28/2022 10:00	<input type="checkbox"/>
22102597-02	CM-CS-F3-627-221027	Soil		10/27/2022 13:40	10/28/2022 10:00	<input type="checkbox"/>
22102597-03	CM-CS-D3-627-221027	Soil		10/27/2022 14:53	10/28/2022 10:00	<input type="checkbox"/>
22102597-04	CM-CS-A3-627-221027	Soil		10/27/2022 16:00	10/28/2022 10:00	<input type="checkbox"/>
22102597-05	CM-CS-B3-627-221027	Soil		10/27/2022 16:10	10/28/2022 10:00	<input type="checkbox"/>

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22102597

Case Narrative

Samples for the above noted Work Order were received on 10/28/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Metals:

No other deviations or anomalies were noted.

Wet Chemistry:

No other deviations or anomalies were noted.

Revised report issued 11/8/22 due to incorrect sample IDs. All IDs have been updated from G27 to 627. No data has been changed.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-G1-627-221027
Collection Date: 10/27/2022 08:45 AM

Work Order: 22102597
Lab ID: 22102597-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 10/31/22		Analyst: KRA
Mercury	0.14		0.013	0.019	mg/Kg-dry	1	11/1/2022 11:02
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/1/22		Analyst: STP
Arsenic	2.7		0.036	0.30	mg/Kg-dry	1	11/1/2022 22:17
Barium	36		0.28	0.30	mg/Kg-dry	1	11/1/2022 22:17
Cadmium	0.29		0.018	0.12	mg/Kg-dry	1	11/1/2022 22:17
Chromium	5.2		0.13	0.30	mg/Kg-dry	1	11/1/2022 22:17
Lead	100		0.14	0.30	mg/Kg-dry	1	11/1/2022 22:17
Selenium	0.39		0.28	0.30	mg/Kg-dry	1	11/1/2022 22:17
Silver	0.062	J	0.040	0.30	mg/Kg-dry	1	11/1/2022 22:17
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	11		0.10	0.10	% of sample	1	10/31/2022 13:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

AR Page 1 of 5

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-F3-627-221027
Collection Date: 10/27/2022 01:40 PM

Work Order: 22102597
Lab ID: 22102597-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 10/31/22		Analyst: KRA
Mercury	12		1.4	2.1	mg/Kg-dry	100	11/1/2022 11:57
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/1/22		Analyst: STP
Arsenic	45		0.040	0.33	mg/Kg-dry	1	11/1/2022 22:19
Barium	4,500		31	33	mg/Kg-dry	100	11/2/2022 16:44
Cadmium	47		0.020	0.13	mg/Kg-dry	1	11/1/2022 22:19
Chromium	160		15	33	mg/Kg-dry	100	11/2/2022 16:44
Lead	9,100		16	33	mg/Kg-dry	100	11/2/2022 16:44
Selenium	2.3		0.31	0.33	mg/Kg-dry	1	11/1/2022 22:19
Silver	2.2		0.044	0.33	mg/Kg-dry	1	11/1/2022 22:19
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	23		0.10	0.10	% of sample	1	10/31/2022 14:24

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

AR Page 2 of 5

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-D3-627-221027
Collection Date: 10/27/2022 02:53 PM

Work Order: 22102597
Lab ID: 22102597-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 10/31/22		Analyst: KRA
Mercury	20		1.5	2.1	mg/Kg-dry	100	11/1/2022 12:05
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/1/22		Analyst: STP
Arsenic	180		4.5	37	mg/Kg-dry	100	11/2/2022 16:45
Barium	680		34	37	mg/Kg-dry	100	11/2/2022 16:45
Cadmium	28		0.022	0.15	mg/Kg-dry	1	11/1/2022 22:21
Chromium	730		16	37	mg/Kg-dry	100	11/2/2022 16:45
Lead	5,300		18	37	mg/Kg-dry	100	11/2/2022 16:45
Selenium	2.0		0.34	0.37	mg/Kg-dry	1	11/1/2022 22:21
Silver	2.8		0.049	0.37	mg/Kg-dry	1	11/1/2022 22:21
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	20		0.10	0.10	% of sample	1	10/31/2022 14:24

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

AR Page 3 of 5

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-A3-627-221027
Collection Date: 10/27/2022 04:00 PM

Work Order: 22102597
Lab ID: 22102597-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 10/31/22		Analyst: KRA
Mercury	8.1		1.5	2.3	mg/Kg-dry	100	11/1/2022 12:06
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/1/22		Analyst: STP
Arsenic	13		0.040	0.34	mg/Kg-dry	1	11/1/2022 22:54
Barium	630		3.1	3.4	mg/Kg-dry	10	11/2/2022 16:47
Cadmium	13		0.020	0.13	mg/Kg-dry	1	11/1/2022 22:54
Chromium	110		1.5	3.4	mg/Kg-dry	10	11/2/2022 16:47
Lead	1,500		16	34	mg/Kg-dry	100	11/3/2022 15:01
Selenium	1.2		0.31	0.34	mg/Kg-dry	1	11/1/2022 22:54
Silver	1.4		0.045	0.34	mg/Kg-dry	1	11/1/2022 22:54
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	15		0.10	0.10	% of sample	1	10/31/2022 14:24

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

AR Page 4 of 5

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-B3-627-221027
Collection Date: 10/27/2022 04:10 PM

Work Order: 22102597
Lab ID: 22102597-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 10/31/22		Analyst: KRA
Mercury	3.7		1.2	1.8	mg/Kg-dry	100	11/1/2022 12:08
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/1/22		Analyst: STP
Arsenic	10		0.040	0.33	mg/Kg-dry	1	11/1/2022 22:56
Barium	350		3.1	3.3	mg/Kg-dry	10	11/2/2022 16:48
Cadmium	38		0.020	0.13	mg/Kg-dry	1	11/1/2022 22:56
Chromium	180		1.5	3.3	mg/Kg-dry	10	11/2/2022 16:48
Lead	1,400		16	33	mg/Kg-dry	100	11/3/2022 15:02
Selenium	1.3		0.31	0.33	mg/Kg-dry	1	11/1/2022 22:56
Silver	1.2		0.044	0.33	mg/Kg-dry	1	11/1/2022 22:56
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	13		0.10	0.10	% of sample	1	10/31/2022 14:24

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

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Client: Tetra Tech EM Inc.
Work Order: 22102597
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205757** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-205757-205757				Units: mg/Kg		Analysis Date: 11/1/2022 10:21 AM		
Client ID:		Run ID: HG4_221101A				SeqNo: 8959851		Prep Date: 10/31/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.020

LCS		Sample ID: LCS-205757-205757				Units: mg/Kg		Analysis Date: 11/1/2022 10:23 AM		
Client ID:		Run ID: HG4_221101A				SeqNo: 8959852		Prep Date: 10/31/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1767 0.020 0.1665 0 106 80-120 0

MS		Sample ID: 22102544-14BMS				Units: mg/Kg		Analysis Date: 11/1/2022 10:45 AM		
Client ID:		Run ID: HG4_221101A				SeqNo: 8959864		Prep Date: 10/31/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.2044 0.018 0.148 0.06727 92.7 75-125 0

MSD		Sample ID: 22102544-14BMSD				Units: mg/Kg		Analysis Date: 11/1/2022 10:48 AM		
Client ID:		Run ID: HG4_221101A				SeqNo: 8959865		Prep Date: 10/31/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1855 0.018 0.1465 0.06727 80.7 75-125 0.2044 9.73 35

The following samples were analyzed in this batch:

22102597-01A	22102597-02A	22102597-03A
22102597-04A	22102597-05A	

Client: Tetra Tech EM Inc.
Work Order: 22102597
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205794** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: MBLK-205794-205794				Units: mg/Kg		Analysis Date: 11/1/2022 09:20 PM				
Client ID:		Run ID: ICPMS3_221101B		SeqNo: 8963178		Prep Date: 11/1/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Chromium	U	0.25								
Lead	U	0.25								
Selenium	U	0.25								
Silver	U	0.25								

LCS Sample ID: LCS-205794-205794				Units: mg/Kg		Analysis Date: 11/2/2022 04:25 PM				
Client ID:		Run ID: ICPMS3_221102B		SeqNo: 8966911		Prep Date: 11/1/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.2	0.25	5	0	84	80-120	0			
Barium	4.268	0.25	5	0	85.4	80-120	0			
Cadmium	4.311	0.10	5	0	86.2	80-120	0			
Chromium	4.351	0.25	5	0	87	80-120	0			
Lead	4.218	0.25	5	0	84.4	80-120	0			
Selenium	4.432	0.25	5	0	88.6	80-120	0			
Silver	4.895	0.25	5	0	97.9	80-120	0			

MS Sample ID: 22102633-02BMS				Units: mg/Kg		Analysis Date: 11/1/2022 11:01 PM				
Client ID:		Run ID: ICPMS3_221101B		SeqNo: 8963225		Prep Date: 11/1/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.972	0.29	5.828	0.6189	91.9	75-125	0			
Barium	17.44	0.29	5.828	9.784	131	75-125	0			S
Cadmium	5.84	0.12	5.828	-0.01211	100	75-125	0			
Lead	6.78	0.29	5.828	0.8791	101	75-125	0			
Selenium	5.675	0.29	5.828	0.1516	94.8	75-125	0			
Silver	5.754	0.29	5.828	0.001384	98.7	75-125	0			

MS Sample ID: 22102633-02BMS				Units: mg/Kg		Analysis Date: 11/2/2022 04:54 PM				
Client ID:		Run ID: ICPMS3_221102B		SeqNo: 8966928		Prep Date: 11/1/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	7.783	0.29	5.828	1.682	105	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: Tetra Tech EM Inc.
Work Order: 22102597
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205794** Instrument ID **ICPMS3** Method: **SW6020B**

MSD				Sample ID: 22102633-02BMSD			Units: mg/Kg		Analysis Date: 11/1/2022 11:03 PM	
Client ID:		Run ID: ICPMS3_221101B			SeqNo: 8963226		Prep Date: 11/1/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.952	0.30	5.981	0.6189	89.2	75-125	5.972	0.337	20	
Barium	16.33	0.30	5.981	9.784	109	75-125	17.44	6.56	20	
Cadmium	6.024	0.12	5.981	-0.01211	101	75-125	5.84	3.1	20	
Lead	6.808	0.30	5.981	0.8791	99.1	75-125	6.78	0.416	20	
Selenium	5.782	0.30	5.981	0.1516	94.1	75-125	5.675	1.87	20	
Silver	5.78	0.30	5.981	0.001384	96.6	75-125	5.754	0.451	20	

MSD				Sample ID: 22102633-02BMSD			Units: mg/Kg		Analysis Date: 11/2/2022 04:59 PM	
Client ID:		Run ID: ICPMS3_221102B			SeqNo: 8966931		Prep Date: 11/1/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	7.808	0.30	5.981	1.682	102	75-125	7.783	0.323	20	

The following samples were analyzed in this batch:

22102597-01A	22102597-02A	22102597-03A
22102597-04A	22102597-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC Page: 3 of 5

Client: Tetra Tech EM Inc.
Work Order: 22102597
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **R357017** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R357017				Units: % of sample		Analysis Date: 10/31/2022 01:01 PM		
Client ID:		Run ID: MOIST_221031B				SeqNo: 8958622		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.10

LCS		Sample ID: LCS-R357017				Units: % of sample		Analysis Date: 10/31/2022 01:01 PM		
Client ID:		Run ID: MOIST_221031B				SeqNo: 8958621		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.10 100 0 100 98-102 0

DUP		Sample ID: 22102596-01A DUP				Units: % of sample		Analysis Date: 10/31/2022 01:01 PM		
Client ID:		Run ID: MOIST_221031B				SeqNo: 8958601		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 16.76 0.10 0 0 0 0-0 16.36 2.42 10

DUP		Sample ID: 22102597-01A DUP				Units: % of sample		Analysis Date: 10/31/2022 01:01 PM		
Client ID: CM-CS-G1-627-221027		Run ID: MOIST_221031B				SeqNo: 8958605		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 11.96 0.10 0 0 0 0-0 11.41 4.71 10

The following samples were analyzed in this batch:

22102597-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC Page: 4 of 5

Client: Tetra Tech EM Inc.
Work Order: 22102597
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **R357019** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R357019				Units: % of sample		Analysis Date: 10/31/2022 02:24 PM		
Client ID:		Run ID: MOIST_221031C				SeqNo: 8958646		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS		Sample ID: LCS-R357019				Units: % of sample		Analysis Date: 10/31/2022 02:24 PM		
Client ID:		Run ID: MOIST_221031C				SeqNo: 8958645		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.10	100	0	100	98-102	0			

DUP		Sample ID: 22102550-01A DUP				Units: % of sample		Analysis Date: 10/31/2022 02:24 PM		
Client ID:		Run ID: MOIST_221031C				SeqNo: 8958624		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	5.69	0.10	0	0	0	0-0	5.86	2.94	10	

DUP		Sample ID: 22102597-02A DUP				Units: % of sample		Analysis Date: 10/31/2022 02:24 PM		
Client ID: CM-CS-F3-627-221027		Run ID: MOIST_221031C				SeqNo: 8958627		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	21.44	0.10	0	0	0	0-0	22.56	5.09	10	

The following samples were analyzed in this batch:

22102597-02A	22102597-03A	22102597-04A
22102597-05A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1


QC Page: 5 of 5



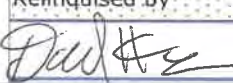
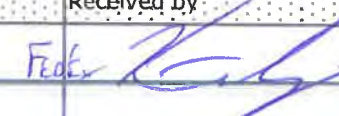
Chain of Custody Form

ALS Group USA, Corp

Work Order

Company Name	Tetra Tech EM Inc.	Purchase Order		Parameter/Method Request for Analysis	
Send Report To	Rachel Houle	Company Name	Tetra Tech EM Inc.	A	RCRA 8 Metals
Project Name	Chudnow Metals	Invoice Attn	Accounts Payable	B	
Address	1 South Wacker Dr Suite 3700	Project #		C	
City/State/Zip	Chicago, IL 60606	Address	1 South Wacker Dr Suite 3700 Suite 3700	D	
Phone	3122017411	City/State/Zip	Chicago, IL 60606	<div>22102597</div> <div>TETRATECH-FM-CHI: Tetra Tech FM Inc.</div> <div>Project:</div> 	
e-Mail Address	rachel.houle@tetratech.com	Phone	3122017411		
e-Mail Address		e-Mail Address			

#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	H	I	J	Sample Notes
1	CM-CS-61-627-221027	10/27/22	0845	Soil	8	1	X										
2	CM-CS-F3-627-221027	10/27/22	1340	Soil	8	1	X										
3	CM-CS-D3-627-221027	10/27/22	1453	Soil	8	1	X										
4	CM-CS-A3-627-221027	10/27/22	1600	Soil	8	1	X										
5	CM-CS-B3-627-221027	10/27/22	1610	Soil	8	1	X										
6																	
7																	
8																	
9																	
10																	

Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.						Required Turnaround Time: _____ Std 10 Wk days <input checked="" type="checkbox"/> 5 Wk days <input type="checkbox"/> 2 Wk days <input type="checkbox"/> 24 hr				Results Due:													
Preservative Key: 1-HCL, 2-HNO3, 3-H2SO4, 4-NaOH, 5-Na2S2O3, 6-NaHSO4, 7-Other, 8-4 degrees C, 9-5035						Relinquished by: 						Date: 10/27/22		Time: 1705		Received by: 		Date: 10/28/22		Time: 1000		NOTES: 3.2°C 1R3	
												QC Reporting Level: (check box below)											
												Level II: Standard QC						Other:					
												Level III: Std QC + Raw data											
												Level IV: SW846 CLP-Like											

Sample Receipt Checklist

Client Name: **TETRATECH-EM-CHI**

Date/Time Received: **28-Oct-22 10:00**

Work Order: **22102597**

Received by: **KRW**

Checklist completed by **Keith Wierenga**

28-Oct-22

Reviewed by: **Chad Whelton**

30-Oct-22

eSignature

Date

eSignature

Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

3.2/4.2 C

IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

10/28/2022 1:30:59 PM

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

Revision: 1



08-Nov-2022

Rachel Houle
Tetra Tech EM Inc.
1 South Wacker Dr
Suite 3700
Chicago, IL 60606

Re: **Chudnow Metals**

Work Order: **22110037**

Dear Rachel,

ALS Environmental received 2 samples on 31-Oct-2022 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22110037

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22110037-01	CM-CS-D1-627-221028	Soil		10/28/2022 14:20	10/31/2022 09:00	<input type="checkbox"/>
22110037-02	CM-CS-D2-627-221028	Soil		10/28/2022 16:10	10/31/2022 09:00	<input type="checkbox"/>

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22110037

Case Narrative

Samples for the above noted Work Order were received on 10/31/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Metals:

Batch 205884, Method SW6020B, Sample CM-CS-D2-627-221028 (22110037-02A): The reporting limit for Selenium is elevated due to dilution for high concentrations of non-target analytes.

Wet Chemistry:

No other deviations or anomalies were noted.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-D1-627-221028
Collection Date: 10/28/2022 02:20 PM

Work Order: 22110037
Lab ID: 22110037-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/1/22		Analyst: KRA
Mercury	0.63		0.17	0.25	mg/Kg-dry	10	11/2/2022 11:50
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/2/22		Analyst: STP
Arsenic	4.6		0.043	0.36	mg/Kg-dry	1	11/3/2022 18:16
Barium	63		0.33	0.36	mg/Kg-dry	1	11/2/2022 22:29
Cadmium	2.1		0.021	0.14	mg/Kg-dry	1	11/2/2022 22:29
Chromium	10		0.16	0.36	mg/Kg-dry	1	11/3/2022 18:16
Lead	820		1.7	3.6	mg/Kg-dry	10	11/7/2022 15:52
Selenium	U		0.33	0.36	mg/Kg-dry	1	11/3/2022 18:16
Silver	0.48		0.047	0.36	mg/Kg-dry	1	11/3/2022 18:16
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	27		0.10	0.10	% of sample	1	11/2/2022 15:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-D2-627-221028
Collection Date: 10/28/2022 04:10 PM

Work Order: 22110037
Lab ID: 22110037-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/1/22		Analyst: KRA
Mercury	14		1.4	2.1	mg/Kg-dry	100	11/2/2022 11:52
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 11/2/22		Analyst: STP
Arsenic	13		0.41	3.4	mg/Kg-dry	10	11/3/2022 18:18
Barium	250		3.1	3.4	mg/Kg-dry	10	11/3/2022 18:18
Cadmium	23		0.020	0.14	mg/Kg-dry	1	11/2/2022 22:30
Chromium	140		1.5	3.4	mg/Kg-dry	10	11/3/2022 18:18
Lead	1,100		1.6	3.4	mg/Kg-dry	10	11/3/2022 18:18
Selenium	U		3.1	3.4	mg/Kg-dry	10	11/3/2022 18:18
Silver	1.7	J	0.45	3.4	mg/Kg-dry	10	11/3/2022 18:18
MOISTURE							
			Method: SW3550C				Analyst: ALG
Moisture	14		0.10	0.10	% of sample	1	11/2/2022 15:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Tetra Tech EM Inc.
Work Order: 22110037
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205839** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-205839-205839				Units: mg/Kg		Analysis Date: 11/2/2022 10:19 AM		
Client ID:		Run ID: HG4_221102A				SeqNo: 8964004		Prep Date: 11/1/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.020

LCS		Sample ID: LCS-205839-205839				Units: mg/Kg		Analysis Date: 11/2/2022 10:21 AM		
Client ID:		Run ID: HG4_221102A				SeqNo: 8964005		Prep Date: 11/1/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1917 0.020 0.1665 0 115 80-120 0

MS		Sample ID: 22102736-07BMS				Units: mg/Kg		Analysis Date: 11/2/2022 11:08 AM		
Client ID:		Run ID: HG4_221102A				SeqNo: 8964030		Prep Date: 11/1/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1797 0.015 0.126 0.04567 106 75-125 0

MSD		Sample ID: 22102736-07BMSD				Units: mg/Kg		Analysis Date: 11/2/2022 11:11 AM		
Client ID:		Run ID: HG4_221102A				SeqNo: 8964031		Prep Date: 11/1/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1729 0.015 0.1289 0.04567 98.7 75-125 0.1797 3.85 35

The following samples were analyzed in this batch:

22110037-01A 22110037-02A

Client: Tetra Tech EM Inc.
Work Order: 22110037
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205884** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: MBLK-205884-205884				Units: mg/Kg		Analysis Date: 11/2/2022 09:47 PM				
Client ID:		Run ID: ICPMS3_221102B		SeqNo: 8966986		Prep Date: 11/2/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Chromium	U	0.25								
Lead	U	0.25								

MBLK Sample ID: MBLK-205884-205884				Units: mg/Kg		Analysis Date: 11/3/2022 03:46 PM				
Client ID:		Run ID: ICPMS3_221103B		SeqNo: 8971999		Prep Date: 11/2/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	U	0.25								
Silver	U	0.25								

LCS Sample ID: LCS-205884-205884				Units: mg/Kg		Analysis Date: 11/2/2022 09:48 PM				
Client ID:		Run ID: ICPMS3_221102B		SeqNo: 8966987		Prep Date: 11/2/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.047	0.25	5	0	101	80-120	0			
Barium	5.27	0.25	5	0	105	80-120	0			
Cadmium	5.223	0.10	5	0	104	80-120	0			
Chromium	5.231	0.25	5	0	105	80-120	0			
Lead	5.04	0.25	5	0	101	80-120	0			
Selenium	4.903	0.25	5	0	98.1	80-120	0			

LCS Sample ID: LCS-205884-205884				Units: mg/Kg		Analysis Date: 11/3/2022 03:48 PM				
Client ID:		Run ID: ICPMS3_221103B		SeqNo: 8972000		Prep Date: 11/2/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Silver	5.331	0.25	5	0	107	80-120	0			

MS Sample ID: 22102523-01AMS				Units: mg/Kg		Analysis Date: 11/2/2022 09:52 PM				
Client ID:		Run ID: ICPMS3_221102B		SeqNo: 8966989		Prep Date: 11/2/2022		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	16.74	25	5.061	12.26	88.5	75-125	0			J
Barium	60.96	25	5.061	52.89	159	75-125	0			SO
Cadmium	5.233	10	5.061	0.05617	102	75-125	0			J
Chromium	17.41	25	5.061	9.739	152	75-125	0			JS
Lead	U	25	5.061	4.798	-94.8	75-125	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22110037
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205884** Instrument ID **ICPMS3** Method: **SW6020B**

MS				Sample ID: 22102523-01AMS			Units: mg/Kg		Analysis Date: 11/3/2022 03:10 PM		
Client ID:			Run ID: ICPMS3_221103B			SeqNo: 8971993		Prep Date: 11/2/2022		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Selenium	U	25	5.061	-1.754	34.7	75-125	0			S	
Silver	6.893	25	5.061	2.354	89.7	75-125	0			J	

MSD				Sample ID: 22102523-01AMSD			Units: mg/Kg		Analysis Date: 11/2/2022 09:53 PM		
Client ID:		Run ID: ICPMS3_221102B			SeqNo: 8966990		Prep Date: 11/2/2022		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	16.62	25	5.04	12.26	86.6	75-125	16.74	0	20	J	
Barium	50.87	25	5.04	52.89	-40.2	75-125	60.96	18.1	20	SO	
Cadmium	5.026	10	5.04	0.05617	98.6	75-125	5.233	0	20	J	
Chromium	15.72	25	5.04	9.739	119	75-125	17.41	0	20	J	
Lead	U	25	5.04	4.798	-95.2	75-125	11.47	0	20	S	

MSD				Sample ID: 22102523-01AMSD			Units: mg/Kg		Analysis Date: 11/3/2022 03:12 PM		
Client ID:			Run ID: ICPMS3_221103B			SeqNo: 8971994		Prep Date: 11/2/2022		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Selenium	U	25	5.04	-1.754	34.8	75-125	5.631	0	20	S	
Silver	7.118	25	5.04	2.354	94.5	75-125	6.893	0	20	J	

The following samples were analyzed in this batch: | 22110037-01A 22110037-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22110037
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **R357209** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R357209				Units: % of sample		Analysis Date: 11/2/2022 03:28 PM		
Client ID:		Run ID: MOIST_221102D				SeqNo: 8967225		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS		Sample ID: LCS-R357209				Units: % of sample		Analysis Date: 11/2/2022 03:28 PM		
Client ID:		Run ID: MOIST_221102D				SeqNo: 8967224		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.10	100	0	100	98-102	0			

DUP		Sample ID: 22110029-29B DUP				Units: % of sample		Analysis Date: 11/2/2022 03:28 PM		
Client ID:		Run ID: MOIST_221102D				SeqNo: 8967206		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	3.36	0.10	0	0	0	0-0	3.68	9.09	10	

DUP		Sample ID: 22110037-01A DUP				Units: % of sample		Analysis Date: 11/2/2022 03:28 PM		
Client ID: CM-CS-D1-627-221028		Run ID: MOIST_221102D				SeqNo: 8967214		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	26.5	0.10	0	0	0	0-0	27.16	2.46	10	

The following samples were analyzed in this batch:

22110037-01A 22110037-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Chain of Custody Form

ALS Group USA, Corp

Work Order

Company Name	Tetra Tech EM Inc.	Purchase Order		Parameter/Method Request for Analysis
Send Report To	Rachel Houle	Company Name	Tetra Tech EM Inc.	A RCRA 8 Metals
Project Name	Chudnow Metals	Invoice Attn	Accounts Payable	B
Address	1 South Wacker Dr Suite 3700	Project #		C
City/State/Zip	Chicago, IL 60606	Address	1 South Wacker Dr Suite 3700 Suite 3700	D
Phone	3122017411	City/State/Zip	Chicago, IL 60606	E
e-Mail Address	rachel.houle@tetratech.com	Phone	3122017411	F
		e-Mail Address		G
				H
				I
				J

#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	H	I	J	Sample Notes
1	CM-CS-D1-627-221028	10/28/22	1420	Soil	8	1	X										
2	CM-CS-D2-627-221028	10/28/22	1610	Soil	8	1	X										
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

22110037

TETRATECH-EM-CH: Tetra Tech EM Inc.
Project: Chudnow Metals



Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.						Required Turnaround Time: _____ Std 10 Wk days <input checked="" type="checkbox"/> 5 Wk days _____ 2 Wk days _____ 24 hr		Results Due: _____	
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035									
Relinquished by	Date	Time	Received by	Date	Time	NOTES:			
	10/28/22	1700							
	10-31-22	0900							
						QC Reporting Level: (check box below)			
						Level II: Standard QC		Other:	
						Level III: Std QC + Raw data			
						Level IV: SW846 CLP-Like			

Sample Receipt Checklist

Client Name: **TETRATECH-EM-CHI**

Date/Time Received: **31-Oct-22 09:00**

Work Order: **22110037**

Received by: **JD**

Checklist completed by **Jason Delinger**

01-Nov-22

Reviewed by: **Chad Whelton**

01-Nov-22

eSignature

Date

eSignature

Date

Matrices: **soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

3.1/4.1 c

ir3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

11/1/2022 10:01:56 AM

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



08-Nov-2022

Rachel Houle
Tetra Tech EM Inc.
1 South Wacker Dr
Suite 3700
Chicago, IL 60606

Re: **Chudnow Metals**

Work Order: **22110146**

Dear Rachel,

ALS Environmental received 7 samples on 01-Nov-2022 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 17.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22110146

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22110146-01	CM-CS-C4-627-221031	Soil		10/31/2022 09:35	11/1/2022 09:30	<input type="checkbox"/>
22110146-02	CM-CS-DUP01-221031	Soil		10/31/2022 09:40	11/1/2022 09:30	<input type="checkbox"/>
22110146-03	CM-CS-C3-627-221031	Soil		10/31/2022 13:15	11/1/2022 09:30	<input type="checkbox"/>
22110146-04	CM-CS-G4-627-221031	Soil		10/31/2022 13:20	11/1/2022 09:30	<input type="checkbox"/>
22110146-05	CM-CS-DUP02-221031	Soil		10/31/2022 13:25	11/1/2022 09:30	<input type="checkbox"/>
22110146-06	CM-CS-G3-627-221031	Soil		10/31/2022 15:00	11/1/2022 09:30	<input type="checkbox"/>
22110146-07	CM-CS-G2-627-221031	Soil		10/31/2022 16:05	11/1/2022 09:30	<input type="checkbox"/>

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22110146

Case Narrative

Samples for the above noted Work Order were received on 11/1/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Metals:

Batch 205966, Method SW6020B, Samples 22110146-01A, -02A, -03A, -05A, and -06A: The reporting limits for Selenium are elevated due to dilution for high concentrations of non-target analytes.

Batch 205966, Method SW6020B, Sample 22110146-07A: The reporting limits for Selenium and Silver are elevated due to dilution for high concentrations of non-target analytes.

Wet Chemistry:

No other deviations or anomalies were noted.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-C4-627-221031
Collection Date: 10/31/2022 09:35 AM

Work Order: 22110146
Lab ID: 22110146-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/2/22		Analyst: KRA
Mercury	10		1.3	1.9	mg/Kg-dry	100	11/3/2022 12:06
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/3/22		Analyst: DSC
Arsenic	23		0.41	3.4	mg/Kg-dry	10	11/4/2022 18:33
Barium	630		3.1	3.4	mg/Kg-dry	10	11/4/2022 18:33
Cadmium	24		0.20	1.4	mg/Kg-dry	10	11/4/2022 18:33
Chromium	150		1.5	3.4	mg/Kg-dry	10	11/4/2022 18:33
Lead	2,000		16	34	mg/Kg-dry	100	11/7/2022 14:16
Selenium	U		3.1	3.4	mg/Kg-dry	10	11/4/2022 18:33
Silver	2.3	J	0.45	3.4	mg/Kg-dry	10	11/4/2022 18:33
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	16		0.10	0.10	% of sample	1	11/4/2022 13:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-DUP01-221031
Collection Date: 10/31/2022 09:40 AM

Work Order: 22110146
Lab ID: 22110146-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/2/22		Analyst: KRA
Mercury	10		1.4	2.0	mg/Kg-dry	100	11/3/2022 12:08
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/3/22		Analyst: DSC
Arsenic	21		0.42	3.5	mg/Kg-dry	10	11/4/2022 18:35
Barium	540		3.2	3.5	mg/Kg-dry	10	11/4/2022 18:35
Cadmium	22		0.21	1.4	mg/Kg-dry	10	11/4/2022 18:35
Chromium	150		1.5	3.5	mg/Kg-dry	10	11/4/2022 18:35
Lead	1,900		17	35	mg/Kg-dry	100	11/7/2022 14:21
Selenium	U		3.2	3.5	mg/Kg-dry	10	11/4/2022 18:35
Silver	2.6	J	0.46	3.5	mg/Kg-dry	10	11/4/2022 18:35
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	15		0.10	0.10	% of sample	1	11/4/2022 13:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-C3-627-221031
Collection Date: 10/31/2022 01:15 PM

Work Order: 22110146
Lab ID: 22110146-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/2/22		Analyst: KRA
Mercury	14		1.5	2.2	mg/Kg-dry	100	11/3/2022 12:09
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/3/22		Analyst: DSC
Arsenic	30		0.41	3.4	mg/Kg-dry	10	11/4/2022 18:37
Barium	680		3.1	3.4	mg/Kg-dry	10	11/4/2022 18:37
Cadmium	28		0.21	1.4	mg/Kg-dry	10	11/4/2022 18:37
Chromium	300		1.5	3.4	mg/Kg-dry	10	11/4/2022 18:37
Lead	3,500		16	34	mg/Kg-dry	100	11/7/2022 14:23
Selenium	U		3.1	3.4	mg/Kg-dry	10	11/4/2022 18:37
Silver	3.0	J	0.45	3.4	mg/Kg-dry	10	11/4/2022 18:37
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	14		0.10	0.10	% of sample	1	11/4/2022 13:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-G4-627-221031
Collection Date: 10/31/2022 01:20 PM

Work Order: 22110146
Lab ID: 22110146-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/2/22		Analyst: KRA
Mercury	28		1.4	2.1	mg/Kg-dry	100	11/3/2022 12:11
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/3/22		Analyst: DSC
Arsenic	35		0.39	3.2	mg/Kg-dry	10	11/4/2022 18:39
Barium	790		3.0	3.2	mg/Kg-dry	10	11/4/2022 18:39
Cadmium	43		0.19	1.3	mg/Kg-dry	10	11/4/2022 18:39
Chromium	3,400		14	32	mg/Kg-dry	100	11/7/2022 14:25
Lead	2,500		160	320	mg/Kg-dry	1000	11/7/2022 15:54
Selenium	3.4		3.0	3.2	mg/Kg-dry	10	11/4/2022 18:39
Silver	3.5		0.43	3.2	mg/Kg-dry	10	11/4/2022 18:39
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	19		0.10	0.10	% of sample	1	11/4/2022 13:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-DUP02-221031
Collection Date: 10/31/2022 01:25 PM

Work Order: 22110146
Lab ID: 22110146-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/2/22		Analyst: KRA
Mercury	17		1.3	1.9	mg/Kg-dry	100	11/3/2022 12:13
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/3/22		Analyst: DSC
Arsenic	27		0.36	3.0	mg/Kg-dry	10	11/4/2022 18:40
Barium	730		2.8	3.0	mg/Kg-dry	10	11/4/2022 18:40
Cadmium	32		0.18	1.2	mg/Kg-dry	10	11/4/2022 18:40
Chromium	170		1.3	3.0	mg/Kg-dry	10	11/4/2022 18:40
Lead	3,400		15	30	mg/Kg-dry	100	11/7/2022 14:27
Selenium	U		2.8	3.0	mg/Kg-dry	10	11/4/2022 18:40
Silver	4.7		0.40	3.0	mg/Kg-dry	10	11/4/2022 18:40
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	16		0.10	0.10	% of sample	1	11/4/2022 13:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-G3-627-221031
Collection Date: 10/31/2022 03:00 PM

Work Order: 22110146
Lab ID: 22110146-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/2/22		Analyst: KRA
Mercury	4.5		1.4	2.0	mg/Kg-dry	100	11/3/2022 12:21
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/3/22		Analyst: DSC
Arsenic	13		0.36	3.0	mg/Kg-dry	10	11/4/2022 18:42
Barium	300		2.8	3.0	mg/Kg-dry	10	11/4/2022 18:42
Cadmium	8.9		0.18	1.2	mg/Kg-dry	10	11/4/2022 18:42
Chromium	41		1.3	3.0	mg/Kg-dry	10	11/4/2022 18:42
Lead	750		1.4	3.0	mg/Kg-dry	10	11/4/2022 18:42
Selenium	U		2.8	3.0	mg/Kg-dry	10	11/4/2022 18:42
Silver	1.1	J	0.40	3.0	mg/Kg-dry	10	11/4/2022 18:42
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	14		0.10	0.10	% of sample	1	11/4/2022 13:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-G2-627-221031
Collection Date: 10/31/2022 04:05 PM

Work Order: 22110146
Lab ID: 22110146-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/2/22		Analyst: KRA
Mercury	0.42		0.14	0.20	mg/Kg-dry	10	11/3/2022 12:22
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/3/22		Analyst: DSC
Arsenic	18		0.40	3.3	mg/Kg-dry	10	11/4/2022 18:44
Barium	230		3.1	3.3	mg/Kg-dry	10	11/4/2022 18:44
Cadmium	2.3		0.20	1.3	mg/Kg-dry	10	11/4/2022 18:44
Chromium	260		1.5	3.3	mg/Kg-dry	10	11/4/2022 18:44
Lead	590		1.6	3.3	mg/Kg-dry	10	11/4/2022 18:44
Selenium	U		3.1	3.3	mg/Kg-dry	10	11/4/2022 18:44
Silver	U		0.44	3.3	mg/Kg-dry	10	11/4/2022 18:44
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	18		0.10	0.10	% of sample	1	11/4/2022 13:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Tetra Tech EM Inc.
Work Order: 22110146
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205928** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-205928-205928				Units: mg/Kg		Analysis Date: 11/3/2022 10:55 AM		
Client ID:		Run ID: HG4_221103A				SeqNo: 8968684		Prep Date: 11/2/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.020								

LCS		Sample ID: LCS-205928-205928				Units: mg/Kg		Analysis Date: 11/3/2022 10:57 AM		
Client ID:		Run ID: HG4_221103A				SeqNo: 8968685		Prep Date: 11/2/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1792	0.020	0.1665	0	108	80-120	0			

MS		Sample ID: 22110112-01BMS				Units: mg/Kg		Analysis Date: 11/3/2022 11:26 AM		
Client ID:		Run ID: HG4_221103A				SeqNo: 8968701		Prep Date: 11/2/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1615	0.017	0.1409	0.01067	107	75-125	0			

MSD		Sample ID: 22110112-01BMSD				Units: mg/Kg		Analysis Date: 11/3/2022 11:28 AM		
Client ID:		Run ID: HG4_221103A				SeqNo: 8968702		Prep Date: 11/2/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1609	0.017	0.1442	0.01067	104	75-125	0.1615	0.372	35	

The following samples were analyzed in this batch:

22110146-01A	22110146-02A	22110146-03A
22110146-04A	22110146-05A	22110146-06A
22110146-07A		

Client: Tetra Tech EM Inc.
Work Order: 22110146
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205966** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK				Sample ID: MBLK-205966-205966		Units: mg/Kg		Analysis Date: 11/3/2022 07:39 PM		
Client ID:		Run ID: ICPMS3_221103B		SeqNo: 8972082		Prep Date: 11/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Chromium	U	0.25								
Lead	U	0.25								
Selenium	U	0.25								
Silver	U	0.25								

LCS				Sample ID: LCS-205966-205966		Units: mg/Kg		Analysis Date: 11/3/2022 07:41 PM		
Client ID:		Run ID: ICPMS3_221103B		SeqNo: 8972083		Prep Date: 11/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.826	0.25	5	0	96.5	80-120	0			
Barium	5.165	0.25	5	0	103	80-120	0			
Cadmium	5.024	0.10	5	0	100	80-120	0			
Chromium	4.864	0.25	5	0	97.3	80-120	0			
Lead	5.028	0.25	5	0	101	80-120	0			
Selenium	4.873	0.25	5	0	97.5	80-120	0			
Silver	5.344	0.25	5	0	107	80-120	0			

MS				Sample ID: 22110112-02BMS		Units: mg/Kg		Analysis Date: 11/3/2022 07:44 PM		
Client ID:		Run ID: ICPMS3_221103B		SeqNo: 8972085		Prep Date: 11/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.767	0.26	5.203	3.38	104	75-125	0			
Barium	72.43	0.26	5.203	50.95	413	75-125	0			SO
Cadmium	4.376	0.10	5.203	0.06478	82.9	75-125	0			
Chromium	20.26	0.26	5.203	21.7	-27.7	75-125	0			SO
Lead	20.79	0.26	5.203	15.55	101	75-125	0			
Selenium	4.431	0.26	5.203	0.2815	79.7	75-125	0			
Silver	4.519	0.26	5.203	0.01681	86.5	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22110146
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205966** Instrument ID **ICPMS3** Method: **SW6020B**

MSD		Sample ID: 22110112-02BMSD				Units: mg/Kg		Analysis Date: 11/3/2022 07:46 PM		
Client ID:		Run ID: ICPMS3_221103B				SeqNo: 8972086		Prep Date: 11/3/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.128	0.26	5.181	3.38	72.3	75-125	8.767	20.6	20	SR
Barium	45.53	0.26	5.181	50.95	-105	75-125	72.43	45.6	20	SRO
Cadmium	4.305	0.10	5.181	0.06478	81.8	75-125	4.376	1.65	20	
Chromium	13.65	0.26	5.181	21.7	-155	75-125	20.26	39	20	SRO
Lead	18.58	0.26	5.181	15.55	58.4	75-125	20.79	11.2	20	S
Selenium	4.448	0.26	5.181	0.2815	80.4	75-125	4.431	0.392	20	
Silver	4.454	0.26	5.181	0.01681	85.6	75-125	4.519	1.45	20	

The following samples were analyzed in this batch:

22110146-01A	22110146-02A	22110146-03A
22110146-04A	22110146-05A	22110146-06A
22110146-07A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
 Work Order: 22110146
 Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **R357421** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R357421				Units: % of sample		Analysis Date: 11/4/2022 01:10 PM		
Client ID:		Run ID: MOIST_221104B				SeqNo: 8976673		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS		Sample ID: LCS-R357421				Units: % of sample		Analysis Date: 11/4/2022 01:10 PM		
Client ID:		Run ID: MOIST_221104B				SeqNo: 8976672		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.10	100	0	100	98-102	0			

DUP		Sample ID: 22102694-01A DUP				Units: % of sample		Analysis Date: 11/4/2022 01:10 PM		
Client ID:		Run ID: MOIST_221104B				SeqNo: 8976651		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	11.9	0.10	0	0	0	0-0	11.22	5.88	10	

DUP		Sample ID: 22110146-06A DUP				Units: % of sample		Analysis Date: 11/4/2022 01:10 PM		
Client ID: CM-CS-G3-627-221031		Run ID: MOIST_221104B				SeqNo: 8976662		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.34	0.10	0	0	0	0-0	14.23	0.77	10	

The following samples were analyzed in this batch:

22110146-01A	22110146-02A	22110146-03A
22110146-04A	22110146-05A	22110146-06A
22110146-07A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Chain of Custody Form

ALS Group USA, Corp

Work Order

Company Name: Tetra Tech EM Inc.		Purchase Order		Parameter/Method Request for Analysis	
Send Report To: Rachel Houle		Company Name: Tetra Tech EM Inc.		A: RCRA 8 Metals	
Project Name: Chudnow Metals		Invoice Attn: Accounts Payable		B:	
Address: 1 South Wacker Dr Suite 3700		Project #: 103X90310032000104108		C:	
City/State/Zip: Chicago, IL 60606		Address: 1 South Wacker Dr Suite 3700 Suite 3700		D:	
Phone: 3122017411		City/State/Zip: Chicago, IL 60606		E:	
e-Mail Address: rachel.houle@tetratech.com		Phone: 3122017411		F:	
		e-Mail Address:		G:	
				H:	
				I:	
				J:	

22110146

TETRATECH-EM-CHI: Tetra Tech EM Inc.
Project: Chudnow Metals



#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	H	I	J	Sample Notes
1	CM-CS-CH-627-221031	10/31/22	0935	Soil	8	1	X										
2	CM-CS-DUP01-221031		0940		8	1	X										
3	CM-CS-C3-627-221031		1315		8	1	X										
4	CM-CS-GW-627-221031		1320		8	1	X										
5	CM-CS-DUP02-221031		1325		8	1	X										
6	CM-CS-G3-627-221031		1500		8	1	X										
7	CM-CS-G2-627-221031		1605		8	1	X										
8																	
9																	
10																	

Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.						Required Turnaround Time: _____ Std 10 Wk days <input checked="" type="checkbox"/> 5 Wk days <input type="checkbox"/> 2 Wk days <input type="checkbox"/> 24 hr		Results Due: _____					
Preservative Key: 1-HCL, 2-HNO3, 3-H2SO4, 4-NaOH, 5-Na2S2O3, 6-NaHSO4, 7-Other, 8-4 degrees C, 9-5035.													
Relinquished by:		Date: 10-31-22		Time: 1700		Received by:		Date: 11/1/22		Time: 0930		NOTES: 2.9°C IR3	
						QC Reporting Level: (check box below)							
						Level II: Standard QC				Other:			
						Level III: Std QC + Raw data							
						Level IV: SW846 CLP-Like							

Sample Receipt Checklist

Client Name: **TETRATECH-EM-CHI**

Date/Time Received: **01-Nov-22 09:30**

Work Order: **22110146**

Received by: **KRW**

Checklist completed by **Keith Wierenga**

02-Nov-22

Reviewed by: **Chad Whelton**

03-Nov-22

eSignature

Date

eSignature

Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

2.9/3.9 C

IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

11/2/2022 10:11:41 AM

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



08-Nov-2022

Rachel Houle
Tetra Tech EM Inc.
1 South Wacker Dr
Suite 3700
Chicago, IL 60606

Re: **Chudnow Metals**

Work Order: **22110205**

Dear Rachel,

ALS Environmental received 3 samples on 02-Nov-2022 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 13.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22110205

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22110205-01	CM-CS-F2-627-221101	Soil		11/1/2022 12:10	11/2/2022 09:00	<input type="checkbox"/>
22110205-02	CM-CS-C1-627-221101	Soil		11/1/2022 16:00	11/2/2022 09:00	<input type="checkbox"/>
22110205-03	CM-CS-C2-627-221101	Soil		11/1/2022 16:30	11/2/2022 09:00	<input type="checkbox"/>

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22110205

Case Narrative

Samples for the above noted Work Order were received on 11/02/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Metals:

Batch 205988, Method SW7471B, Sample 22110205-01A MS/MSD: The MS/MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Mercury.

Batch 206052, Method SW6020B, Sample 22110205-01A MS/MSD: The MS/MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Cadmium, Chromium.

Batch 206052, Method SW6020B, Sample 22110205-01A MS/MSD: The MS/MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Barium, Lead.

Batch 206052, Method SW6020B, Sample 22110205-01A MSD: The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Selenium, Silver.

Batch 206052, Method SW6020B, Sample 22110205-01A MSD: The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: Arsenic.

Wet Chemistry:

No other deviations or anomalies were noted.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-F2-627-221101
Collection Date: 11/1/2022 12:10 PM

Work Order: 22110205
Lab ID: 22110205-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/3/22		Analyst: KRA
Mercury	1.7		0.15	0.22	mg/Kg-dry	10	11/4/2022 12:30
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/4/22		Analyst: DSC
Arsenic	8.7		0.043	0.36	mg/Kg-dry	1	11/4/2022 21:50
Barium	170		33	36	mg/Kg-dry	100	11/7/2022 15:30
Cadmium	3.3		0.021	0.14	mg/Kg-dry	1	11/4/2022 21:50
Chromium	22		0.16	0.36	mg/Kg-dry	1	11/4/2022 21:50
Lead	1,300		17	36	mg/Kg-dry	100	11/7/2022 15:30
Selenium	0.94		0.33	0.36	mg/Kg-dry	1	11/4/2022 21:50
Silver	0.79		0.047	0.36	mg/Kg-dry	1	11/4/2022 21:50
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	15		0.10	0.10	% of sample	1	11/3/2022 14:34

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-C1-627-221101
Collection Date: 11/1/2022 04:00 PM

Work Order: 22110205
Lab ID: 22110205-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/3/22		Analyst: KRA
Mercury	1.7		0.14	0.21	mg/Kg-dry	10	11/4/2022 12:35
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/4/22		Analyst: DSC
Arsenic	9.3		0.044	0.37	mg/Kg-dry	1	11/4/2022 21:57
Barium	210		3.4	3.7	mg/Kg-dry	10	11/7/2022 15:37
Cadmium	7.1		0.022	0.15	mg/Kg-dry	1	11/4/2022 21:57
Chromium	34		0.16	0.37	mg/Kg-dry	1	11/4/2022 21:57
Lead	670		1.8	3.7	mg/Kg-dry	10	11/7/2022 15:37
Selenium	0.67		0.34	0.37	mg/Kg-dry	1	11/4/2022 21:57
Silver	0.66		0.048	0.37	mg/Kg-dry	1	11/4/2022 21:57
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	16		0.10	0.10	% of sample	1	11/3/2022 14:34

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 08-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-C2-627-221101
Collection Date: 11/1/2022 04:30 PM

Work Order: 22110205
Lab ID: 22110205-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/3/22		Analyst: KRA
Mercury	3.6		0.18	0.26	mg/Kg-dry	10	11/4/2022 12:37
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/4/22		Analyst: DSC
Arsenic	4.0		0.042	0.35	mg/Kg-dry	1	11/4/2022 21:59
Barium	91		3.2	3.5	mg/Kg-dry	10	11/7/2022 15:39
Cadmium	1.0		0.021	0.14	mg/Kg-dry	1	11/4/2022 21:59
Chromium	8.5		0.15	0.35	mg/Kg-dry	1	11/4/2022 21:59
Lead	260		1.7	3.5	mg/Kg-dry	10	11/7/2022 15:39
Selenium	0.49		0.32	0.35	mg/Kg-dry	1	11/4/2022 21:59
Silver	0.23	J	0.046	0.35	mg/Kg-dry	1	11/4/2022 21:59
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	24		0.10	0.10	% of sample	1	11/3/2022 14:34

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Tetra Tech EM Inc.
Work Order: 22110205
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **205988** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-205988-205988				Units: mg/Kg		Analysis Date: 11/4/2022 11:31 AM		
Client ID:		Run ID: HG4_221104A				SeqNo: 8972934		Prep Date: 11/3/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.020

LCS		Sample ID: LCS-205988-205988				Units: mg/Kg		Analysis Date: 11/4/2022 11:33 AM		
Client ID:		Run ID: HG4_221104A				SeqNo: 8972935		Prep Date: 11/3/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.175 0.020 0.1665 0 105 80-120 0

MS		Sample ID: 22110205-01AMS				Units: mg/Kg		Analysis Date: 11/4/2022 12:32 PM		
Client ID: CM-CS-F2-627-221101		Run ID: HG4_221104A				SeqNo: 8972965		Prep Date: 11/3/2022		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.263 0.18 0.1493 1.43 -112 75-125 0 SO

MSD		Sample ID: 22110205-01AMSD				Units: mg/Kg		Analysis Date: 11/4/2022 12:33 PM		
Client ID: CM-CS-F2-627-221101		Run ID: HG4_221104A				SeqNo: 8972966		Prep Date: 11/3/2022		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.7955 0.18 0.1514 1.43 -419 75-125 1.263 45.4 35 SRO

The following samples were analyzed in this batch:

22110205-01A	22110205-02A	22110205-03A
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Client: Tetra Tech EM Inc.
Work Order: 22110205
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **206052** Instrument ID **ICPMS4** Method: **SW6020B**

MBLK Sample ID: MBLK-206052-206052				Units: mg/Kg		Analysis Date: 11/4/2022 09:26 PM				
Client ID:		Run ID: ICPMS4_221104B		SeqNo: 8976994		Prep Date: 11/4/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Chromium	U	0.25								
Lead	U	0.25								
Selenium	U	0.25								
Silver	U	0.25								

LCS Sample ID: LCS-206052-206052				Units: mg/Kg		Analysis Date: 11/4/2022 09:28 PM				
Client ID:		Run ID: ICPMS4_221104B		SeqNo: 8976995		Prep Date: 11/4/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.539	0.25	5	0	90.8	80-120	0			
Barium	4.914	0.25	5	0	98.3	80-120	0			
Cadmium	4.711	0.10	5	0	94.2	80-120	0			
Chromium	4.78	0.25	5	0	95.6	80-120	0			
Lead	4.814	0.25	5	0	96.3	80-120	0			
Selenium	4.635	0.25	5	0	92.7	80-120	0			
Silver	4.777	0.25	5	0	95.5	80-120	0			

MS Sample ID: 22110205-01AMS				Units: mg/Kg		Analysis Date: 11/4/2022 09:53 PM				
Client ID: CM-CS-F2-627-221101		Run ID: ICPMS4_221104B		SeqNo: 8977007		Prep Date: 11/4/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.66	0.30	6.046	7.339	88.1	75-125	0			
Cadmium	6.754	0.12	6.046	2.808	65.3	75-125	0			S
Chromium	20.71	0.30	6.046	18.95	29.1	75-125	0			S
Selenium	5.352	0.30	6.046	0.7968	75.3	75-125	0			
Silver	5.337	0.30	6.046	0.6725	77.1	75-125	0			

MS Sample ID: 22110205-01AMS				Units: mg/Kg		Analysis Date: 11/7/2022 03:32 PM				
Client ID: CM-CS-F2-627-221101		Run ID: ICPMS3_221107B		SeqNo: 8978732		Prep Date: 11/4/2022		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	147.2	30	6.046	147.5	-5.34	75-125	0			SO
Lead	1700	30	6.046	1104	9860	75-125	0			SO

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22110205
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **206052** Instrument ID **ICPMS4** Method: **SW6020B**

MSD				Sample ID: 22110205-01AMSD		Units: mg/Kg		Analysis Date: 11/4/2022 09:55 PM		
Client ID: CM-CS-F2-627-221101			Run ID: ICPMS4_221104B			SeqNo: 8977008		Prep Date: 11/4/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.32	0.30	6.098	7.339	49	75-125	12.66	20.3	20	SR
Cadmium	6.101	0.12	6.098	2.808	54	75-125	6.754	10.2	20	S
Chromium	19.14	0.30	6.098	18.95	3.27	75-125	20.71	7.84	20	S
Selenium	5.121	0.30	6.098	0.7968	70.9	75-125	5.352	4.42	20	S
Silver	4.983	0.30	6.098	0.6725	70.7	75-125	5.337	6.86	20	S

MSD				Sample ID: 22110205-01AMSD			Units: mg/Kg		Analysis Date: 11/7/2022 03:34 PM		
Client ID: CM-CS-F2-627-221101				Run ID: ICPMS3_221107B			SeqNo: 8978733		Prep Date: 11/4/2022		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	177.1	30	6.098	147.5	486	75-125	165.9	6.57	20	SO	
Lead	1135	30	6.098	1104	509	75-125	1687	39.1	20	SRO	

The following samples were analyzed in this batch:

22110205-01A 22110205-02A 22110205-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22110205
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **R357299** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R357299				Units: % of sample		Analysis Date: 11/3/2022 02:34 PM		
Client ID:		Run ID: MOIST_221103C				SeqNo: 8971293		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS		Sample ID: LCS-R357299				Units: % of sample		Analysis Date: 11/3/2022 02:34 PM		
Client ID:		Run ID: MOIST_221103C				SeqNo: 8971292		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.10	100	0	100	98-102	0			

DUP		Sample ID: 22110205-01A DUP				Units: % of sample		Analysis Date: 11/3/2022 02:34 PM		
Client ID: CM-CS-F2-627-221101		Run ID: MOIST_221103C				SeqNo: 8971285		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.27	0.10	0	0	0	0-0	15.29	6.9	10	

DUP		Sample ID: 22110273-01A DUP				Units: % of sample		Analysis Date: 11/3/2022 02:34 PM		
Client ID:		Run ID: MOIST_221103C				SeqNo: 8971289		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	12.43	0.10	0	0	0	0-0	12.11	2.61	10	

The following samples were analyzed in this batch:

22110205-01A	22110205-02A	22110205-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Chain of Custody Form

ALS Group USA, Corp

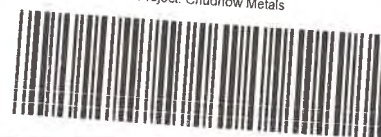
Work Order

Company Name	Tetra Tech EM Inc.	Purchase Order		Parameter/Method Request for Analysis										
Send Report To	Rachel Houle	Company Name	Tetra Tech EM Inc.	A	RCRA 8 Metals									
Project Name	Chudnow Metals	Invoice Attn	Accounts Payable	B										
Address	1 South Wacker Dr Suite 3700	Project #	103X9031003200010H108	C										
City/State/Zip	Chicago, IL 60606	Address	1 South Wacker Dr Suite 3700 Suite 3700	D										
Phone	3122017411	City/State/Zip	Chicago, IL 60606	E										
e-Mail Address	rachel.houle@tetra tech.com	Phone	3122017411	F										
		e-Mail Address		G										
				H										
				I										
				J										

#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	H	I	J	Sample Notes
1	CM-CS-F2-627-221101	11-01-22	1210	Soil	8	3	X										MS/MSD
2	CM-CS-C1-627-221101	11-01-22	1600	Soil	8	1	X										
3	CM-CS-C2-627-221101	11-01-22	1630	Soil	8	1	X										
4																	
5																	
6																	
7																	
8																	
9																	
10																	

22110205

TETRATECH-EM-CHI: Tetra Tech EM Inc.
Project: Chudnow Metals



Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

Preservative Key: 1-HCL, 2-HNO3, 3-H2SO4, 4-NaOH, 5-Na2S2O3, 6-NaHSO4, 7-Other, 8-4 degrees C, 9-5035.

Required Turnaround Time:

Std 10 Wk days ☒ 5 Wk days ☐ 2 Wk days ☐ 24 hr

Results Due:

Relinquished by	Date	Time	Received by	Date	Time	NOTES:
	11-01-22	1700		11-22	0850	
						QC Reporting Level: (check box below)
						Level II: Standard QC
						Level III: Std QC + Raw data
						Level IV: SW846 CLP-Like

Sample Receipt Checklist

Client Name: **TETRATECH-EM-CHI**

Date/Time Received: **02-Nov-22 09:00**

Work Order: **22110205**

Received by: **JD**

Checklist completed by **Jason Delinger**

02-Nov-22

Reviewed by: **Chad Whelton**

03-Nov-22

eSignature

Date

eSignature

Date

Matrices: **soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

3.2/4.2 c

ir3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

11/2/2022 2:01:31 PM

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



10-Nov-2022

Rachel Houle
Tetra Tech EM Inc.
1 South Wacker Dr
Suite 3700
Chicago, IL 60606

Re: **Chudnow Metals**

Work Order: **22110394**

Dear Rachel,

ALS Environmental received 3 samples on 03-Nov-2022 08:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 14.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22110394

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22110394-01	CM-CS-A2-627-221102	Soil		11/2/2022 09:43	11/3/2022 08:30	<input type="checkbox"/>
22110394-02	CM-CS-DUP01-221102	Soil		11/2/2022 09:50	11/3/2022 08:30	<input type="checkbox"/>
22110394-03	CM-CS-A1-627-221102	Soil		11/2/2022 13:00	11/3/2022 08:30	<input type="checkbox"/>

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22110394

Case Narrative

Samples for the above noted Work Order were received on 11/03/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Metals:

No other deviations or anomalies were noted.

Wet Chemistry:

Batch R357514, Method SW3550C, Sample 22110394-01A DUP: The RPD between the sample and its duplicate was out of control. The corresponding sample result should be considered estimated for this analyte: moisture.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group, USA

Date: 10-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-A2-627-221102
Collection Date: 11/2/2022 09:43 AM

Work Order: 22110394
Lab ID: 22110394-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/4/22		Analyst: KRA
Mercury	5.2		1.5	2.2	mg/Kg-dry	100	11/7/2022 12:26
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/7/22		Analyst: STP
Arsenic	36		0.37	3.1	mg/Kg-dry	10	11/7/2022 23:00
Barium	680		2.9	3.1	mg/Kg-dry	10	11/7/2022 23:00
Cadmium	25		0.19	1.2	mg/Kg-dry	10	11/7/2022 23:00
Chromium	120		1.4	3.1	mg/Kg-dry	10	11/7/2022 23:00
Lead	3,200		15	31	mg/Kg-dry	100	11/8/2022 15:13
Selenium	7.0		2.9	3.1	mg/Kg-dry	10	11/7/2022 23:00
Silver	2.6	J	0.41	3.1	mg/Kg-dry	10	11/7/2022 23:00
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	18		0.10	0.10	% of sample	1	11/8/2022 11:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-DUP01-221102
Collection Date: 11/2/2022 09:50 AM

Work Order: 22110394
Lab ID: 22110394-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/4/22		Analyst: KRA
Mercury	5.5		1.5	2.2	mg/Kg-dry	100	11/7/2022 12:33
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/7/22		Analyst: STP
Arsenic	45		0.40	3.4	mg/Kg-dry	10	11/7/2022 23:02
Barium	1,100		31	34	mg/Kg-dry	100	11/8/2022 15:14
Cadmium	26		0.20	1.3	mg/Kg-dry	10	11/7/2022 23:02
Chromium	190		1.5	3.4	mg/Kg-dry	10	11/7/2022 23:02
Lead	2,500		16	34	mg/Kg-dry	100	11/8/2022 15:14
Selenium	12		3.1	3.4	mg/Kg-dry	10	11/7/2022 23:02
Silver	2.0	J	0.44	3.4	mg/Kg-dry	10	11/7/2022 23:02
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	17		0.10	0.10	% of sample	1	11/7/2022 14:21

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-A1-627-221102
Collection Date: 11/2/2022 01:00 PM

Work Order: 22110394
Lab ID: 22110394-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/4/22		Analyst: KRA
Mercury	2.9		0.15	0.22	mg/Kg-dry	10	11/7/2022 12:23
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/7/22		Analyst: STP
Arsenic	12		0.43	3.5	mg/Kg-dry	10	11/7/2022 23:04
Barium	200		3.3	3.5	mg/Kg-dry	10	11/7/2022 23:04
Cadmium	11		0.21	1.4	mg/Kg-dry	10	11/7/2022 23:04
Chromium	71		1.6	3.5	mg/Kg-dry	10	11/7/2022 23:04
Lead	920		1.7	3.5	mg/Kg-dry	10	11/7/2022 23:04
Selenium	7.1		3.3	3.5	mg/Kg-dry	10	11/7/2022 23:04
Silver	0.96	J	0.47	3.5	mg/Kg-dry	10	11/7/2022 23:04
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	18		0.10	0.10	% of sample	1	11/7/2022 14:21

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Tetra Tech EM Inc.
Work Order: 22110394
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **206097** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-206097-206097				Units: mg/Kg		Analysis Date: 11/7/2022 10:53 AM		
Client ID:		Run ID: HG4_221107A				SeqNo: 8977751		Prep Date: 11/4/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.020

LCS		Sample ID: LCS-206097-206097				Units: mg/Kg		Analysis Date: 11/7/2022 10:55 AM		
Client ID:		Run ID: HG4_221107A				SeqNo: 8977752		Prep Date: 11/4/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1034 0.015 0.126 0 82.1 80-120 0

MS		Sample ID: 22110351-01BMS				Units: mg/Kg		Analysis Date: 11/7/2022 11:05 AM		
Client ID:		Run ID: HG4_221107A				SeqNo: 8977758		Prep Date: 11/4/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1228 0.017 0.1452 0.01624 73.4 75-125 0 S

MSD		Sample ID: 22110351-01BMSD				Units: mg/Kg		Analysis Date: 11/7/2022 11:07 AM		
Client ID:		Run ID: HG4_221107A				SeqNo: 8977759		Prep Date: 11/4/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1268 0.019 0.1563 0.01624 70.7 75-125 0.1228 3.16 35 S

The following samples were analyzed in this batch:

22110394-01A 22110394-02A 22110394-03A

Client: Tetra Tech EM Inc.
Work Order: 22110394
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **206159** Instrument ID **ICPMS3** Method: **SW6020B**

Sample ID: MBLK-206159-206159				Units: mg/Kg		Analysis Date: 11/7/2022 10:37 PM				
Client ID:		Run ID: ICPMS3_221107B			SeqNo: 8980276		Prep Date: 11/7/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Chromium	U	0.25								
Lead	U	0.25								
Selenium	U	0.25								
Silver	U	0.25								

LCS				Sample ID: LCS-206159-206159				Units: mg/Kg		Analysis Date: 11/7/2022 10:39 PM		
Client ID:			Run ID: ICPMS3_221107B			SeqNo: 8980277		Prep Date: 11/7/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Arsenic	4.996	0.25	5	0	99.9	80-120	0					
Barium	4.925	0.25	5	0	98.5	80-120	0					
Cadmium	5.043	0.10	5	0	101	80-120	0					
Chromium	5.045	0.25	5	0	101	80-120	0					
Lead	4.912	0.25	5	0	98.2	80-120	0					
Selenium	5.036	0.25	5	0	101	80-120	0					
Silver	4.96	0.25	5	0	99.2	80-120	0					

MS				Sample ID: 22110351-02BMS			Units: mg/Kg		Analysis Date: 11/7/2022 10:49 PM		
Client ID:			Run ID: ICPMS3_221107B			SeqNo: 8980282		Prep Date: 11/7/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	8.751	0.25	5.097	4.886	75.8	75-125	0				
Barium	39.23	0.25	5.097	31.33	155	75-125	0			SO	
Cadmium	4.248	0.10	5.097	0.1827	79.8	75-125	0				
Chromium	14.24	0.25	5.097	9.191	99.1	75-125	0				
Lead	19.97	0.25	5.097	16.95	59.2	75-125	0			S	
Selenium	4.576	0.25	5.097	0.1573	86.7	75-125	0				
Silver	4.003	0.25	5.097	0.01481	78.2	75-125	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22110394
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **206159** Instrument ID **ICPMS3** Method: **SW6020B**

MSD				Sample ID: 22110351-02BMSD			Units: mg/Kg		Analysis Date: 11/7/2022 10:51 PM		
Client ID:		Run ID: ICPMS3_221107B			SeqNo: 8980283		Prep Date: 11/7/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	7.786	0.26	5.133	4.886	56.5	75-125	8.751	11.7	20	S	
Barium	36.93	0.26	5.133	31.33	109	75-125	39.23	6.04	20	O	
Cadmium	4.177	0.10	5.133	0.1827	77.8	75-125	4.248	1.69	20		
Chromium	12.2	0.26	5.133	9.191	58.6	75-125	14.24	15.4	20	S	
Lead	17.55	0.26	5.133	16.95	11.6	75-125	19.97	12.9	20	S	
Selenium	4.444	0.26	5.133	0.1573	83.5	75-125	4.576	2.93	20		
Silver	3.85	0.26	5.133	0.01481	74.7	75-125	4.003	3.9	20	S	

The following samples were analyzed in this batch: 22110394-01A 22110394-02A 22110394-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22110394
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **R357514** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R357514				Units: % of sample		Analysis Date: 11/7/2022 02:21 PM		
Client ID:		Run ID: MOIST_221107C				SeqNo: 8980399		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.10

LCS		Sample ID: LCS-R357514				Units: % of sample		Analysis Date: 11/7/2022 02:21 PM		
Client ID:		Run ID: MOIST_221107C				SeqNo: 8980398		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 99.99 0.10 100 0 100 98-102 0

DUP		Sample ID: 22110394-01A DUP				Units: % of sample		Analysis Date: 11/7/2022 02:21 PM		
Client ID: CM-CS-A2-627-221102		Run ID: MOIST_221107C				SeqNo: 8980390		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 17.12 0.10 0 0 0 0-0 20.34 17.2 10 R

DUP		Sample ID: 22110542-01A DUP				Units: % of sample		Analysis Date: 11/7/2022 02:21 PM		
Client ID:		Run ID: MOIST_221107C				SeqNo: 8980397		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 10.38 0.10 0 0 0 0-0 10.4 0.192 10

The following samples were analyzed in this batch:

22110394-01A	22110394-02A	22110394-03A
--------------	--------------	--------------

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22110394
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **R357615** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R357615				Units: % of sample		Analysis Date: 11/8/2022 11:54 AM		
Client ID:		Run ID: MOIST_221108A				SeqNo: 8986310		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS		Sample ID: LCS-R357615				Units: % of sample		Analysis Date: 11/8/2022 11:54 AM		
Client ID:		Run ID: MOIST_221108A				SeqNo: 8986309		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.10	100	0	100	98-102	0			

DUP		Sample ID: 22110476-03A DUP				Units: % of sample		Analysis Date: 11/8/2022 11:54 AM		
Client ID:		Run ID: MOIST_221108A				SeqNo: 8986294		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	2.07	0.10	0	0	0	0-0	2.12	2.39	10	

DUP		Sample ID: 22110583-01A DUP				Units: % of sample		Analysis Date: 11/8/2022 11:54 AM		
Client ID:		Run ID: MOIST_221108A				SeqNo: 8986304		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.5	0.10	0	0	0	0-0	14.77	1.84	10	

The following samples were analyzed in this batch:

22110394-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Chain of Custody Form

ALS Group USA, Corp

Work Order

Company Name	Tetra Tech EM Inc.	Purchase Order		Parameter/Method Request for Analysis	
Send Report To	Rachel Houle	Company Name	Tetra Tech EM Inc.	A	RCRA 8 Metals
Project Name	Chudnow Metals	Invoice Attn	Accounts Payable	B	
Address	1 South Wacker Dr Suite 3700	Project #	103X903100320001D410		
City/State/Zip	Chicago, IL 60606	Address	1 South Wacker Dr Suite 3700 Suite 3700		
Phone	3122017411	City/State/Zip	Chicago, IL 60606		
e-Mail Address	rachel.houle@tetra tech.com	Phone	3122017411		
e-Mail Address		e-Mail Address			

22110394

TETRATECH-EM-CHI: Tetra Tech EM Inc.
Project: Chudnow Metals



#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	H	I	J	Sample Notes
1	CM-CS-A2-627-221102	11-02-22	0943	Soil	8	1	X										
2	CM-CS-DUP01-221102	11-02-22	0950	Soil	8	1	X										
3	CM-CS-A1-627-221102	11-02-22	1300	Soil	8	1	X										
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.						Required Turnaround Time:		Results Due:	
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NAOH 5-NA2S2O3 6-NAHSO4 7-Other 8-4 degrees C 9-5035						Std 10 Wk days <input checked="" type="checkbox"/> 5 Wk days <input type="checkbox"/> 2 Wk days <input type="checkbox"/> 24 hr			
Relinquished by	Date	Time	Received by	Date	Time	NOTES:			
	11-02-22	1600		11/3/22	0830	3.0°C 123			
						QC Reporting Level: (check box below)			
						Level II: Standard QC			
						Level III: Std QC + Raw data			
						Level IV: SW846 CLP-Like			

Sample Receipt Checklist

Client Name: **TETRATECH-EM-CHI**

Date/Time Received: **03-Nov-22 08:30**

Work Order: **22110394**

Received by: **KRW**

Checklist completed by **Keith Wierenga**

03-Nov-22

Reviewed by: **Chad Whelton**

07-Nov-22

eSignature

Date

eSignature

Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

3.0/4.0 C

IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

11/3/2022 5:01:18 PM

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



11-Nov-2022

Rachel Houle
Tetra Tech EM Inc.
1 South Wacker Dr
Suite 3700
Chicago, IL 60606

Re: **Chudnow Metals**

Work Order: **22110583**

Dear Rachel,

ALS Environmental received 2 samples on 04-Nov-2022 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22110583

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22110583-01	CM-CS-B2-627-221103	Soil		11/3/2022 11:15	11/4/2022 09:00	<input type="checkbox"/>
22110583-02	CM-CS-B1-627-221103	Soil		11/3/2022 14:24	11/4/2022 09:00	<input type="checkbox"/>

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Work Order: 22110583

Case Narrative

Samples for the above noted Work Order were received on 11/04/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Metals:

Batch 206225, Method SW6020B, Sample CM-CS-B2-627-221103 (22110583-01A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Selenium.

Batch 206225, Method SW6020B, Sample CM-CS-B1-627-221103 (22110583-02A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Selenium.

Wet Chemistry:

No other deviations or anomalies were noted.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group, USA

Date: 11-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-B2-627-221103
Collection Date: 11/3/2022 11:15 AM

Work Order: 22110583
Lab ID: 22110583-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/7/22		Analyst: KRA
Mercury	2.3		0.15	0.22	mg/Kg-dry	10	11/8/2022 12:55
<hr/>							
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/8/22		Analyst: STP
Arsenic	9.8		0.37	3.1	mg/Kg-dry	10	11/8/2022 20:33
Barium	170		2.9	3.1	mg/Kg-dry	10	11/8/2022 20:33
Cadmium	5.8		0.19	1.2	mg/Kg-dry	10	11/8/2022 20:33
Chromium	38		1.4	3.1	mg/Kg-dry	10	11/8/2022 20:33
Lead	1,100		15	31	mg/Kg-dry	100	11/9/2022 13:43
Selenium	U		2.9	3.1	mg/Kg-dry	10	11/8/2022 20:33
Silver	0.73	J	0.41	3.1	mg/Kg-dry	10	11/8/2022 20:33
<hr/>							
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	15		0.10	0.10	% of sample	1	11/8/2022 11:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 11-Nov-22

Client: Tetra Tech EM Inc.
Project: Chudnow Metals
Sample ID: CM-CS-B1-627-221103
Collection Date: 11/3/2022 02:24 PM

Work Order: 22110583
Lab ID: 22110583-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
MERCURY BY CVAA			Method: SW7471B		Prep: SW7471 / 11/7/22		Analyst: KRA
Mercury	1.4		0.16	0.24	mg/Kg-dry	10	11/8/2022 12:58
METALS BY ICP-MS			Method: SW6020B		Prep: SW3050B / 11/8/22		Analyst: STP
Arsenic	13		0.44	3.7	mg/Kg-dry	10	11/8/2022 20:35
Barium	350		3.4	3.7	mg/Kg-dry	10	11/8/2022 20:35
Cadmium	6.7		0.22	1.5	mg/Kg-dry	10	11/8/2022 20:35
Chromium	39		1.6	3.7	mg/Kg-dry	10	11/8/2022 20:35
Lead	1,000		1.8	3.7	mg/Kg-dry	10	11/8/2022 20:35
Selenium	U		3.4	3.7	mg/Kg-dry	10	11/8/2022 20:35
Silver	1.0	J	0.49	3.7	mg/Kg-dry	10	11/8/2022 20:35
MOISTURE			Method: SW3550C				Analyst: ALG
Moisture	24		0.10	0.10	% of sample	1	11/8/2022 11:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Tetra Tech EM Inc.
Work Order: 22110583
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **206170** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-206170-206170				Units: mg/Kg		Analysis Date: 11/8/2022 12:00 PM		
Client ID:		Run ID: HG4_221108A				SeqNo: 8982503		Prep Date: 11/7/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.020								

LCS		Sample ID: LCS-206170-206170				Units: mg/Kg		Analysis Date: 11/8/2022 12:02 PM		
Client ID:		Run ID: HG4_221108A				SeqNo: 8982504		Prep Date: 11/7/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1742	0.020	0.1665	0	105	80-120	0			

MS		Sample ID: 22110564-01BMS				Units: mg/Kg		Analysis Date: 11/8/2022 12:11 PM		
Client ID:		Run ID: HG4_221108A				SeqNo: 8982509		Prep Date: 11/7/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1734	0.018	0.15	0.01635	105	75-125	0			

MSD		Sample ID: 22110564-01BMSD				Units: mg/Kg		Analysis Date: 11/8/2022 12:14 PM		
Client ID:		Run ID: HG4_221108A				SeqNo: 8982510		Prep Date: 11/7/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.148	0.017	0.1415	0.01635	93.1	75-125	0.1734	15.8	35	

The following samples were analyzed in this batch:

22110583-01A 22110583-02A

Client: Tetra Tech EM Inc.
Work Order: 22110583
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **206225** Instrument ID **ICPMS3** Method: **SW6020B**

Sample ID: MBLK-206225-206225				Units: mg/Kg		Analysis Date: 11/8/2022 07:51 PM				
Client ID:		Run ID: ICPMS3_221108B			SeqNo: 8985959		Prep Date: 11/8/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Chromium	U	0.25								
Lead	U	0.25								
Selenium	U	0.25								
Silver	U	0.25								

LCS				Sample ID: LCS-206225-206225			Units: mg/Kg		Analysis Date: 11/8/2022 07:53 PM		
Client ID:			Run ID: ICPMS3_221108B			SeqNo: 8985960		Prep Date: 11/8/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	5.033	0.25	5	0	101	80-120	0				
Barium	5.437	0.25	5	0	109	80-120	0				
Cadmium	5.032	0.10	5	0	101	80-120	0				
Chromium	4.891	0.25	5	0	97.8	80-120	0				
Lead	5.136	0.25	5	0	103	80-120	0				
Selenium	4.975	0.25	5	0	99.5	80-120	0				
Silver	5.212	0.25	5	0	104	80-120	0				

MS				Sample ID: 22110495-07AMS			Units: mg/Kg		Analysis Date: 11/8/2022 08:24 PM		
Client ID:			Run ID: ICPMS3_221108B			SeqNo: 8985977		Prep Date: 11/8/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	9.808	0.30	6.09	3.232	108	75-125	0				
Barium	9.176	0.30	6.09	2.113	116	75-125	0				
Cadmium	5.584	0.12	6.09	-0.09007	93.2	75-125	0				
Chromium	26.81	0.30	6.09	13.85	213	75-125	0			S	
Lead	8.424	0.30	6.09	1.986	106	75-125	0				
Selenium	6.967	0.30	6.09	1.391	91.6	75-125	0				
Silver	5.665	0.30	6.09	0.02308	92.6	75-125	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
Work Order: 22110583
Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **206225** Instrument ID **ICPMS3** Method: **SW6020B**

MSD				Sample ID: 22110495-07AMSD			Units: mg/Kg		Analysis Date: 11/8/2022 08:25 PM	
Client ID:		Run ID: ICPMS3_221108B			SeqNo: 8985978		Prep Date: 11/8/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.689	0.30	6.09	3.232	73.2	75-125	9.808	24.2	20	SR
Barium	9.233	0.30	6.09	2.113	117	75-125	9.176	0.615	20	
Cadmium	5.788	0.12	6.09	-0.09007	96.5	75-125	5.584	3.59	20	
Chromium	26.06	0.30	6.09	13.85	201	75-125	26.81	2.82	20	
Lead	9.182	0.30	6.09	1.986	118	75-125	8.424	8.62	20	
Selenium	6.535	0.30	6.09	1.391	84.5	75-125	6.967	6.4	20	
Silver	5.855	0.30	6.09	0.02308	95.8	75-125	5.665	3.29	20	

The following samples were analyzed in this batch: 22110583-01A 22110583-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.
 Work Order: 22110583
 Project: Chudnow Metals

QC BATCH REPORT

Batch ID: **R357615** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R357615				Units: % of sample		Analysis Date: 11/8/2022 11:54 AM		
Client ID:		Run ID: MOIST_221108A				SeqNo: 8986310		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS		Sample ID: LCS-R357615				Units: % of sample		Analysis Date: 11/8/2022 11:54 AM		
Client ID:		Run ID: MOIST_221108A				SeqNo: 8986309		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.10	100	0	100	98-102	0			

DUP		Sample ID: 22110476-03A DUP				Units: % of sample		Analysis Date: 11/8/2022 11:54 AM		
Client ID:		Run ID: MOIST_221108A				SeqNo: 8986294		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	2.07	0.10	0	0	0	0-0	2.12	2.39	10	

DUP		Sample ID: 22110583-01A DUP				Units: % of sample		Analysis Date: 11/8/2022 11:54 AM		
Client ID: CM-CS-B2-627-221103		Run ID: MOIST_221108A				SeqNo: 8986304		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.5	0.10	0	0	0	0-0	14.77	1.84	10	

The following samples were analyzed in this batch:

22110583-01A 22110583-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Chain of Custody Form

ALS Group USA, Corp

Work Order

Company Name	Tetra Tech EM Inc.	Purchase Order		Parameter/Method Request for Analysis	
Send Report To	Rachel Houle	Company Name	Tetra Tech EM Inc.	A	RCRA 8 Metals
Project Name	Chudnow Metals	Invoice Attn	Accounts Payable	B	
Address	1 South Wacker Dr Suite 3700	Project #	103X9031003200010H108	C	
City/State/Zip	Chicago, IL 60606	Address	1 South Wacker Dr Suite 3700 Suite 3700		
Phone	3122017411	City/State/Zip	Chicago, IL 60606		
e-Mail Address	rachel.houle@tetratech.com	Phone	3122017411		
e-Mail Address		e-Mail Address			

22110583

TETRATECH-EM-CHI: Tetra Tech EM Inc.
Project: Chudnow Metals



#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	H	I	J	Sample Notes
1	CM-CS-B2-627-221103	11-03-22	1115	Soil	8	1	X										
2	CM-CS-B1-627-221103	11-03-22	1424	Soil	8	1	X										
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.						Required Turnaround Time:		Results Due:	
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035						Std 10 Wk days <input checked="" type="checkbox"/> 5 Wk days <input type="checkbox"/> 2 Wk days <input type="checkbox"/> 24 hr			
Relinquished by	Date	Time	Received by	Date	Time	NOTES:			
<i>[Signature]</i>	11-03-22	1600	<i>[Signature]</i>	11/4/22	0900				
						QC Reporting Level: (check box below)			
						Level II: Standard QC		Other:	
						Level III: Std QC + Raw data			
						Level IV: SW846 CLP-Like			

3.4°C

1R3

Sample Receipt Checklist

Client Name: **TETRATECH-EM-CHI**

Date/Time Received: **04-Nov-22 09:00**

Work Order: **22110583**

Received by: **KRW**

Checklist completed by **Keith Wierenga**

07-Nov-22

Reviewed by: **Chelsey Cook**

08-Nov-22

eSignature

Date

eSignature

Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

3.4/4.4 C

IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

11/7/2022 8:48:25 AM

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

ATTACHMENT 6

FENCE LINE SOIL SAMPLING ANALYTICAL REPORTS – J175829, J175992



Environment Testing

ANALYTICAL REPORT

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-175829-1
Client Project/Site: Chudnow Metals

For:

Tetra Tech EM Inc.
1 South Wacker Drive 37 Floor
Ste. 3700
Chicago, Illinois 60606

Attn: Rachel Houle

Authorized for release by:
11/8/2022 4:08:31 PM

Jim Knapp, Project Manager II
(630)758-0262
Jim.Knapp@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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QC Sample Results	13
QC Association Summary	16
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Definitions/Glossary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Job ID: 240-175829-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-175829-1

Receipt

The samples were received on 11/4/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C

PCBs

Method 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: CM-FL-A3-E/W-625-221103 (240-175829-2), CM-FL-B3-E/W-625-221103 (240-175829-3), (180-147388-B-1-A), (180-147388-B-1-B MS) and (180-147388-B-1-C MSD).

Method 8082A: The following samples were diluted due to the abundance of target analytes: CM-FL-A3-N/S-626-221103 (240-175829-1) and CM-FL-A3-E/W-625-221103 (240-175829-2). As such, elevated reporting limits (RLs) are provided.

Method 8082A: The initial calibration verification (ICV) result for batch 240-550629 was above the upper control limit for Aroclor 1268. Sample results were non-detects for this analyte, and have been reported as qualified data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAN
6010D	Metals (ICP)	SW846	EET CAN
7471B	Mercury (CVAA)	SW846	EET CAN
Moisture	Percent Moisture	EPA	EET CAN
3050B	Preparation, Metals	SW846	EET CAN
3546	Microwave Extraction	SW846	EET CAN
7471B	Preparation, Mercury	SW846	EET CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-175829-1	CM-FL-A3-N/S-626-221103	Solid	11/03/22 13:40	11/04/22 09:40
240-175829-2	CM-FL-A3-E/W-625-221103	Solid	11/03/22 13:45	11/04/22 09:40
240-175829-3	CM-FL-B3-E/W-625-221103	Solid	11/03/22 13:46	11/04/22 09:40

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Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Client Sample ID: CM-FL-A3-N/S-626-221103

Lab Sample ID: 240-175829-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	4600		590	250	ug/Kg	10	✱	8082A	Total/NA
Aluminum	10000		20	5.4	mg/Kg	1	✱	6010D	Total/NA
Silver	0.48	J	1.0	0.083	mg/Kg	1	✱	6010D	Total/NA
Barium	1300		20	0.37	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.41	J	0.51	0.055	mg/Kg	1	✱	6010D	Total/NA
Calcium	88000		5100	370	mg/Kg	10	✱	6010D	Total/NA
Cadmium	6.0		0.51	0.049	mg/Kg	1	✱	6010D	Total/NA
Cobalt	7.3		1.0	0.20	mg/Kg	1	✱	6010D	Total/NA
Chromium	58		1.0	0.35	mg/Kg	1	✱	6010D	Total/NA
Copper	270		2.6	0.24	mg/Kg	1	✱	6010D	Total/NA
Iron	26000		20	7.1	mg/Kg	1	✱	6010D	Total/NA
Potassium	1800		510	81	mg/Kg	1	✱	6010D	Total/NA
Magnesium	41000		510	47	mg/Kg	1	✱	6010D	Total/NA
Manganese	540		1.5	1.1	mg/Kg	1	✱	6010D	Total/NA
Sodium	2000		510	64	mg/Kg	1	✱	6010D	Total/NA
Nickel	72		4.1	0.24	mg/Kg	1	✱	6010D	Total/NA
Antimony	9.1		2.0	0.37	mg/Kg	1	✱	6010D	Total/NA
Vanadium	22		5.1	0.84	mg/Kg	1	✱	6010D	Total/NA
Zinc	2400		51	14	mg/Kg	10	✱	6010D	Total/NA
Arsenic	17		1.5	0.32	mg/Kg	1	✱	6010D	Total/NA
Lead	2300		10	2.9	mg/Kg	10	✱	6010D	Total/NA
Selenium	0.80	J	2.0	0.48	mg/Kg	1	✱	6010D	Total/NA
Mercury	3.8		0.50	0.090	mg/Kg	5	✱	7471B	Total/NA

Client Sample ID: CM-FL-A3-E/W-625-221103

Lab Sample ID: 240-175829-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2500		540	230	ug/Kg	10	✱	8082A	Total/NA
Aluminum	3300		17	4.5	mg/Kg	1	✱	6010D	Total/NA
Silver	0.24	J	0.84	0.068	mg/Kg	1	✱	6010D	Total/NA
Barium	380		17	0.30	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.085	J	0.42	0.045	mg/Kg	1	✱	6010D	Total/NA
Calcium	120000		4200	300	mg/Kg	10	✱	6010D	Total/NA
Cadmium	3.3		0.42	0.040	mg/Kg	1	✱	6010D	Total/NA
Cobalt	5.2		0.84	0.17	mg/Kg	1	✱	6010D	Total/NA
Chromium	30		0.84	0.29	mg/Kg	1	✱	6010D	Total/NA
Copper	190		21	2.0	mg/Kg	10	✱	6010D	Total/NA
Iron	21000		17	5.8	mg/Kg	1	✱	6010D	Total/NA
Potassium	770		420	66	mg/Kg	1	✱	6010D	Total/NA
Magnesium	63000		4200	380	mg/Kg	10	✱	6010D	Total/NA
Manganese	430		1.3	0.93	mg/Kg	1	✱	6010D	Total/NA
Sodium	270	J	420	52	mg/Kg	1	✱	6010D	Total/NA
Nickel	39		3.3	0.19	mg/Kg	1	✱	6010D	Total/NA
Antimony	1.5	J	1.7	0.30	mg/Kg	1	✱	6010D	Total/NA
Vanadium	12		4.2	0.69	mg/Kg	1	✱	6010D	Total/NA
Zinc	760		42	11	mg/Kg	10	✱	6010D	Total/NA
Arsenic	6.2		1.3	0.26	mg/Kg	1	✱	6010D	Total/NA
Lead	220		0.84	0.24	mg/Kg	1	✱	6010D	Total/NA
Selenium	0.74	J	1.7	0.39	mg/Kg	1	✱	6010D	Total/NA
Mercury	5.4		0.53	0.096	mg/Kg	4	✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Client Sample ID: CM-FL-B3-E/W-625-221103

Lab Sample ID: 240-175829-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor-1254	620		53	22	ug/Kg	1	✱		8082A	Total/NA
Aluminum	3900		22	5.8	mg/Kg	1	✱		6010D	Total/NA
Barium	35		22	0.39	mg/Kg	1	✱		6010D	Total/NA
Beryllium	0.19	J	0.54	0.059	mg/Kg	1	✱		6010D	Total/NA
Calcium	82000		2700	200	mg/Kg	5	✱		6010D	Total/NA
Cadmium	0.88		0.54	0.052	mg/Kg	1	✱		6010D	Total/NA
Cobalt	4.4		1.1	0.22	mg/Kg	1	✱		6010D	Total/NA
Chromium	11		1.1	0.37	mg/Kg	1	✱		6010D	Total/NA
Copper	56		2.7	0.26	mg/Kg	1	✱		6010D	Total/NA
Iron	14000		22	7.5	mg/Kg	1	✱		6010D	Total/NA
Potassium	910		540	86	mg/Kg	1	✱		6010D	Total/NA
Magnesium	32000		540	50	mg/Kg	1	✱		6010D	Total/NA
Manganese	360		1.6	1.2	mg/Kg	1	✱		6010D	Total/NA
Sodium	250	J	540	68	mg/Kg	1	✱		6010D	Total/NA
Nickel	17		4.3	0.25	mg/Kg	1	✱		6010D	Total/NA
Antimony	1.1	J	2.2	0.39	mg/Kg	1	✱		6010D	Total/NA
Vanadium	14		5.4	0.89	mg/Kg	1	✱		6010D	Total/NA
Zinc	200		5.4	1.5	mg/Kg	1	✱		6010D	Total/NA
Arsenic	43		1.6	0.34	mg/Kg	1	✱		6010D	Total/NA
Lead	150		1.1	0.31	mg/Kg	1	✱		6010D	Total/NA
Mercury	0.35		0.13	0.023	mg/Kg	1	✱		7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Client Sample ID: CM-FL-A3-N/S-626-221103

Lab Sample ID: 240-175829-1

Date Collected: 11/03/22 13:40

Matrix: Solid

Date Received: 11/04/22 09:40

Percent Solids: 86.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<590		590	290	ug/Kg	☆	11/04/22 11:12	11/07/22 10:04	10
Aroclor-1221	<590		590	350	ug/Kg	☆	11/04/22 11:12	11/07/22 10:04	10
Aroclor-1232	<590		590	250	ug/Kg	☆	11/04/22 11:12	11/07/22 10:04	10
Aroclor-1242	<590		590	220	ug/Kg	☆	11/04/22 11:12	11/07/22 10:04	10
Aroclor-1248	<590		590	200	ug/Kg	☆	11/04/22 11:12	11/07/22 10:04	10
Aroclor-1254	4600		590	250	ug/Kg	☆	11/04/22 11:12	11/07/22 10:04	10
Aroclor-1260	<590		590	250	ug/Kg	☆	11/04/22 11:12	11/07/22 10:04	10
Aroclor-1262	<590		590	260	ug/Kg	☆	11/04/22 11:12	11/07/22 10:04	10
Aroclor-1268	<590		590	190	ug/Kg	☆	11/04/22 11:12	11/07/22 10:04	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		10 - 149	11/04/22 11:12	11/07/22 10:04	10
DCB Decachlorobiphenyl	85		10 - 174	11/04/22 11:12	11/07/22 10:04	10

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		20	5.4	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Silver	0.48	J	1.0	0.083	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Barium	1300		20	0.37	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Beryllium	0.41	J	0.51	0.055	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Calcium	88000		5100	370	mg/Kg	☆	11/04/22 13:00	11/07/22 15:03	10
Cadmium	6.0		0.51	0.049	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Cobalt	7.3		1.0	0.20	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Chromium	58		1.0	0.35	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Copper	270		2.6	0.24	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Iron	26000		20	7.1	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Potassium	1800		510	81	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Magnesium	41000		510	47	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Manganese	540		1.5	1.1	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Sodium	2000		510	64	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Nickel	72		4.1	0.24	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Antimony	9.1		2.0	0.37	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Vanadium	22		5.1	0.84	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Zinc	2400		51	14	mg/Kg	☆	11/04/22 13:00	11/07/22 15:03	10
Arsenic	17		1.5	0.32	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Lead	2300		10	2.9	mg/Kg	☆	11/04/22 13:00	11/07/22 15:03	10
Selenium	0.80	J	2.0	0.48	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1
Thallium	<2.0		2.0	0.41	mg/Kg	☆	11/04/22 13:00	11/07/22 14:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.8		0.50	0.090	mg/Kg	☆	11/04/22 12:15	11/07/22 17:14	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	86.6		0.1	0.1	%			11/04/22 12:50	1
Percent Moisture (EPA Moisture)	13.4		0.1	0.1	%			11/04/22 12:50	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Client Sample ID: CM-FL-A3-E/W-625-221103

Lab Sample ID: 240-175829-2

Date Collected: 11/03/22 13:45

Matrix: Solid

Date Received: 11/04/22 09:40

Percent Solids: 88.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<540		540	270	ug/Kg	✱	11/04/22 11:12	11/07/22 10:22	10
Aroclor-1221	<540		540	330	ug/Kg	✱	11/04/22 11:12	11/07/22 10:22	10
Aroclor-1232	<540		540	230	ug/Kg	✱	11/04/22 11:12	11/07/22 10:22	10
Aroclor-1242	<540		540	210	ug/Kg	✱	11/04/22 11:12	11/07/22 10:22	10
Aroclor-1248	<540		540	190	ug/Kg	✱	11/04/22 11:12	11/07/22 10:22	10
Aroclor-1254	2500		540	230	ug/Kg	✱	11/04/22 11:12	11/07/22 10:22	10
Aroclor-1260	<540		540	230	ug/Kg	✱	11/04/22 11:12	11/07/22 10:22	10
Aroclor-1262	<540		540	240	ug/Kg	✱	11/04/22 11:12	11/07/22 10:22	10
Aroclor-1268	<540		540	170	ug/Kg	✱	11/04/22 11:12	11/07/22 10:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		10 - 149	11/04/22 11:12	11/07/22 10:22	10
DCB Decachlorobiphenyl	91	p	10 - 174	11/04/22 11:12	11/07/22 10:22	10

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3300		17	4.5	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Silver	0.24	J	0.84	0.068	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Barium	380		17	0.30	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Beryllium	0.085	J	0.42	0.045	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Calcium	120000		4200	300	mg/Kg	✱	11/04/22 13:00	11/07/22 15:07	10
Cadmium	3.3		0.42	0.040	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Cobalt	5.2		0.84	0.17	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Chromium	30		0.84	0.29	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Copper	190		21	2.0	mg/Kg	✱	11/04/22 13:00	11/07/22 15:07	10
Iron	21000		17	5.8	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Potassium	770		420	66	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Magnesium	63000		4200	380	mg/Kg	✱	11/04/22 13:00	11/07/22 15:07	10
Manganese	430		1.3	0.93	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Sodium	270	J	420	52	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Nickel	39		3.3	0.19	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Antimony	1.5	J	1.7	0.30	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Vanadium	12		4.2	0.69	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Zinc	760		42	11	mg/Kg	✱	11/04/22 13:00	11/07/22 15:07	10
Arsenic	6.2		1.3	0.26	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Lead	220		0.84	0.24	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Selenium	0.74	J	1.7	0.39	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1
Thallium	<1.7		1.7	0.33	mg/Kg	✱	11/04/22 13:00	11/07/22 14:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.4		0.53	0.096	mg/Kg	✱	11/04/22 12:15	11/07/22 17:28	4

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	88.7		0.1	0.1	%			11/04/22 12:50	1
Percent Moisture (EPA Moisture)	11.3		0.1	0.1	%			11/04/22 12:50	1

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Client Sample ID: CM-FL-B3-E/W-625-221103

Lab Sample ID: 240-175829-3

Date Collected: 11/03/22 13:46

Matrix: Solid

Date Received: 11/04/22 09:40

Percent Solids: 90.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<53		53	27	ug/Kg	✱	11/04/22 11:12	11/07/22 10:40	1
Aroclor-1221	<53		53	32	ug/Kg	✱	11/04/22 11:12	11/07/22 10:40	1
Aroclor-1232	<53		53	22	ug/Kg	✱	11/04/22 11:12	11/07/22 10:40	1
Aroclor-1242	<53		53	20	ug/Kg	✱	11/04/22 11:12	11/07/22 10:40	1
Aroclor-1248	<53		53	18	ug/Kg	✱	11/04/22 11:12	11/07/22 10:40	1
Aroclor-1254	620		53	22	ug/Kg	✱	11/04/22 11:12	11/07/22 10:40	1
Aroclor-1260	<53		53	22	ug/Kg	✱	11/04/22 11:12	11/07/22 10:40	1
Aroclor-1262	<53		53	23	ug/Kg	✱	11/04/22 11:12	11/07/22 10:40	1
Aroclor-1268	<53		53	17	ug/Kg	✱	11/04/22 11:12	11/07/22 10:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		10 - 149	11/04/22 11:12	11/07/22 10:40	1
DCB Decachlorobiphenyl	74		10 - 174	11/04/22 11:12	11/07/22 10:40	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3900		22	5.8	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Silver	<1.1		1.1	0.088	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Barium	35		22	0.39	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Beryllium	0.19	J	0.54	0.059	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Calcium	82000		2700	200	mg/Kg	✱	11/04/22 13:00	11/07/22 15:11	5
Cadmium	0.88		0.54	0.052	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Cobalt	4.4		1.1	0.22	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Chromium	11		1.1	0.37	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Copper	56		2.7	0.26	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Iron	14000		22	7.5	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Potassium	910		540	86	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Magnesium	32000		540	50	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Manganese	360		1.6	1.2	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Sodium	250	J	540	68	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Nickel	17		4.3	0.25	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Antimony	1.1	J	2.2	0.39	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Vanadium	14		5.4	0.89	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Zinc	200		5.4	1.5	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Arsenic	43		1.6	0.34	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Lead	150		1.1	0.31	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Selenium	<2.2		2.2	0.51	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1
Thallium	<2.2		2.2	0.43	mg/Kg	✱	11/04/22 13:00	11/07/22 14:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.35		0.13	0.023	mg/Kg	✱	11/04/22 12:15	11/07/22 17:30	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	90.5		0.1	0.1	%			11/04/22 12:50	1
Percent Moisture (EPA Moisture)	9.5		0.1	0.1	%			11/04/22 12:50	1

Eurofins Canton

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCBP1
		(10-149)	(10-174)
240-175829-1	CM-FL-A3-N/S-626-221103	90	85
240-175829-2	CM-FL-A3-E/W-625-221103	81	91 p
240-175829-3	CM-FL-B3-E/W-625-221103	72	74
LCS 240-550466/2-A	Lab Control Sample	68	81
MB 240-550466/1-A	Method Blank	77	87

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-550466/1-A

Matrix: Solid

Analysis Batch: 550629

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 550466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<50		50	25	ug/Kg		11/04/22 09:46	11/07/22 09:29	1
Aroclor-1221	<50		50	30	ug/Kg		11/04/22 09:46	11/07/22 09:29	1
Aroclor-1232	<50		50	21	ug/Kg		11/04/22 09:46	11/07/22 09:29	1
Aroclor-1242	<50		50	19	ug/Kg		11/04/22 09:46	11/07/22 09:29	1
Aroclor-1248	<50		50	17	ug/Kg		11/04/22 09:46	11/07/22 09:29	1
Aroclor-1254	<50		50	21	ug/Kg		11/04/22 09:46	11/07/22 09:29	1
Aroclor-1260	<50		50	21	ug/Kg		11/04/22 09:46	11/07/22 09:29	1
Aroclor-1262	<50		50	22	ug/Kg		11/04/22 09:46	11/07/22 09:29	1
Aroclor-1268	<50		50	16	ug/Kg		11/04/22 09:46	11/07/22 09:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		10 - 149	11/04/22 09:46	11/07/22 09:29	1
DCB Decachlorobiphenyl	87		10 - 174	11/04/22 09:46	11/07/22 09:29	1

Lab Sample ID: LCS 240-550466/2-A

Matrix: Solid

Analysis Batch: 550629

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 550466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	1000	617		ug/Kg		62	28 - 140
Aroclor-1260	1000	705		ug/Kg		70	39 - 153

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	68		10 - 149
DCB Decachlorobiphenyl	81		10 - 174

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-550329/1-A

Matrix: Solid

Analysis Batch: 550793

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 550329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20	5.3	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Silver	<1.0		1.0	0.081	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Barium	<20		20	0.36	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Beryllium	<0.50		0.50	0.054	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Calcium	<500		500	36	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Cadmium	<0.50		0.50	0.048	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Cobalt	<1.0		1.0	0.20	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Chromium	<1.0		1.0	0.34	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Copper	<2.5		2.5	0.24	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Iron	<20		20	6.9	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Potassium	<500		500	79	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Magnesium	<500		500	46	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Manganese	<1.5		1.5	1.1	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Sodium	<500		500	63	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Nickel	<4.0		4.0	0.23	mg/Kg		11/04/22 13:00	11/07/22 13:44	1

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 240-550329/1-A

Matrix: Solid

Analysis Batch: 550793

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 550329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.36	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Vanadium	<5.0		5.0	0.82	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Zinc	<5.0		5.0	1.4	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Arsenic	<1.5		1.5	0.32	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Lead	<1.0		1.0	0.28	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Selenium	<2.0		2.0	0.47	mg/Kg		11/04/22 13:00	11/07/22 13:44	1
Thallium	<2.0		2.0	0.40	mg/Kg		11/04/22 13:00	11/07/22 13:44	1

Lab Sample ID: LCS 240-550329/2-A

Matrix: Solid

Analysis Batch: 550793

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 550329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	1000	964		mg/Kg		96	80 - 120
Silver	10.0	9.89		mg/Kg		99	80 - 120
Barium	200	185		mg/Kg		92	80 - 120
Beryllium	100	97.8		mg/Kg		98	80 - 120
Calcium	5000	4820		mg/Kg		96	80 - 120
Cadmium	100	101		mg/Kg		101	80 - 120
Cobalt	100	97.6		mg/Kg		98	80 - 120
Chromium	100	96.2		mg/Kg		96	80 - 120
Copper	100	92.3		mg/Kg		92	80 - 120
Iron	1000	955		mg/Kg		96	80 - 120
Potassium	5000	4830		mg/Kg		97	80 - 120
Magnesium	5000	4800		mg/Kg		96	80 - 120
Manganese	100	95.8		mg/Kg		96	80 - 120
Sodium	5000	4810		mg/Kg		96	80 - 120
Nickel	100	99.2		mg/Kg		99	80 - 120
Antimony	100	105		mg/Kg		105	80 - 120
Vanadium	100	97.0		mg/Kg		97	80 - 120
Zinc	100	102		mg/Kg		102	80 - 120
Arsenic	200	201		mg/Kg		101	80 - 120
Lead	100	95.6		mg/Kg		96	80 - 120
Selenium	200	199		mg/Kg		99	80 - 120
Thallium	200	199		mg/Kg		100	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 240-550330/1-A

Matrix: Solid

Analysis Batch: 550690

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 550330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.10		0.10	0.018	mg/Kg		11/04/22 12:15	11/04/22 18:23	1

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 240-550330/2-A
Matrix: Solid
Analysis Batch: 550690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 550330

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.833	0.832		mg/Kg		100	80 - 120

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

GC Semi VOA

Prep Batch: 550466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175829-1	CM-FL-A3-N/S-626-221103	Total/NA	Solid	3546	
240-175829-2	CM-FL-A3-E/W-625-221103	Total/NA	Solid	3546	
240-175829-3	CM-FL-B3-E/W-625-221103	Total/NA	Solid	3546	
MB 240-550466/1-A	Method Blank	Total/NA	Solid	3546	
LCS 240-550466/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 550629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175829-1	CM-FL-A3-N/S-626-221103	Total/NA	Solid	8082A	550466
240-175829-2	CM-FL-A3-E/W-625-221103	Total/NA	Solid	8082A	550466
240-175829-3	CM-FL-B3-E/W-625-221103	Total/NA	Solid	8082A	550466
MB 240-550466/1-A	Method Blank	Total/NA	Solid	8082A	550466
LCS 240-550466/2-A	Lab Control Sample	Total/NA	Solid	8082A	550466

Metals

Prep Batch: 550329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175829-1	CM-FL-A3-N/S-626-221103	Total/NA	Solid	3050B	
240-175829-2	CM-FL-A3-E/W-625-221103	Total/NA	Solid	3050B	
240-175829-3	CM-FL-B3-E/W-625-221103	Total/NA	Solid	3050B	
MB 240-550329/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 240-550329/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 550330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175829-1	CM-FL-A3-N/S-626-221103	Total/NA	Solid	7471B	
240-175829-2	CM-FL-A3-E/W-625-221103	Total/NA	Solid	7471B	
240-175829-3	CM-FL-B3-E/W-625-221103	Total/NA	Solid	7471B	
MB 240-550330/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 240-550330/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 550690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-550330/1-A	Method Blank	Total/NA	Solid	7471B	550330
LCS 240-550330/2-A	Lab Control Sample	Total/NA	Solid	7471B	550330

Analysis Batch: 550793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175829-1	CM-FL-A3-N/S-626-221103	Total/NA	Solid	6010D	550329
240-175829-1	CM-FL-A3-N/S-626-221103	Total/NA	Solid	6010D	550329
240-175829-2	CM-FL-A3-E/W-625-221103	Total/NA	Solid	6010D	550329
240-175829-2	CM-FL-A3-E/W-625-221103	Total/NA	Solid	6010D	550329
240-175829-3	CM-FL-B3-E/W-625-221103	Total/NA	Solid	6010D	550329
240-175829-3	CM-FL-B3-E/W-625-221103	Total/NA	Solid	6010D	550329
MB 240-550329/1-A	Method Blank	Total/NA	Solid	6010D	550329
LCS 240-550329/2-A	Lab Control Sample	Total/NA	Solid	6010D	550329

Analysis Batch: 550888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175829-1	CM-FL-A3-N/S-626-221103	Total/NA	Solid	7471B	550330

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QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Metals (Continued)

Analysis Batch: 550888 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175829-2	CM-FL-A3-E/W-625-221103	Total/NA	Solid	7471B	550330
240-175829-3	CM-FL-B3-E/W-625-221103	Total/NA	Solid	7471B	550330

General Chemistry

Analysis Batch: 550507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175829-1	CM-FL-A3-N/S-626-221103	Total/NA	Solid	Moisture	
240-175829-2	CM-FL-A3-E/W-625-221103	Total/NA	Solid	Moisture	
240-175829-3	CM-FL-B3-E/W-625-221103	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Client Sample ID: CM-FL-A3-N/S-626-221103

Lab Sample ID: 240-175829-1

Date Collected: 11/03/22 13:40

Matrix: Solid

Date Received: 11/04/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	550507	MMS	EET CAN	11/04/22 12:50

Client Sample ID: CM-FL-A3-N/S-626-221103

Lab Sample ID: 240-175829-1

Date Collected: 11/03/22 13:40

Matrix: Solid

Date Received: 11/04/22 09:40

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			550466	AJ	EET CAN	11/04/22 11:12
Total/NA	Analysis	8082A		10	550629	RR	EET CAN	11/07/22 10:04
Total/NA	Prep	3050B			550329	AJC	EET CAN	11/04/22 13:00
Total/NA	Analysis	6010D		1	550793	KLC	EET CAN	11/07/22 14:09
Total/NA	Prep	3050B			550329	AJC	EET CAN	11/04/22 13:00
Total/NA	Analysis	6010D		10	550793	KLC	EET CAN	11/07/22 15:03
Total/NA	Prep	7471B			550330	MRL	EET CAN	11/04/22 12:15
Total/NA	Analysis	7471B		5	550888	DSH	EET CAN	11/07/22 17:14

Client Sample ID: CM-FL-A3-E/W-625-221103

Lab Sample ID: 240-175829-2

Date Collected: 11/03/22 13:45

Matrix: Solid

Date Received: 11/04/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	550507	MMS	EET CAN	11/04/22 12:50

Client Sample ID: CM-FL-A3-E/W-625-221103

Lab Sample ID: 240-175829-2

Date Collected: 11/03/22 13:45

Matrix: Solid

Date Received: 11/04/22 09:40

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			550466	AJ	EET CAN	11/04/22 11:12
Total/NA	Analysis	8082A		10	550629	RR	EET CAN	11/07/22 10:22
Total/NA	Prep	3050B			550329	AJC	EET CAN	11/04/22 13:00
Total/NA	Analysis	6010D		1	550793	KLC	EET CAN	11/07/22 14:13
Total/NA	Prep	3050B			550329	AJC	EET CAN	11/04/22 13:00
Total/NA	Analysis	6010D		10	550793	KLC	EET CAN	11/07/22 15:07
Total/NA	Prep	7471B			550330	MRL	EET CAN	11/04/22 12:15
Total/NA	Analysis	7471B		4	550888	DSH	EET CAN	11/07/22 17:28

Client Sample ID: CM-FL-B3-E/W-625-221103

Lab Sample ID: 240-175829-3

Date Collected: 11/03/22 13:46

Matrix: Solid

Date Received: 11/04/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	550507	MMS	EET CAN	11/04/22 12:50

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Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Client Sample ID: CM-FL-B3-E/W-625-221103

Lab Sample ID: 240-175829-3

Date Collected: 11/03/22 13:46

Matrix: Solid

Date Received: 11/04/22 09:40

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			550466	AJ	EET CAN	11/04/22 11:12
Total/NA	Analysis	8082A		1	550629	RR	EET CAN	11/07/22 10:40
Total/NA	Prep	3050B			550329	AJC	EET CAN	11/04/22 13:00
Total/NA	Analysis	6010D		1	550793	KLC	EET CAN	11/07/22 14:17
Total/NA	Prep	3050B			550329	AJC	EET CAN	11/04/22 13:00
Total/NA	Analysis	6010D		5	550793	KLC	EET CAN	11/07/22 15:11
Total/NA	Prep	7471B			550330	MRL	EET CAN	11/04/22 12:15
Total/NA	Analysis	7471B		1	550888	DSH	EET CAN	11/07/22 17:30

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175829-1

Laboratory: Eurofins Canton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200004	07-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3546	Solid	Aroclor-1262
8082A	3546	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Minnesota	NELAP	039-999-348	12-31-22
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Eurofins Canton

180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing
America

Client Information Client Contact: Rachel Houle Company: Tetra Tech EM Inc. Address: 1 South Wacker Drive 37 Floor Ste. 3700 City: Chicago State, Zip: IL, 60606 Phone: 312-201-7721 (Tel) Email: rachel.houle@tetratech.com Project Name: Chudnow Metals Site:		Sampler: Daniel Hagle Lab PM: Knapp, Jim D Phone: 708-955-4569 E-Mail: Jim.Knapp@eurofins.com PWSID:	Carrier Tracking No(s): 240-99594-36245.1 State of Origin:	COC No: 240-99594-36245.1 Page: 1 of 1 Job #:							
Due Date Requested: TAT Requested (days): 2 Days Compliance Project: Yes No PO #: 1168715/ETA-76 WO #:		Analysis Requested									
Sample Identification CN-FL-A3-N/S-626-221103 CN-FL-A3-E/W-625-221103 CN-FL-B3-E/W-625-221103		Sample Date 11-03-22 11-03-22 11-03-22	Sample Time 1340 1345 1346	Sample Type (C=Comp, G=grab) C C C	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, As=As) Solid Solid Solid	Field Filtered Sample (Yes or No) X X X	Perform MS/MSD (Yes or No) X X X	PCB's PCRA & Metals	Total Number of Containers 240-175829 Chain of Custody	Special Instructions/Note: Possible high PCB concentrations 725 ppm	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months									
Empty Kit Relinquished by: Relinquished by: [Signature] Relinquished by: Relinquished by:		Special Instructions/QC Requirements:									
Date: 11-03-22 1650 Company: Tetra Tech		Date: 11-04-22 940 Company: Tetra Tech									
Date: 11-03-22 1650 Company: Tetra Tech		Date: 11-04-22 940 Company: Tetra Tech									
Date: 11-03-22 1650 Company: Tetra Tech		Date: 11-04-22 940 Company: Tetra Tech									
Custody Seals Intact: Yes No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:									

Eurofins - Canton Sample Receipt Form/Narrative				Login # : _____	
Barberton Facility					
Client <u>Tetra tech</u>		Site Name _____		Cooler unpacked by: <u>Brandon</u>	
Cooler Received on <u>11-4-22</u>		Opened on <u>11-4-22</u>			
FedEx: 1 st Grd <input checked="" type="checkbox"/> Exp <input type="checkbox"/> UPS <input type="checkbox"/> FAS <input type="checkbox"/> Clipper <input type="checkbox"/> Client Drop Off <input type="checkbox"/> Eurofins Courier <input type="checkbox"/> Other <input type="checkbox"/>					
Receipt After-hours: Drop-off Date/Time _____				Storage Location _____	
Eurofins Cooler # <u>TA</u>		Foam Box <input type="checkbox"/> Client Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/>			
Packing material used: <u>Bubble Wrap</u> Foam <input type="checkbox"/> Plastic Bag <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/>					
COOLANT: <u>Wet Ice</u> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Water <input type="checkbox"/> None <input type="checkbox"/>					
1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form					
IR GUN# IR-13 (CF +0.7 °C) Observed Cooler Temp. <u>3.1</u> °C Corrected Cooler Temp. <u>3.8</u> °C					
IR GUN #IR-15 (CF 0.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C					
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No					
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA					
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA					
-Were tamper/custody seals intact and uncompromised? Yes No NA					
3. Shippers' packing slip attached to the cooler(s)? Yes No					
4. Did custody papers accompany the sample(s)? Yes No					
5. Were the custody papers relinquished & signed in the appropriate place? Yes No					
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No					
7. Did all bottles arrive in good condition (Unbroken)? Yes No					
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No					
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?					
10. Were correct bottle(s) used for the test(s) indicated? Yes No					
11. Sufficient quantity received to perform indicated analyses? Yes No					
12. Are these work share samples and all listed on the COC? Yes No					
If yes, Questions 13-17 have been checked at the originating laboratory.					
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No <u>NA</u> pH Strip Lot# <u>HC286797</u>					
14. Were VOAs on the COC? Yes No <u>NA</u>					
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No <u>NA</u>					
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No <u>NA</u>					
17. Was a LL Hg or Me Hg trip blank present? Yes No <u>NA</u>					
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____					
Concerning _____					

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES <input type="checkbox"/> additional next page		Samples processed by: _____
<div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div>		
19. SAMPLE CONDITION		
Sample(s) _____ were received after the recommended holding time had expired.		
Sample(s) _____ were received in a broken container.		
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)		
20. SAMPLE PRESERVATION		
Sample(s) _____ were further preserved in the laboratory.		
Time preserved: _____ Preservative(s) added/Lot number(s): _____		
VOA Sample Preservation - Date/Time VOAs Frozen: _____		



Environment Testing

ANALYTICAL REPORT

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-175992-1
Client Project/Site: Chudnow Metals

For:

Tetra Tech EM Inc.
1 South Wacker Drive 37 Floor
Ste. 3700
Chicago, Illinois 60606

Attn: Rachel Houle

Authorized for release by:
11/10/2022 8:18:42 PM

Jim Knapp, Project Manager II
(630)758-0262
Jim.Knapp@et.eurofinsus.com

LINKS

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results through



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Results relate only to the items tested and the sample(s) as received by the laboratory.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the {0} Project Manager.

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Definitions/Glossary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Job ID: 240-175992-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-175992-1

Comments

No additional comments.

Receipt

The samples were received on 11/8/2022 10:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.6° C.

GC Semi VOA

Method 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: CM-FL-E3-N/S-625-221107 (240-175992-2), CM-FL-DUP01-221107 (240-175992-3), CM-FL-E3-E/W-625-221107 (240-175992-4), CM-FL-D3-E/W-625-221107 (240-175992-5), CM-FL-D3-E/W-625-221107 (240-175992-5[MS]), CM-FL-D3-E/W-625-221107 (240-175992-5[MSD]), CM-FL-C3-N/S-625-221107 (240-175992-6) and CM-FL-C3-E/W-625-221107 (240-175992-7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Method Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAN
6010D	Metals (ICP)	SW846	EET CAN
7471B	Mercury (CVAA)	SW846	EET CAN
Moisture	Percent Moisture	EPA	EET CAN
3050B	Preparation, Metals	SW846	EET CAN
3546	Microwave Extraction	SW846	EET CAN
7471B	Preparation, Mercury	SW846	EET CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-175992-1	CM-CS-A2A3A4-628-221107	Solid	11/07/22 11:00	11/08/22 10:50
240-175992-2	CM-FL-E3-N/S-625-221107	Solid	11/07/22 13:22	11/08/22 10:50
240-175992-3	CM-FL-DUP01-221107	Solid	11/07/22 13:24	11/08/22 10:50
240-175992-4	CM-FL-E3-E/W-625-221107	Solid	11/07/22 13:26	11/08/22 10:50
240-175992-5	CM-FL-D3-E/W-625-221107	Solid	11/07/22 13:41	11/08/22 10:50
240-175992-6	CM-FL-C3-N/S-625-221107	Solid	11/07/22 13:50	11/08/22 10:50
240-175992-7	CM-FL-C3-E/W-625-221107	Solid	11/07/22 13:55	11/08/22 10:50

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Client Sample ID: CM-CS-A2A3A4-628-221107

Lab Sample ID: 240-175992-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	120		65	25	ug/Kg	1	✱	8082A	Total/NA
Aroclor-1254	1500		65	27	ug/Kg	1	✱	8082A	Total/NA
Arsenic	4.3		1.5	0.32	mg/Kg	1	✱	6010D	Total/NA
Barium	110		20	0.37	mg/Kg	1	✱	6010D	Total/NA
Cadmium	3.9		0.51	0.049	mg/Kg	1	✱	6010D	Total/NA
Chromium	28		1.0	0.35	mg/Kg	1	✱	6010D	Total/NA
Lead	270		1.0	0.29	mg/Kg	1	✱	6010D	Total/NA
Silver	0.61	J	1.0	0.083	mg/Kg	1	✱	6010D	Total/NA
Mercury	2.9		0.65	0.12	mg/Kg	5	✱	7471B	Total/NA

Client Sample ID: CM-FL-E3-N/S-625-221107

Lab Sample ID: 240-175992-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	23	J	54	20	ug/Kg	1	✱	8082A	Total/NA
Aroclor-1254	54		54	23	ug/Kg	1	✱	8082A	Total/NA
Arsenic	4.5		1.3	0.27	mg/Kg	1	✱	6010D	Total/NA
Barium	15	J	17	0.31	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.23	J	0.43	0.041	mg/Kg	1	✱	6010D	Total/NA
Chromium	8.6		0.85	0.29	mg/Kg	1	✱	6010D	Total/NA
Lead	15		0.85	0.24	mg/Kg	1	✱	6010D	Total/NA
Silver	0.11	J	0.85	0.069	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.074	J	0.10	0.019	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: CM-FL-DUP01-221107

Lab Sample ID: 240-175992-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	64		56	21	ug/Kg	1	✱	8082A	Total/NA
Aroclor-1254	140		56	24	ug/Kg	1	✱	8082A	Total/NA
Arsenic	3.5		1.5	0.33	mg/Kg	1	✱	6010D	Total/NA
Barium	15	J	21	0.37	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.21	J	0.52	0.049	mg/Kg	1	✱	6010D	Total/NA
Chromium	5.7		1.0	0.35	mg/Kg	1	✱	6010D	Total/NA
Lead	11		1.0	0.29	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.035	J	0.12	0.021	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: CM-FL-E3-E/W-625-221107

Lab Sample ID: 240-175992-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	1200		290	110	ug/Kg	5	✱	8082A	Total/NA
Aroclor-1254	2400		290	120	ug/Kg	5	✱	8082A	Total/NA
Arsenic	9.5		1.4	0.29	mg/Kg	1	✱	6010D	Total/NA
Barium	160		18	0.33	mg/Kg	1	✱	6010D	Total/NA
Cadmium	6.6		0.46	0.044	mg/Kg	1	✱	6010D	Total/NA
Chromium	61		0.92	0.32	mg/Kg	1	✱	6010D	Total/NA
Lead	460		0.92	0.26	mg/Kg	1	✱	6010D	Total/NA
Silver	0.86	J	0.92	0.075	mg/Kg	1	✱	6010D	Total/NA
Mercury	5.2		1.0	0.18	mg/Kg	10	✱	7471B	Total/NA

Client Sample ID: CM-FL-D3-E/W-625-221107

Lab Sample ID: 240-175992-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	190		55	21	ug/Kg	1	✱	8082A	Total/NA
Aroclor-1254	330		55	23	ug/Kg	1	✱	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Client Sample ID: CM-FL-D3-E/W-625-221107 (Continued)

Lab Sample ID: 240-175992-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.0		1.7	0.36	mg/Kg	1	✱	6010D	Total/NA
Barium	140	F1	23	0.41	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.58		0.57	0.055	mg/Kg	1	✱	6010D	Total/NA
Chromium	20		1.1	0.39	mg/Kg	1	✱	6010D	Total/NA
Lead	240	F1 F2	1.1	0.32	mg/Kg	1	✱	6010D	Total/NA
Selenium	0.55	J	2.3	0.53	mg/Kg	1	✱	6010D	Total/NA
Silver	0.24	J	1.1	0.092	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.77		0.12	0.022	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: CM-FL-C3-N/S-625-221107

Lab Sample ID: 240-175992-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	550		58	22	ug/Kg	1	✱	8082A	Total/NA
Aroclor-1254	600		58	24	ug/Kg	1	✱	8082A	Total/NA
Arsenic	7.0		1.6	0.33	mg/Kg	1	✱	6010D	Total/NA
Barium	41		21	0.38	mg/Kg	1	✱	6010D	Total/NA
Cadmium	1.5		0.53	0.051	mg/Kg	1	✱	6010D	Total/NA
Chromium	18		1.1	0.36	mg/Kg	1	✱	6010D	Total/NA
Lead	75		1.1	0.30	mg/Kg	1	✱	6010D	Total/NA
Silver	0.18	J	1.1	0.086	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.61		0.12	0.021	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: CM-FL-C3-E/W-625-221107

Lab Sample ID: 240-175992-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	1800		300	120	ug/Kg	5	✱	8082A	Total/NA
Aroclor-1254	3200		300	130	ug/Kg	5	✱	8082A	Total/NA
Arsenic	78		1.3	0.28	mg/Kg	1	✱	6010D	Total/NA
Barium	150		18	0.32	mg/Kg	1	✱	6010D	Total/NA
Cadmium	4.5		0.89	0.086	mg/Kg	2	✱	6010D	Total/NA
Chromium	35		0.89	0.31	mg/Kg	1	✱	6010D	Total/NA
Lead	380		1.8	0.50	mg/Kg	2	✱	6010D	Total/NA
Selenium	0.53	J	1.8	0.42	mg/Kg	1	✱	6010D	Total/NA
Silver	0.62	J	0.89	0.072	mg/Kg	1	✱	6010D	Total/NA
Mercury	1.3		0.12	0.022	mg/Kg	1	✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Client Sample ID: CM-CS-A2A3A4-628-221107

Lab Sample ID: 240-175992-1

Date Collected: 11/07/22 11:00

Matrix: Solid

Date Received: 11/08/22 10:50

Percent Solids: 79.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<65		65	33	ug/Kg	☆	11/09/22 07:39	11/09/22 14:38	1
Aroclor-1221	<65		65	39	ug/Kg	☆	11/09/22 07:39	11/09/22 14:38	1
Aroclor-1232	<65		65	27	ug/Kg	☆	11/09/22 07:39	11/09/22 14:38	1
Aroclor-1242	120		65	25	ug/Kg	☆	11/09/22 07:39	11/09/22 14:38	1
Aroclor-1248	<65		65	22	ug/Kg	☆	11/09/22 07:39	11/09/22 14:38	1
Aroclor-1254	1500		65	27	ug/Kg	☆	11/09/22 07:39	11/09/22 14:38	1
Aroclor-1260	<65		65	27	ug/Kg	☆	11/09/22 07:39	11/09/22 14:38	1
Aroclor-1262	<65		65	29	ug/Kg	☆	11/09/22 07:39	11/09/22 14:38	1
Aroclor-1268	<65		65	21	ug/Kg	☆	11/09/22 07:39	11/09/22 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		10 - 149				11/09/22 07:39	11/09/22 14:38	1
DCB Decachlorobiphenyl	74	p	10 - 174				11/09/22 07:39	11/09/22 14:38	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3		1.5	0.32	mg/Kg	☆	11/08/22 15:00	11/09/22 12:45	1
Barium	110		20	0.37	mg/Kg	☆	11/08/22 15:00	11/09/22 12:45	1
Cadmium	3.9		0.51	0.049	mg/Kg	☆	11/08/22 15:00	11/09/22 12:45	1
Chromium	28		1.0	0.35	mg/Kg	☆	11/08/22 15:00	11/09/22 12:45	1
Lead	270		1.0	0.29	mg/Kg	☆	11/08/22 15:00	11/09/22 12:45	1
Selenium	<2.0		2.0	0.48	mg/Kg	☆	11/08/22 15:00	11/09/22 12:45	1
Silver	0.61	J	1.0	0.083	mg/Kg	☆	11/08/22 15:00	11/09/22 12:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.9		0.65	0.12	mg/Kg	☆	11/08/22 15:00	11/10/22 11:46	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	79.2		0.1	0.1	%			11/09/22 10:59	1
Percent Moisture (EPA Moisture)	20.8		0.1	0.1	%			11/09/22 10:59	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Client Sample ID: CM-FL-E3-N/S-625-221107

Lab Sample ID: 240-175992-2

Date Collected: 11/07/22 13:22

Matrix: Solid

Date Received: 11/08/22 10:50

Percent Solids: 93.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<54		54	27	ug/Kg	☆	11/09/22 07:39	11/09/22 14:55	1
Aroclor-1221	<54		54	32	ug/Kg	☆	11/09/22 07:39	11/09/22 14:55	1
Aroclor-1232	<54		54	23	ug/Kg	☆	11/09/22 07:39	11/09/22 14:55	1
Aroclor-1242	23	J	54	20	ug/Kg	☆	11/09/22 07:39	11/09/22 14:55	1
Aroclor-1248	<54		54	18	ug/Kg	☆	11/09/22 07:39	11/09/22 14:55	1
Aroclor-1254	54		54	23	ug/Kg	☆	11/09/22 07:39	11/09/22 14:55	1
Aroclor-1260	<54		54	23	ug/Kg	☆	11/09/22 07:39	11/09/22 14:55	1
Aroclor-1262	<54		54	24	ug/Kg	☆	11/09/22 07:39	11/09/22 14:55	1
Aroclor-1268	<54		54	17	ug/Kg	☆	11/09/22 07:39	11/09/22 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	65		10 - 149				11/09/22 07:39	11/09/22 14:55	1
DCB Decachlorobiphenyl	57		10 - 174				11/09/22 07:39	11/09/22 14:55	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5		1.3	0.27	mg/Kg	☆	11/08/22 15:00	11/09/22 12:49	1
Barium	15	J	17	0.31	mg/Kg	☆	11/08/22 15:00	11/09/22 12:49	1
Cadmium	0.23	J	0.43	0.041	mg/Kg	☆	11/08/22 15:00	11/09/22 12:49	1
Chromium	8.6		0.85	0.29	mg/Kg	☆	11/08/22 15:00	11/09/22 12:49	1
Lead	15		0.85	0.24	mg/Kg	☆	11/08/22 15:00	11/09/22 12:49	1
Selenium	<1.7		1.7	0.40	mg/Kg	☆	11/08/22 15:00	11/09/22 12:49	1
Silver	0.11	J	0.85	0.069	mg/Kg	☆	11/08/22 15:00	11/09/22 12:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074	J	0.10	0.019	mg/Kg	☆	11/08/22 15:00	11/09/22 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	93.2		0.1	0.1	%			11/09/22 10:59	1
Percent Moisture (EPA Moisture)	6.8		0.1	0.1	%			11/09/22 10:59	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Client Sample ID: CM-FL-DUP01-221107

Lab Sample ID: 240-175992-3

Date Collected: 11/07/22 13:24

Matrix: Solid

Date Received: 11/08/22 10:50

Percent Solids: 93.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<56		56	28	ug/Kg	☆	11/09/22 07:39	11/09/22 15:12	1
Aroclor-1221	<56		56	34	ug/Kg	☆	11/09/22 07:39	11/09/22 15:12	1
Aroclor-1232	<56		56	24	ug/Kg	☆	11/09/22 07:39	11/09/22 15:12	1
Aroclor-1242	64		56	21	ug/Kg	☆	11/09/22 07:39	11/09/22 15:12	1
Aroclor-1248	<56		56	19	ug/Kg	☆	11/09/22 07:39	11/09/22 15:12	1
Aroclor-1254	140		56	24	ug/Kg	☆	11/09/22 07:39	11/09/22 15:12	1
Aroclor-1260	<56		56	24	ug/Kg	☆	11/09/22 07:39	11/09/22 15:12	1
Aroclor-1262	<56		56	25	ug/Kg	☆	11/09/22 07:39	11/09/22 15:12	1
Aroclor-1268	<56		56	18	ug/Kg	☆	11/09/22 07:39	11/09/22 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		10 - 149				11/09/22 07:39	11/09/22 15:12	1
DCB Decachlorobiphenyl	59		10 - 174				11/09/22 07:39	11/09/22 15:12	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		1.5	0.33	mg/Kg	☆	11/08/22 15:00	11/09/22 12:53	1
Barium	15	J	21	0.37	mg/Kg	☆	11/08/22 15:00	11/09/22 12:53	1
Cadmium	0.21	J	0.52	0.049	mg/Kg	☆	11/08/22 15:00	11/09/22 12:53	1
Chromium	5.7		1.0	0.35	mg/Kg	☆	11/08/22 15:00	11/09/22 12:53	1
Lead	11		1.0	0.29	mg/Kg	☆	11/08/22 15:00	11/09/22 12:53	1
Selenium	<2.1		2.1	0.48	mg/Kg	☆	11/08/22 15:00	11/09/22 12:53	1
Silver	<1.0		1.0	0.083	mg/Kg	☆	11/08/22 15:00	11/09/22 12:53	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035	J	0.12	0.021	mg/Kg	☆	11/08/22 15:00	11/09/22 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	93.3		0.1	0.1	%			11/09/22 10:59	1
Percent Moisture (EPA Moisture)	6.7		0.1	0.1	%			11/09/22 10:59	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Client Sample ID: CM-FL-E3-E/W-625-221107

Lab Sample ID: 240-175992-4

Date Collected: 11/07/22 13:26

Matrix: Solid

Date Received: 11/08/22 10:50

Percent Solids: 87.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<290		290	140	ug/Kg	☆	11/09/22 07:39	11/09/22 15:28	5
Aroclor-1221	<290		290	170	ug/Kg	☆	11/09/22 07:39	11/09/22 15:28	5
Aroclor-1232	<290		290	120	ug/Kg	☆	11/09/22 07:39	11/09/22 15:28	5
Aroclor-1242	1200		290	110	ug/Kg	☆	11/09/22 07:39	11/09/22 15:28	5
Aroclor-1248	<290		290	97	ug/Kg	☆	11/09/22 07:39	11/09/22 15:28	5
Aroclor-1254	2400		290	120	ug/Kg	☆	11/09/22 07:39	11/09/22 15:28	5
Aroclor-1260	<290		290	120	ug/Kg	☆	11/09/22 07:39	11/09/22 15:28	5
Aroclor-1262	<290		290	130	ug/Kg	☆	11/09/22 07:39	11/09/22 15:28	5
Aroclor-1268	<290		290	91	ug/Kg	☆	11/09/22 07:39	11/09/22 15:28	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		10 - 149				11/09/22 07:39	11/09/22 15:28	5
DCB Decachlorobiphenyl	75	p	10 - 174				11/09/22 07:39	11/09/22 15:28	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.5		1.4	0.29	mg/Kg	☆	11/08/22 15:00	11/09/22 12:58	1
Barium	160		18	0.33	mg/Kg	☆	11/08/22 15:00	11/09/22 12:58	1
Cadmium	6.6		0.46	0.044	mg/Kg	☆	11/08/22 15:00	11/09/22 12:58	1
Chromium	61		0.92	0.32	mg/Kg	☆	11/08/22 15:00	11/09/22 12:58	1
Lead	460		0.92	0.26	mg/Kg	☆	11/08/22 15:00	11/09/22 12:58	1
Selenium	<1.8		1.8	0.43	mg/Kg	☆	11/08/22 15:00	11/09/22 12:58	1
Silver	0.86	J	0.92	0.075	mg/Kg	☆	11/08/22 15:00	11/09/22 12:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.2		1.0	0.18	mg/Kg	☆	11/08/22 15:00	11/10/22 11:49	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	87.3		0.1	0.1	%			11/09/22 10:59	1
Percent Moisture (EPA Moisture)	12.7		0.1	0.1	%			11/09/22 10:59	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Client Sample ID: CM-FL-D3-E/W-625-221107

Lab Sample ID: 240-175992-5

Date Collected: 11/07/22 13:41

Matrix: Solid

Date Received: 11/08/22 10:50

Percent Solids: 87.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<55		55	27	ug/Kg	☆	11/09/22 07:39	11/09/22 15:45	1
Aroclor-1221	<55		55	33	ug/Kg	☆	11/09/22 07:39	11/09/22 15:45	1
Aroclor-1232	<55		55	23	ug/Kg	☆	11/09/22 07:39	11/09/22 15:45	1
Aroclor-1242	190		55	21	ug/Kg	☆	11/09/22 07:39	11/09/22 15:45	1
Aroclor-1248	<55		55	19	ug/Kg	☆	11/09/22 07:39	11/09/22 15:45	1
Aroclor-1254	330		55	23	ug/Kg	☆	11/09/22 07:39	11/09/22 15:45	1
Aroclor-1260	<55		55	23	ug/Kg	☆	11/09/22 07:39	11/09/22 15:45	1
Aroclor-1262	<55		55	24	ug/Kg	☆	11/09/22 07:39	11/09/22 15:45	1
Aroclor-1268	<55		55	18	ug/Kg	☆	11/09/22 07:39	11/09/22 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	92		10 - 149				11/09/22 07:39	11/09/22 15:45	1
DCB Decachlorobiphenyl	95		10 - 174				11/09/22 07:39	11/09/22 15:45	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		1.7	0.36	mg/Kg	☆	11/08/22 15:00	11/09/22 11:58	1
Barium	140	F1	23	0.41	mg/Kg	☆	11/08/22 15:00	11/09/22 11:58	1
Cadmium	0.58		0.57	0.055	mg/Kg	☆	11/08/22 15:00	11/09/22 11:58	1
Chromium	20		1.1	0.39	mg/Kg	☆	11/08/22 15:00	11/09/22 11:58	1
Lead	240	F1 F2	1.1	0.32	mg/Kg	☆	11/08/22 15:00	11/09/22 11:58	1
Selenium	0.55	J	2.3	0.53	mg/Kg	☆	11/08/22 15:00	11/09/22 11:58	1
Silver	0.24	J	1.1	0.092	mg/Kg	☆	11/08/22 15:00	11/09/22 11:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.77		0.12	0.022	mg/Kg	☆	11/08/22 15:00	11/09/22 14:17	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	87.1		0.1	0.1	%			11/09/22 10:59	1
Percent Moisture (EPA Moisture)	12.9		0.1	0.1	%			11/09/22 10:59	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Client Sample ID: CM-FL-C3-N/S-625-221107

Lab Sample ID: 240-175992-6

Date Collected: 11/07/22 13:50

Matrix: Solid

Date Received: 11/08/22 10:50

Percent Solids: 90.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<58		58	29	ug/Kg	☆	11/09/22 07:39	11/09/22 16:36	1
Aroclor-1221	<58		58	35	ug/Kg	☆	11/09/22 07:39	11/09/22 16:36	1
Aroclor-1232	<58		58	24	ug/Kg	☆	11/09/22 07:39	11/09/22 16:36	1
Aroclor-1242	550		58	22	ug/Kg	☆	11/09/22 07:39	11/09/22 16:36	1
Aroclor-1248	<58		58	20	ug/Kg	☆	11/09/22 07:39	11/09/22 16:36	1
Aroclor-1254	600		58	24	ug/Kg	☆	11/09/22 07:39	11/09/22 16:36	1
Aroclor-1260	<58		58	24	ug/Kg	☆	11/09/22 07:39	11/09/22 16:36	1
Aroclor-1262	<58		58	26	ug/Kg	☆	11/09/22 07:39	11/09/22 16:36	1
Aroclor-1268	<58		58	19	ug/Kg	☆	11/09/22 07:39	11/09/22 16:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		10 - 149				11/09/22 07:39	11/09/22 16:36	1
DCB Decachlorobiphenyl	67		10 - 174				11/09/22 07:39	11/09/22 16:36	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		1.6	0.33	mg/Kg	☆	11/08/22 15:00	11/09/22 13:02	1
Barium	41		21	0.38	mg/Kg	☆	11/08/22 15:00	11/09/22 13:02	1
Cadmium	1.5		0.53	0.051	mg/Kg	☆	11/08/22 15:00	11/09/22 13:02	1
Chromium	18		1.1	0.36	mg/Kg	☆	11/08/22 15:00	11/09/22 13:02	1
Lead	75		1.1	0.30	mg/Kg	☆	11/08/22 15:00	11/09/22 13:02	1
Selenium	<2.1		2.1	0.50	mg/Kg	☆	11/08/22 15:00	11/09/22 13:02	1
Silver	0.18	J	1.1	0.086	mg/Kg	☆	11/08/22 15:00	11/09/22 13:02	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.61		0.12	0.021	mg/Kg	☆	11/08/22 15:00	11/09/22 14:47	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	90.1		0.1	0.1	%			11/09/22 10:59	1
Percent Moisture (EPA Moisture)	9.9		0.1	0.1	%			11/09/22 10:59	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Client Sample ID: CM-FL-C3-E/W-625-221107

Lab Sample ID: 240-175992-7

Date Collected: 11/07/22 13:55

Matrix: Solid

Date Received: 11/08/22 10:50

Percent Solids: 83.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<300		300	150	ug/Kg	☆	11/09/22 07:39	11/09/22 16:53	5
Aroclor-1221	<300		300	180	ug/Kg	☆	11/09/22 07:39	11/09/22 16:53	5
Aroclor-1232	<300		300	130	ug/Kg	☆	11/09/22 07:39	11/09/22 16:53	5
Aroclor-1242	1800		300	120	ug/Kg	☆	11/09/22 07:39	11/09/22 16:53	5
Aroclor-1248	<300		300	100	ug/Kg	☆	11/09/22 07:39	11/09/22 16:53	5
Aroclor-1254	3200		300	130	ug/Kg	☆	11/09/22 07:39	11/09/22 16:53	5
Aroclor-1260	<300		300	130	ug/Kg	☆	11/09/22 07:39	11/09/22 16:53	5
Aroclor-1262	<300		300	130	ug/Kg	☆	11/09/22 07:39	11/09/22 16:53	5
Aroclor-1268	<300		300	97	ug/Kg	☆	11/09/22 07:39	11/09/22 16:53	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		10 - 149				11/09/22 07:39	11/09/22 16:53	5
DCB Decachlorobiphenyl	78		10 - 174				11/09/22 07:39	11/09/22 16:53	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	78		1.3	0.28	mg/Kg	☆	11/08/22 15:00	11/09/22 13:06	1
Barium	150		18	0.32	mg/Kg	☆	11/08/22 15:00	11/09/22 13:06	1
Cadmium	4.5		0.89	0.086	mg/Kg	☆	11/08/22 15:00	11/09/22 17:43	2
Chromium	35		0.89	0.31	mg/Kg	☆	11/08/22 15:00	11/09/22 13:06	1
Lead	380		1.8	0.50	mg/Kg	☆	11/08/22 15:00	11/09/22 17:43	2
Selenium	0.53	J	1.8	0.42	mg/Kg	☆	11/08/22 15:00	11/09/22 13:06	1
Silver	0.62	J	0.89	0.072	mg/Kg	☆	11/08/22 15:00	11/09/22 13:06	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.3		0.12	0.022	mg/Kg	☆	11/08/22 15:00	11/09/22 14:52	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (EPA Moisture)	83.6		0.1	0.1	%			11/09/22 10:59	1
Percent Moisture (EPA Moisture)	16.4		0.1	0.1	%			11/09/22 10:59	1

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCBP1
		(10-149)	(10-174)
240-175992-1	CM-CS-A2A3A4-628-221107	84	74 p
240-175992-2	CM-FL-E3-N/S-625-221107	65	57
240-175992-3	CM-FL-DUP01-221107	69	59
240-175992-4	CM-FL-E3-E/W-625-221107	82	75 p
240-175992-5	CM-FL-D3-E/W-625-221107	92	95
240-175992-5 MS	CM-FL-D3-E/W-625-221107	78	66
240-175992-5 MSD	CM-FL-D3-E/W-625-221107	81	72
240-175992-6	CM-FL-C3-N/S-625-221107	74	67
240-175992-7	CM-FL-C3-E/W-625-221107	80	78
LCS 240-551084/2-A	Lab Control Sample	108	98
MB 240-551084/1-A	Method Blank	111	118

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-551084/1-A

Matrix: Solid

Analysis Batch: 551057

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 551084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<50		50	25	ug/Kg		11/09/22 07:39	11/09/22 14:04	1
Aroclor-1221	<50		50	30	ug/Kg		11/09/22 07:39	11/09/22 14:04	1
Aroclor-1232	<50		50	21	ug/Kg		11/09/22 07:39	11/09/22 14:04	1
Aroclor-1242	<50		50	19	ug/Kg		11/09/22 07:39	11/09/22 14:04	1
Aroclor-1248	<50		50	17	ug/Kg		11/09/22 07:39	11/09/22 14:04	1
Aroclor-1254	<50		50	21	ug/Kg		11/09/22 07:39	11/09/22 14:04	1
Aroclor-1260	<50		50	21	ug/Kg		11/09/22 07:39	11/09/22 14:04	1
Aroclor-1262	<50		50	22	ug/Kg		11/09/22 07:39	11/09/22 14:04	1
Aroclor-1268	<50		50	16	ug/Kg		11/09/22 07:39	11/09/22 14:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	111		10 - 149	11/09/22 07:39	11/09/22 14:04	1
DCB Decachlorobiphenyl	118		10 - 174	11/09/22 07:39	11/09/22 14:04	1

Lab Sample ID: LCS 240-551084/2-A

Matrix: Solid

Analysis Batch: 551057

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 551084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	1000	867		ug/Kg		87	28 - 140
Aroclor-1260	1000	882		ug/Kg		88	39 - 153

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	108		10 - 149
DCB Decachlorobiphenyl	98		10 - 174

Lab Sample ID: 240-175992-5 MS

Matrix: Solid

Analysis Batch: 551057

Client Sample ID: CM-FL-D3-E/W-625-221107

Prep Type: Total/NA

Prep Batch: 551084

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	<55		1110	733		ug/Kg	⊛	66	10 - 146
Aroclor-1260	<55		1110	766		ug/Kg	⊛	69	10 - 158

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	78		10 - 149
DCB Decachlorobiphenyl	66		10 - 174

Lab Sample ID: 240-175992-5 MSD

Matrix: Solid

Analysis Batch: 551057

Client Sample ID: CM-FL-D3-E/W-625-221107

Prep Type: Total/NA

Prep Batch: 551084

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	<55		1140	758		ug/Kg	⊛	66	10 - 146	3	40
Aroclor-1260	<55		1140	794		ug/Kg	⊛	69	10 - 158	4	40

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 240-175992-5 MSD

Matrix: Solid

Analysis Batch: 551057

Client Sample ID: CM-FL-D3-E/W-625-221107

Prep Type: Total/NA

Prep Batch: 551084

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	81		10 - 149
DCB Decachlorobiphenyl	72		10 - 174

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-551008/1-A

Matrix: Solid

Analysis Batch: 551166

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 551008

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.5		1.5	0.32	mg/Kg		11/08/22 15:00	11/09/22 11:50	1
Barium	<20		20	0.36	mg/Kg		11/08/22 15:00	11/09/22 11:50	1
Cadmium	<0.50		0.50	0.048	mg/Kg		11/08/22 15:00	11/09/22 11:50	1
Chromium	<1.0		1.0	0.34	mg/Kg		11/08/22 15:00	11/09/22 11:50	1
Lead	<1.0		1.0	0.28	mg/Kg		11/08/22 15:00	11/09/22 11:50	1
Selenium	<2.0		2.0	0.47	mg/Kg		11/08/22 15:00	11/09/22 11:50	1
Silver	<1.0		1.0	0.081	mg/Kg		11/08/22 15:00	11/09/22 11:50	1

Lab Sample ID: LCS 240-551008/2-A

Matrix: Solid

Analysis Batch: 551166

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 551008

Analyte	Spike	LCS	LCS					%Rec	
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Arsenic	200	186		mg/Kg		93	80 - 120		
Barium	200	178		mg/Kg		89	80 - 120		
Cadmium	100	95.6		mg/Kg		96	80 - 120		
Chromium	100	92.4		mg/Kg		92	80 - 120		
Lead	100	89.7		mg/Kg		90	80 - 120		
Selenium	200	183		mg/Kg		92	80 - 120		
Silver	10.0	9.70		mg/Kg		97	80 - 120		

Lab Sample ID: 240-175992-5 MS

Matrix: Solid

Analysis Batch: 551166

Client Sample ID: CM-FL-D3-E/W-625-221107

Prep Type: Total/NA

Prep Batch: 551008

Analyte	Sample	Sample	Spike	MS	MS			%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	6.0		217	192		mg/Kg	✱	86	75 - 125
Barium	140	F1	217	280	F1	mg/Kg	✱	64	75 - 125
Cadmium	0.58		108	98.3		mg/Kg	✱	90	75 - 125
Chromium	20		108	102		mg/Kg	✱	76	75 - 125
Lead	240	F1 F2	108	251	F1	mg/Kg	✱	13	75 - 125
Selenium	0.55	J	217	182		mg/Kg	✱	84	75 - 125
Silver	0.24	J	10.8	10.5		mg/Kg	✱	94	75 - 125

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 240-175992-5 MSD

Matrix: Solid

Analysis Batch: 551166

Client Sample ID: CM-FL-D3-E/W-625-221107

Prep Type: Total/NA

Prep Batch: 551008

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	6.0		217	189		mg/Kg	✱	84	75 - 125	2	20
Barium	140	F1	217	321		mg/Kg	✱	83	75 - 125	14	20
Cadmium	0.58		108	95.8		mg/Kg	✱	88	75 - 125	3	20
Chromium	20		108	103		mg/Kg	✱	77	75 - 125	1	20
Lead	240	F1 F2	108	322	F2	mg/Kg	✱	79	75 - 125	25	20
Selenium	0.55	J	217	179		mg/Kg	✱	83	75 - 125	2	20
Silver	0.24	J	10.8	10.3		mg/Kg	✱	93	75 - 125	2	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 240-551013/1-A

Matrix: Solid

Analysis Batch: 551208

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 551013

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.10		0.10	0.018	mg/Kg		11/08/22 15:00	11/09/22 14:13	1

Lab Sample ID: LCS 240-551013/2-A

Matrix: Solid

Analysis Batch: 551208

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 551013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.833	0.827		mg/Kg		99	80 - 120

Lab Sample ID: 240-175992-5 MS

Matrix: Solid

Analysis Batch: 551208

Client Sample ID: CM-FL-D3-E/W-625-221107

Prep Type: Total/NA

Prep Batch: 551013

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.77		0.191	0.715	4	mg/Kg	✱	-30	80 - 120

Lab Sample ID: 240-175992-5 MSD

Matrix: Solid

Analysis Batch: 551208

Client Sample ID: CM-FL-D3-E/W-625-221107

Prep Type: Total/NA

Prep Batch: 551013

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.77		0.191	0.658	4	mg/Kg	✱	-60	80 - 120	8	20

Method: Moisture - Percent Moisture

Lab Sample ID: 240-175992-2 DU

Matrix: Solid

Analysis Batch: 551157

Client Sample ID: CM-FL-E3-N/S-625-221107

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	93.2		90.0		%		3	20
Percent Moisture	6.8		10	F3	%		38	20

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 240-175992-5 DU

Matrix: Solid

Analysis Batch: 551157

Client Sample ID: CM-FL-D3-E/W-625-221107

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	87.1		83.5		%		4	20
Percent Moisture	12.9		16.5	F3	%		24	20

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

GC Semi VOA

Analysis Batch: 551057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175992-1	CM-CS-A2A3A4-628-221107	Total/NA	Solid	8082A	551084
240-175992-2	CM-FL-E3-N/S-625-221107	Total/NA	Solid	8082A	551084
240-175992-3	CM-FL-DUP01-221107	Total/NA	Solid	8082A	551084
240-175992-4	CM-FL-E3-E/W-625-221107	Total/NA	Solid	8082A	551084
240-175992-5	CM-FL-D3-E/W-625-221107	Total/NA	Solid	8082A	551084
240-175992-6	CM-FL-C3-N/S-625-221107	Total/NA	Solid	8082A	551084
240-175992-7	CM-FL-C3-E/W-625-221107	Total/NA	Solid	8082A	551084
MB 240-551084/1-A	Method Blank	Total/NA	Solid	8082A	551084
LCS 240-551084/2-A	Lab Control Sample	Total/NA	Solid	8082A	551084
240-175992-5 MS	CM-FL-D3-E/W-625-221107	Total/NA	Solid	8082A	551084
240-175992-5 MSD	CM-FL-D3-E/W-625-221107	Total/NA	Solid	8082A	551084

Prep Batch: 551084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175992-1	CM-CS-A2A3A4-628-221107	Total/NA	Solid	3546	
240-175992-2	CM-FL-E3-N/S-625-221107	Total/NA	Solid	3546	
240-175992-3	CM-FL-DUP01-221107	Total/NA	Solid	3546	
240-175992-4	CM-FL-E3-E/W-625-221107	Total/NA	Solid	3546	
240-175992-5	CM-FL-D3-E/W-625-221107	Total/NA	Solid	3546	
240-175992-6	CM-FL-C3-N/S-625-221107	Total/NA	Solid	3546	
240-175992-7	CM-FL-C3-E/W-625-221107	Total/NA	Solid	3546	
MB 240-551084/1-A	Method Blank	Total/NA	Solid	3546	
LCS 240-551084/2-A	Lab Control Sample	Total/NA	Solid	3546	
240-175992-5 MS	CM-FL-D3-E/W-625-221107	Total/NA	Solid	3546	
240-175992-5 MSD	CM-FL-D3-E/W-625-221107	Total/NA	Solid	3546	

Metals

Prep Batch: 551008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175992-1	CM-CS-A2A3A4-628-221107	Total/NA	Solid	3050B	
240-175992-2	CM-FL-E3-N/S-625-221107	Total/NA	Solid	3050B	
240-175992-3	CM-FL-DUP01-221107	Total/NA	Solid	3050B	
240-175992-4	CM-FL-E3-E/W-625-221107	Total/NA	Solid	3050B	
240-175992-5	CM-FL-D3-E/W-625-221107	Total/NA	Solid	3050B	
240-175992-6	CM-FL-C3-N/S-625-221107	Total/NA	Solid	3050B	
240-175992-7	CM-FL-C3-E/W-625-221107	Total/NA	Solid	3050B	
MB 240-551008/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 240-551008/2-A	Lab Control Sample	Total/NA	Solid	3050B	
240-175992-5 MS	CM-FL-D3-E/W-625-221107	Total/NA	Solid	3050B	
240-175992-5 MSD	CM-FL-D3-E/W-625-221107	Total/NA	Solid	3050B	

Prep Batch: 551013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175992-1	CM-CS-A2A3A4-628-221107	Total/NA	Solid	7471B	
240-175992-2	CM-FL-E3-N/S-625-221107	Total/NA	Solid	7471B	
240-175992-3	CM-FL-DUP01-221107	Total/NA	Solid	7471B	
240-175992-4	CM-FL-E3-E/W-625-221107	Total/NA	Solid	7471B	
240-175992-5	CM-FL-D3-E/W-625-221107	Total/NA	Solid	7471B	
240-175992-6	CM-FL-C3-N/S-625-221107	Total/NA	Solid	7471B	
240-175992-7	CM-FL-C3-E/W-625-221107	Total/NA	Solid	7471B	

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QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Metals (Continued)

Prep Batch: 551013 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-551013/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 240-551013/2-A	Lab Control Sample	Total/NA	Solid	7471B	
240-175992-5 MS	CM-FL-D3-E/W-625-221107	Total/NA	Solid	7471B	
240-175992-5 MSD	CM-FL-D3-E/W-625-221107	Total/NA	Solid	7471B	

Analysis Batch: 551166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175992-1	CM-CS-A2A3A4-628-221107	Total/NA	Solid	6010D	551008
240-175992-2	CM-FL-E3-N/S-625-221107	Total/NA	Solid	6010D	551008
240-175992-3	CM-FL-DUP01-221107	Total/NA	Solid	6010D	551008
240-175992-4	CM-FL-E3-E/W-625-221107	Total/NA	Solid	6010D	551008
240-175992-5	CM-FL-D3-E/W-625-221107	Total/NA	Solid	6010D	551008
240-175992-6	CM-FL-C3-N/S-625-221107	Total/NA	Solid	6010D	551008
240-175992-7	CM-FL-C3-E/W-625-221107	Total/NA	Solid	6010D	551008
240-175992-7	CM-FL-C3-E/W-625-221107	Total/NA	Solid	6010D	551008
MB 240-551008/1-A	Method Blank	Total/NA	Solid	6010D	551008
LCS 240-551008/2-A	Lab Control Sample	Total/NA	Solid	6010D	551008
240-175992-5 MS	CM-FL-D3-E/W-625-221107	Total/NA	Solid	6010D	551008
240-175992-5 MSD	CM-FL-D3-E/W-625-221107	Total/NA	Solid	6010D	551008

Analysis Batch: 551208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175992-2	CM-FL-E3-N/S-625-221107	Total/NA	Solid	7471B	551013
240-175992-3	CM-FL-DUP01-221107	Total/NA	Solid	7471B	551013
240-175992-5	CM-FL-D3-E/W-625-221107	Total/NA	Solid	7471B	551013
240-175992-6	CM-FL-C3-N/S-625-221107	Total/NA	Solid	7471B	551013
240-175992-7	CM-FL-C3-E/W-625-221107	Total/NA	Solid	7471B	551013
MB 240-551013/1-A	Method Blank	Total/NA	Solid	7471B	551013
LCS 240-551013/2-A	Lab Control Sample	Total/NA	Solid	7471B	551013
240-175992-5 MS	CM-FL-D3-E/W-625-221107	Total/NA	Solid	7471B	551013
240-175992-5 MSD	CM-FL-D3-E/W-625-221107	Total/NA	Solid	7471B	551013

Analysis Batch: 551418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175992-1	CM-CS-A2A3A4-628-221107	Total/NA	Solid	7471B	551013
240-175992-4	CM-FL-E3-E/W-625-221107	Total/NA	Solid	7471B	551013

General Chemistry

Analysis Batch: 551157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175992-1	CM-CS-A2A3A4-628-221107	Total/NA	Solid	Moisture	
240-175992-2	CM-FL-E3-N/S-625-221107	Total/NA	Solid	Moisture	
240-175992-3	CM-FL-DUP01-221107	Total/NA	Solid	Moisture	
240-175992-4	CM-FL-E3-E/W-625-221107	Total/NA	Solid	Moisture	
240-175992-5	CM-FL-D3-E/W-625-221107	Total/NA	Solid	Moisture	
240-175992-6	CM-FL-C3-N/S-625-221107	Total/NA	Solid	Moisture	
240-175992-7	CM-FL-C3-E/W-625-221107	Total/NA	Solid	Moisture	
240-175992-2 DU	CM-FL-E3-N/S-625-221107	Total/NA	Solid	Moisture	
240-175992-5 DU	CM-FL-D3-E/W-625-221107	Total/NA	Solid	Moisture	

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Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Client Sample ID: CM-CS-A2A3A4-628-221107

Lab Sample ID: 240-175992-1

Date Collected: 11/07/22 11:00

Matrix: Solid

Date Received: 11/08/22 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	551157	MED	EET CAN	11/09/22 10:59

Client Sample ID: CM-CS-A2A3A4-628-221107

Lab Sample ID: 240-175992-1

Date Collected: 11/07/22 11:00

Matrix: Solid

Date Received: 11/08/22 10:50

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			551084	AJ	EET CAN	11/09/22 07:39
Total/NA	Analysis	8082A		1	551057	LSH	EET CAN	11/09/22 14:38
Total/NA	Prep	3050B			551008	DEE	EET CAN	11/08/22 15:00
Total/NA	Analysis	6010D		1	551166	RKT	EET CAN	11/09/22 12:45
Total/NA	Prep	7471B			551013	DEE	EET CAN	11/08/22 15:00
Total/NA	Analysis	7471B		5	551418	DSH	EET CAN	11/10/22 11:46

Client Sample ID: CM-FL-E3-N/S-625-221107

Lab Sample ID: 240-175992-2

Date Collected: 11/07/22 13:22

Matrix: Solid

Date Received: 11/08/22 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	551157	MED	EET CAN	11/09/22 10:59

Client Sample ID: CM-FL-E3-N/S-625-221107

Lab Sample ID: 240-175992-2

Date Collected: 11/07/22 13:22

Matrix: Solid

Date Received: 11/08/22 10:50

Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			551084	AJ	EET CAN	11/09/22 07:39
Total/NA	Analysis	8082A		1	551057	LSH	EET CAN	11/09/22 14:55
Total/NA	Prep	3050B			551008	DEE	EET CAN	11/08/22 15:00
Total/NA	Analysis	6010D		1	551166	RKT	EET CAN	11/09/22 12:49
Total/NA	Prep	7471B			551013	DEE	EET CAN	11/08/22 15:00
Total/NA	Analysis	7471B		1	551208	MRL	EET CAN	11/09/22 14:40

Client Sample ID: CM-FL-DUP01-221107

Lab Sample ID: 240-175992-3

Date Collected: 11/07/22 13:24

Matrix: Solid

Date Received: 11/08/22 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	551157	MED	EET CAN	11/09/22 10:59

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Client Sample ID: CM-FL-DUP01-221107

Lab Sample ID: 240-175992-3

Date Collected: 11/07/22 13:24

Matrix: Solid

Date Received: 11/08/22 10:50

Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			551084	AJ	EET CAN	11/09/22 07:39
Total/NA	Analysis	8082A		1	551057	LSH	EET CAN	11/09/22 15:12
Total/NA	Prep	3050B			551008	DEE	EET CAN	11/08/22 15:00
Total/NA	Analysis	6010D		1	551166	RKT	EET CAN	11/09/22 12:53
Total/NA	Prep	7471B			551013	DEE	EET CAN	11/08/22 15:00
Total/NA	Analysis	7471B		1	551208	MRL	EET CAN	11/09/22 14:42

Client Sample ID: CM-FL-E3-E/W-625-221107

Lab Sample ID: 240-175992-4

Date Collected: 11/07/22 13:26

Matrix: Solid

Date Received: 11/08/22 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	551157	MED	EET CAN	11/09/22 10:59

Client Sample ID: CM-FL-E3-E/W-625-221107

Lab Sample ID: 240-175992-4

Date Collected: 11/07/22 13:26

Matrix: Solid

Date Received: 11/08/22 10:50

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			551084	AJ	EET CAN	11/09/22 07:39
Total/NA	Analysis	8082A		5	551057	LSH	EET CAN	11/09/22 15:28
Total/NA	Prep	3050B			551008	DEE	EET CAN	11/08/22 15:00
Total/NA	Analysis	6010D		1	551166	RKT	EET CAN	11/09/22 12:58
Total/NA	Prep	7471B			551013	DEE	EET CAN	11/08/22 15:00
Total/NA	Analysis	7471B		10	551418	DSH	EET CAN	11/10/22 11:49

Client Sample ID: CM-FL-D3-E/W-625-221107

Lab Sample ID: 240-175992-5

Date Collected: 11/07/22 13:41

Matrix: Solid

Date Received: 11/08/22 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	551157	MED	EET CAN	11/09/22 10:59

Client Sample ID: CM-FL-D3-E/W-625-221107

Lab Sample ID: 240-175992-5

Date Collected: 11/07/22 13:41

Matrix: Solid

Date Received: 11/08/22 10:50

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			551084	AJ	EET CAN	11/09/22 07:39
Total/NA	Analysis	8082A		1	551057	LSH	EET CAN	11/09/22 15:45
Total/NA	Prep	3050B			551008	DEE	EET CAN	11/08/22 15:00
Total/NA	Analysis	6010D		1	551166	RKT	EET CAN	11/09/22 11:58
Total/NA	Prep	7471B			551013	DEE	EET CAN	11/08/22 15:00
Total/NA	Analysis	7471B		1	551208	MRL	EET CAN	11/09/22 14:17

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Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Client Sample ID: CM-FL-C3-N/S-625-221107

Lab Sample ID: 240-175992-6

Date Collected: 11/07/22 13:50

Matrix: Solid

Date Received: 11/08/22 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	551157	MED	EET CAN	11/09/22 10:59

Client Sample ID: CM-FL-C3-N/S-625-221107

Lab Sample ID: 240-175992-6

Date Collected: 11/07/22 13:50

Matrix: Solid

Date Received: 11/08/22 10:50

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			551084	AJ	EET CAN	11/09/22 07:39
Total/NA	Analysis	8082A		1	551057	LSH	EET CAN	11/09/22 16:36
Total/NA	Prep	3050B			551008	DEE	EET CAN	11/08/22 15:00
Total/NA	Analysis	6010D		1	551166	RKT	EET CAN	11/09/22 13:02
Total/NA	Prep	7471B			551013	DEE	EET CAN	11/08/22 15:00
Total/NA	Analysis	7471B		1	551208	MRL	EET CAN	11/09/22 14:47

Client Sample ID: CM-FL-C3-E/W-625-221107

Lab Sample ID: 240-175992-7

Date Collected: 11/07/22 13:55

Matrix: Solid

Date Received: 11/08/22 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	551157	MED	EET CAN	11/09/22 10:59

Client Sample ID: CM-FL-C3-E/W-625-221107

Lab Sample ID: 240-175992-7

Date Collected: 11/07/22 13:55

Matrix: Solid

Date Received: 11/08/22 10:50

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			551084	AJ	EET CAN	11/09/22 07:39
Total/NA	Analysis	8082A		5	551057	LSH	EET CAN	11/09/22 16:53
Total/NA	Prep	3050B			551008	DEE	EET CAN	11/08/22 15:00
Total/NA	Analysis	6010D		1	551166	RKT	EET CAN	11/09/22 13:06
Total/NA	Prep	3050B			551008	DEE	EET CAN	11/08/22 15:00
Total/NA	Analysis	6010D		2	551166	RKT	EET CAN	11/09/22 17:43
Total/NA	Prep	7471B			551013	DEE	EET CAN	11/08/22 15:00
Total/NA	Analysis	7471B		1	551208	MRL	EET CAN	11/09/22 14:52

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Eurofins Canton

Accreditation/Certification Summary

Client: Tetra Tech EM Inc.
Project/Site: Chudnow Metals

Job ID: 240-175992-1

Laboratory: Eurofins Canton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200004	07-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3546	Solid	Aroclor-1262
8082A	3546	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Minnesota	NELAP	039-999-348	12-31-22
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Client Information			Client Contact			Company: Tetra Tech EM Inc.			Address: 1 South Wacker Drive 37 Floor Ste. 3700			City: Chicago			State, Zip: IL 60606			Phone: 312-201-7721(Tel)			Email: rachel.houle@tetratech.com			Project Name: Chudnow Metals			Site:		
Sampler: Daniel Hogle			Phone: 708-455-4569			PWSID:			Due Date Requested:			TAT Requested (days): 2 Days			Compliance Project: Yes No			PO #: 1168715(ETA-76)			WO #:			Project #: 24029930			SSOW#:		
Carrier Tracking No(s): 240-99594-36245.3			State of Origin:			Analysis Requested			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Sample Date			Sample Time			Sample Type (C=comp, G=grab)			Matrix (W=water, S=solid, O=other, BT=Tissue, AA=Air)			Preservation Code:		
Carrier Tracking No(s): 240-99594-36245.3			State of Origin:			Analysis Requested			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Sample Date			Sample Time			Sample Type (C=comp, G=grab)			Matrix (W=water, S=solid, O=other, BT=Tissue, AA=Air)			Preservation Code:		
Carrier Tracking No(s): 240-99594-36245.3			State of Origin:			Analysis Requested			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Sample Date			Sample Time			Sample Type (C=comp, G=grab)			Matrix (W=water, S=solid, O=other, BT=Tissue, AA=Air)			Preservation Code:		
Carrier Tracking No(s): 240-99594-36245.3			State of Origin:			Analysis Requested			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Sample Date			Sample Time			Sample Type (C=comp, G=grab)			Matrix (W=water, S=solid, O=other, BT=Tissue, AA=Air)			Preservation Code:		
Carrier Tracking No(s): 240-99594-36245.3			State of Origin:			Analysis Requested			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Sample Date			Sample Time			Sample Type (C=comp, G=grab)			Matrix (W=water, S=solid, O=other, BT=Tissue, AA=Air)			Preservation Code:		
Carrier Tracking No(s): 240-99594-36245.3			State of Origin:			Analysis Requested			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Sample Date			Sample Time			Sample Type (C=comp, G=grab)			Matrix (W=water, S=solid, O=other, BT=Tissue, AA=Air)			Preservation Code:		
Carrier Tracking No(s): 240-99594-36245.3			State of Origin:			Analysis Requested			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Sample Date			Sample Time			Sample Type (C=comp, G=grab)			Matrix (W=water, S=solid, O=other, BT=Tissue, AA=Air)			Preservation Code:		
Carrier Tracking No(s): 240-99594-36245.3			State of Origin:			Analysis Requested			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Sample Date			Sample Time			Sample Type (C=comp, G=grab)			Matrix (W=water, S=solid, O=other, BT=Tissue, AA=Air)			Preservation Code:		
Carrier Tracking No(s): 240-99594-36245.3			State of Origin:			Analysis Requested			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Sample Date			Sample Time			Sample Type (C=comp, G=grab)			Matrix (W=water, S=solid, O=other, BT=Tissue, AA=Air)			Preservation Code:		
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Carrier Tracking No(s): 240-99594-36245.3			State of Origin:			Analysis Requested			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Sample Date			Sample Time			Sample Type (C=comp, G=grab)			Matrix (W=water, S=solid, O=other, BT=Tissue, AA=Air)			Preservation Code:		
Carrier Tracking No(s): 240-99594-36245.3			State of Origin:			Analysis Requested			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Sample Date			Sample Time			Sample Type (C=comp, G=grab)			Matrix (W=water, S=solid, O=other, BT=Tissue, AA=Air)			Preservation Code:		
Carrier Tracking No(s): 240-99594-36245.3			State of Origin:			Analysis Requested			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Sample Date			Sample Time			Sample Type (C=comp, G=grab)			Matrix (W=water, S=solid, O=other, BT=Tissue, AA=Air)			Preservation Code:		
Carrier Tracking No(s): 240-99594-36245.3			State of Origin:			Analysis Requested			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Sample Date			Sample Time			Sample Type (C=comp, G=grab)			Matrix (W=water, S=solid, O=other, BT=Tissue, AA=Air)			Preservation Code:		
Carrier Tracking No(s): 240-99594-36245.3			State of Origin:			Analysis Requested			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Sample Date			Sample Time			Sample Type (C=comp, G=grab)			Matrix (W=water, S=solid, O=other, BT=Tissue, AA=Air)			Preservation Code:		
Carrier Tracking No(s): 240-99594-36245.3			State of Origin:			Analysis Requested			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Sample Date			Sample Time											

Eurofins - Canton Sample Receipt Form/Narrative Login # : _____
Barberton Facility

Client TERRA tech em Site Name _____ Cooler unpacked by: Mandy
Cooler Received on 11-8-22 Opened on 11-8-22
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____


Eurofins Cooler # 2011 Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None _____

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
IR GUN# IR-13 (CF +0.7 °C) Observed Cooler Temp. 4.9 °C Corrected Cooler Temp. 5.6 °C
IR GUN #IR-15 (CF 0.0°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
- Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
- Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
- Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N) and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No

If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC286797
14. Were VOAs on the COC? Yes No NA
15. Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA
17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page Samples processed by: _____

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____
VOA Sample Preservation - Date/Time VOAs Frozen: _____

WT-NC-099

ATTACHMENT 7

AIR SAMPLING ANALYTICAL REPORTS – J605-1, J612-1

ANALYTICAL REPORT

Eurofins J3 Resources, Inc.
3113 Red Bluff Road
Pasadena, TX 77503
Tel: (713)290-0223

Laboratory Job ID: 740-605-1

Laboratory Sample Delivery Group: 103X903100320001DH108
Client Project/Site: Chudnow Metals

For:

Tetra Tech, Inc.
1 South Wacker Dr.
Suite 3700
Chicago, Illinois 60606

Attn: Rachel Houle

Reddy Pakanati

Authorized for release by:

10/2/2022 10:16:33 PM

Reddy Pakanati, Department Manager II
(713)290-0223

reddy.pakanati@et.eurofinsus.com

Designee for

Mariela Guerra, Project Manager
(713)290-0223

Mariela.Guerra@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-605-1
SDG: 103X903100320001DH108

Qualifiers

IH - Metals

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-605-1
SDG: 103X903100320001DH108

Client Sample ID: CM-AS-BE-2220919

Lab Sample ID: 740-605-1

☐ No Detections.

Client Sample ID: CM-AS-DW-220919

Lab Sample ID: 740-605-2

☐ No Detections.

Client Sample ID: CM-AS-UW-220919

Lab Sample ID: 740-605-3

☐ No Detections.

Client Sample ID: CM-AS-UW-220921

Lab Sample ID: 740-605-4

☐ No Detections.

Client Sample ID: CM-AS-DUP-220921

Lab Sample ID: 740-605-5

☐ No Detections.

Client Sample ID: CM-AS-DW-220921

Lab Sample ID: 740-605-6

☐ No Detections.

Client Sample ID: CM-AS-BE-220921

Lab Sample ID: 740-605-7

☐ No Detections.

Client Sample ID: CM-AS-DW-220922

Lab Sample ID: 740-605-8

☐ No Detections.

Client Sample ID: CM-AS-BE-220922

Lab Sample ID: 740-605-9

☐ No Detections.

Client Sample ID: CM-AS-UW-220922

Lab Sample ID: 740-605-10

☐ No Detections.

Client Sample ID: CM-AS-FB-220922

Lab Sample ID: 740-605-11

☐ No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins J3 Resources, Inc.

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-605-1
SDG: 103X903100320001DH108

Client Sample ID: CM-AS-BE-2220919

Lab Sample ID: 740-605-1

Date Collected: 09/19/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Sample Air Volume: 692.52 L

Method: 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 12:57	1
Lead	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 12:57	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.18	U	0.18	ug/m3		09/26/22 08:29	09/26/22 12:57	1
Lead	0.18	U	0.18	ug/m3		09/26/22 08:29	09/26/22 12:57	1

Client Sample ID: CM-AS-DW-220919

Lab Sample ID: 740-605-2

Date Collected: 09/19/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Sample Air Volume: 699.35 L

Method: 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 12:59	1
Lead	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 12:59	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.18	U	0.18	ug/m3		09/26/22 08:29	09/26/22 12:59	1
Lead	0.18	U	0.18	ug/m3		09/26/22 08:29	09/26/22 12:59	1

Client Sample ID: CM-AS-UW-220919

Lab Sample ID: 740-605-3

Date Collected: 09/19/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Sample Air Volume: 714.41 L

Method: 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:01	1
Lead	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:01	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.17	U	0.17	ug/m3		09/26/22 08:29	09/26/22 13:01	1
Lead	0.17	U	0.17	ug/m3		09/26/22 08:29	09/26/22 13:01	1

Client Sample ID: CM-AS-UW-220921

Lab Sample ID: 740-605-4

Date Collected: 09/21/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Sample Air Volume: 1066.64 L

Method: 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:03	1
Lead	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:03	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12	U	0.12	ug/m3		09/26/22 08:29	09/26/22 13:03	1
Lead	0.12	U	0.12	ug/m3		09/26/22 08:29	09/26/22 13:03	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-605-1
SDG: 103X903100320001DH108

Client Sample ID: CM-AS-DUP-220921

Lab Sample ID: 740-605-5

Date Collected: 09/21/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Sample Air Volume: 1061.28 L

Method: 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:05	1
Lead	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:05	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12	U	0.12	ug/m3		09/26/22 08:29	09/26/22 13:05	1
Lead	0.12	U	0.12	ug/m3		09/26/22 08:29	09/26/22 13:05	1

Client Sample ID: CM-AS-DW-220921

Lab Sample ID: 740-605-6

Date Collected: 09/21/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Sample Air Volume: 1077.36 L

Method: 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:07	1
Lead	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:07	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12	U	0.12	ug/m3		09/26/22 08:29	09/26/22 13:07	1
Lead	0.12	U	0.12	ug/m3		09/26/22 08:29	09/26/22 13:07	1

Client Sample ID: CM-AS-BE-220921

Lab Sample ID: 740-605-7

Date Collected: 09/21/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Sample Air Volume: 1094.84 L

Method: 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:12	1
Lead	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:12	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11	U	0.11	ug/m3		09/26/22 08:29	09/26/22 13:12	1
Lead	0.11	U	0.11	ug/m3		09/26/22 08:29	09/26/22 13:12	1

Client Sample ID: CM-AS-DW-220922

Lab Sample ID: 740-605-8

Date Collected: 09/22/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Sample Air Volume: 1056.44 L

Method: 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:14	1
Lead	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:14	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12	U	0.12	ug/m3		09/26/22 08:29	09/26/22 13:14	1
Lead	0.12	U	0.12	ug/m3		09/26/22 08:29	09/26/22 13:14	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-605-1
SDG: 103X903100320001DH108

Client Sample ID: CM-AS-BE-220922

Lab Sample ID: 740-605-9

Date Collected: 09/22/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Sample Air Volume: 1077.12 L

Method: 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:16	1
Lead	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:16	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12	U	0.12	ug/m3		09/26/22 08:29	09/26/22 13:16	1
Lead	0.12	U	0.12	ug/m3		09/26/22 08:29	09/26/22 13:16	1

Client Sample ID: CM-AS-UW-220922

Lab Sample ID: 740-605-10

Date Collected: 09/22/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Sample Air Volume: 1069.32 L

Method: 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:18	1
Lead	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:18	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12	U	0.12	ug/m3		09/26/22 08:29	09/26/22 13:18	1
Lead	0.12	U	0.12	ug/m3		09/26/22 08:29	09/26/22 13:18	1

Client Sample ID: CM-AS-FB-220922

Lab Sample ID: 740-605-11

Date Collected: 09/22/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Sample Air Volume: 0 L

Method: 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:20	1
Lead	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 13:20	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-605-1
SDG: 103X903100320001DH108

Method: 7303 - NIOSH Method 7303 ICP-MS (Modified)

Lab Sample ID: MB 740-612/1-A

Matrix: Air

Analysis Batch: 614

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 612

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 12:49	1
Lead	0.13	U	0.13	ug/Sample		09/26/22 08:29	09/26/22 12:49	1

Lab Sample ID: LCS 740-612/3-A

Matrix: Air

Analysis Batch: 614

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 612

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	2.48	2.63		ug/Sample		106	80 - 120
Lead	2.48	2.43		ug/Sample		98	80 - 120

Lab Sample ID: LCSD 740-612/4-A

Matrix: Air

Analysis Batch: 614

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 612

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	2.48	2.59		ug/Sample		105	80 - 120	2	20
Lead	2.48	2.44		ug/Sample		99	80 - 120	1	20

Lab Sample ID: LLCS 740-612/2-A

Matrix: Air

Analysis Batch: 614

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 612

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.124	0.13		ug/Sample		106	60 - 140
Lead	0.124	0.14		ug/Sample		116	60 - 140

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-605-1
SDG: 103X903100320001DH108

IH - Metals

Prep Batch: 612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
740-605-1	CM-AS-BE-2220919	Total/NA	Filter-MCE	Filter Prep	
740-605-2	CM-AS-DW-220919	Total/NA	Filter-MCE	Filter Prep	
740-605-3	CM-AS-UW-220919	Total/NA	Filter-MCE	Filter Prep	
740-605-4	CM-AS-UW-220921	Total/NA	Filter-MCE	Filter Prep	
740-605-5	CM-AS-DUP-220921	Total/NA	Filter-MCE	Filter Prep	
740-605-6	CM-AS-DW-220921	Total/NA	Filter-MCE	Filter Prep	
740-605-7	CM-AS-BE-220921	Total/NA	Filter-MCE	Filter Prep	
740-605-8	CM-AS-DW-220922	Total/NA	Filter-MCE	Filter Prep	
740-605-9	CM-AS-BE-220922	Total/NA	Filter-MCE	Filter Prep	
740-605-10	CM-AS-UW-220922	Total/NA	Filter-MCE	Filter Prep	
740-605-11	CM-AS-FB-220922	Total/NA	Filter-MCE	Filter Prep	
MB 740-612/1-A	Method Blank	Total/NA	Air	Filter Prep	
LCS 740-612/3-A	Lab Control Sample	Total/NA	Air	Filter Prep	
LCSD 740-612/4-A	Lab Control Sample Dup	Total/NA	Air	Filter Prep	
LLCS 740-612/2-A	Lab Control Sample	Total/NA	Air	Filter Prep	

Analysis Batch: 614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
740-605-1	CM-AS-BE-2220919	Total/NA	Filter-MCE	7303	612
740-605-2	CM-AS-DW-220919	Total/NA	Filter-MCE	7303	612
740-605-3	CM-AS-UW-220919	Total/NA	Filter-MCE	7303	612
740-605-4	CM-AS-UW-220921	Total/NA	Filter-MCE	7303	612
740-605-5	CM-AS-DUP-220921	Total/NA	Filter-MCE	7303	612
740-605-6	CM-AS-DW-220921	Total/NA	Filter-MCE	7303	612
740-605-7	CM-AS-BE-220921	Total/NA	Filter-MCE	7303	612
740-605-8	CM-AS-DW-220922	Total/NA	Filter-MCE	7303	612
740-605-9	CM-AS-BE-220922	Total/NA	Filter-MCE	7303	612
740-605-10	CM-AS-UW-220922	Total/NA	Filter-MCE	7303	612
740-605-11	CM-AS-FB-220922	Total/NA	Filter-MCE	7303	612
MB 740-612/1-A	Method Blank	Total/NA	Air	7303	612
LCS 740-612/3-A	Lab Control Sample	Total/NA	Air	7303	612
LCSD 740-612/4-A	Lab Control Sample Dup	Total/NA	Air	7303	612
LLCS 740-612/2-A	Lab Control Sample	Total/NA	Air	7303	612

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-605-1
SDG: 103X903100320001DH108

Client Sample ID: CM-AS-BE-2220919

Lab Sample ID: 740-605-1

Date Collected: 09/19/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			612	AB	EJ3	09/26/22 08:29
Total/NA	Analysis	7303		1	614	RP	EJ3	09/26/22 12:57

Client Sample ID: CM-AS-DW-220919

Lab Sample ID: 740-605-2

Date Collected: 09/19/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			612	AB	EJ3	09/26/22 08:29
Total/NA	Analysis	7303		1	614	RP	EJ3	09/26/22 12:59

Client Sample ID: CM-AS-UW-220919

Lab Sample ID: 740-605-3

Date Collected: 09/19/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			612	AB	EJ3	09/26/22 08:29
Total/NA	Analysis	7303		1	614	RP	EJ3	09/26/22 13:01

Client Sample ID: CM-AS-UW-220921

Lab Sample ID: 740-605-4

Date Collected: 09/21/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			612	AB	EJ3	09/26/22 08:29
Total/NA	Analysis	7303		1	614	RP	EJ3	09/26/22 13:03

Client Sample ID: CM-AS-DUP-220921

Lab Sample ID: 740-605-5

Date Collected: 09/21/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			612	AB	EJ3	09/26/22 08:29
Total/NA	Analysis	7303		1	614	RP	EJ3	09/26/22 13:05

Client Sample ID: CM-AS-DW-220921

Lab Sample ID: 740-605-6

Date Collected: 09/21/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			612	AB	EJ3	09/26/22 08:29
Total/NA	Analysis	7303		1	614	RP	EJ3	09/26/22 13:07

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-605-1
SDG: 103X903100320001DH108

Client Sample ID: CM-AS-BE-220921

Lab Sample ID: 740-605-7

Date Collected: 09/21/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			612	AB	EJ3	09/26/22 08:29
Total/NA	Analysis	7303		1	614	RP	EJ3	09/26/22 13:12

Client Sample ID: CM-AS-DW-220922

Lab Sample ID: 740-605-8

Date Collected: 09/22/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			612	AB	EJ3	09/26/22 08:29
Total/NA	Analysis	7303		1	614	RP	EJ3	09/26/22 13:14

Client Sample ID: CM-AS-BE-220922

Lab Sample ID: 740-605-9

Date Collected: 09/22/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			612	AB	EJ3	09/26/22 08:29
Total/NA	Analysis	7303		1	614	RP	EJ3	09/26/22 13:16

Client Sample ID: CM-AS-UW-220922

Lab Sample ID: 740-605-10

Date Collected: 09/22/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			612	AB	EJ3	09/26/22 08:29
Total/NA	Analysis	7303		1	614	RP	EJ3	09/26/22 13:18

Client Sample ID: CM-AS-FB-220922

Lab Sample ID: 740-605-11

Date Collected: 09/22/22 00:00

Matrix: Filter-MCE

Date Received: 09/23/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			612	AB	EJ3	09/26/22 08:29
Total/NA	Analysis	7303		1	614	RP	EJ3	09/26/22 13:20

Laboratory References:

EJ3 = Eurofins J3 Resources, Inc., 3113 Red Bluff Road, Pasadena, TX 77503, TEL (713)290-0223

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-605-1
SDG: 103X903100320001DH108

Method	Method Description	Protocol	Laboratory
7303	NIOSH Method 7303 ICP-MS (Modified)	NIOSH	EJ3
Filter Prep	Preparation, IH Filter	NIOSH	EJ3

Protocol References:

NIOSH = NIOSH Manual Of Analytical Methods, National Institute For Occupational Safety And Health, 4th Edition, August 1994 and it's Supplements

Laboratory References:

EJ3 = Eurofins J3 Resources, Inc., 3113 Red Bluff Road, Pasadena, TX 77503, TEL (713)290-0223

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-605-1
SDG: 103X903100320001DH108

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
740-605-1	CM-AS-BE-2220919	Filter-MCE	09/19/22 00:00	09/23/22 09:25
740-605-2	CM-AS-DW-220919	Filter-MCE	09/19/22 00:00	09/23/22 09:25
740-605-3	CM-AS-UW-220919	Filter-MCE	09/19/22 00:00	09/23/22 09:25
740-605-4	CM-AS-UW-220921	Filter-MCE	09/21/22 00:00	09/23/22 09:25
740-605-5	CM-AS-DUP-220921	Filter-MCE	09/21/22 00:00	09/23/22 09:25
740-605-6	CM-AS-DW-220921	Filter-MCE	09/21/22 00:00	09/23/22 09:25
740-605-7	CM-AS-BE-220921	Filter-MCE	09/21/22 00:00	09/23/22 09:25
740-605-8	CM-AS-DW-220922	Filter-MCE	09/22/22 00:00	09/23/22 09:25
740-605-9	CM-AS-BE-220922	Filter-MCE	09/22/22 00:00	09/23/22 09:25
740-605-10	CM-AS-UW-220922	Filter-MCE	09/22/22 00:00	09/23/22 09:25
740-605-11	CM-AS-FB-220922	Filter-MCE	09/22/22 00:00	09/23/22 09:25

IH CHAIN OF CUSTODY



J3 Resources

☐ Open Lab Fee

40003/605

Submitter Name: Rachel Houle, Alexia Scholl		Bill to: Tetra Tech - Accounts Payable	
Company: Tetra Tech		Address: 1 S Wacker Dr	
Address: 1 S Wacker Dr		City/State: Chicago, IL Zip: 60606	
City/State: Chicago, IL Zip: 60606		PO #:	
Project Information			
Project Name: Chudnow Metals		Project Manager: Rachel Houle	
Project #: 103X903100320001DH108		Telephone – Office/Cell: 708-955-4569	
Reports - Email Address: rachel.houle@tetrattech.com, alexia.scholl@tetrattech.com			
Invoice - Email Address: emi.accounts payable@tetrattech.com		Notification By: Email: <input checked="" type="checkbox"/> Verbal: <input type="checkbox"/>	
Special Instructions: Lead and Arsenic only			
Turnaround Times – Please Select One			
Emergency* <input type="checkbox"/>	1 Day <input type="checkbox"/>	2 Day <input type="checkbox"/>	3 Day <input type="checkbox"/>
5 Day <input checked="" type="checkbox"/>			
ASBESTOS			
PLM - Bulk	PCM - Air	TEM - Air	TEM - Bulk
EPA 600/R-93/116 <input type="checkbox"/> Visual Estimation (<1%) <input type="checkbox"/> 400 Point Count 0.25% <input type="checkbox"/> 1,000 Point Count 0.1% <input type="checkbox"/> Gravimetric Reduction <input type="checkbox"/> Matrix Reduction (+/-) <input type="checkbox"/> NIOSH 9002 <input type="checkbox"/> OSHA ID-191	<input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> ASTM D7201 <input type="checkbox"/> ISO 8672 <input type="checkbox"/> OSHA ID-160	<input type="checkbox"/> AHERA <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> ASTM D6281 <input type="checkbox"/> ISO 10312 <input type="checkbox"/> ISO 13794	<input type="checkbox"/> Gravimetric Reduction (<1%) <input type="checkbox"/> Matrix Reduction (+/-) <input type="checkbox"/> Qualitative (+/-) <input type="checkbox"/> Drop Mount <input type="checkbox"/> Filtration
			TEM - Water <input type="checkbox"/> EPA 100.2 Drinking Water <input type="checkbox"/> >10 µm fibers <input type="checkbox"/> ≥0.5 µm fibers <input type="checkbox"/> EPA 100.2 Effluent / WW Received on ice: <input type="checkbox"/> Yes <input type="checkbox"/> No Temp: _____
			TEM - Dust <input type="checkbox"/> ASTM D5755 Microvac <input type="checkbox"/> ASTM D6480 Wipe <input type="checkbox"/> 600/J-93/167 Carpet - EPA <input type="checkbox"/> Bulk Dust Qualitative
			TEM/PLM Soil/Vermiculite/Ore <input type="checkbox"/> ASTM 7521-TEM (+/-) <input type="checkbox"/> ASTM 7521-TEM (<1%) <input type="checkbox"/> CARB 435-Modified <input type="checkbox"/> Soil – PLM Only (+/-) <input type="checkbox"/> Vermiculite - TEM (+/-) <input type="checkbox"/> Vermiculite-Cincinnati <input type="checkbox"/> Erionite ID
METALS			SILICA/PARTICULATES
Flame AA	Graphite Furnace AA - LEAD	ICP	X-Ray Diffraction / Gravimetric / Combustion Byproduct
<input type="checkbox"/> Lead in Paint – SW846 7420/3050B <input type="checkbox"/> Lead in Air – NIOSH 7082 <input type="checkbox"/> Lead in Wipes – SW846 7420/3050B <input type="checkbox"/> Lead in Soil – SW846 7420/3050B <input type="checkbox"/> TCLP – SW846-7420/1311	<input type="checkbox"/> Drinking Water – EPA 200.9 <input type="checkbox"/> Wastewater – SW846-7421 <input type="checkbox"/> Soil/Sludge – SW846-7421 <input type="checkbox"/> Air – NIOSH 7105	<input checked="" type="checkbox"/> Elements in Air – NIOSH 7300 <input type="checkbox"/> Wipe/Soil – SW846-6010B <input type="checkbox"/> Effluent – SW846-6010B <input type="checkbox"/> Welding Fume – NIOSH 7300M	<input type="checkbox"/> Respirable Crystalline Silica NIOSH 7500 / OSHA 142 <input type="checkbox"/> NIOSH 0500 – Total Particulates <input type="checkbox"/> NIOSH 0600 – Respirable Particulates ASTM 6602 - CBP <input type="checkbox"/> PLM <input type="checkbox"/> TEM <input type="checkbox"/> SEM
Total Number of Samples Submitted: 11/mg			Positive Stop: <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> By Layer <input type="checkbox"/> By Sample
Signatures			
Relinquished By:		Date:	Time:
Received By: Condition: Good		Date: 9/23/22	Time: 9:25a
Relinquished By:		Date:	Time:
Received By:		Date:	Time:

* Emergency TAT requires prior lab notification. All samples analyzed outside normal business hours are charged at Emergency rate.

**TAT's are in Business Days rather than Hours (i.e. 1 Day TAT = End of Next Business Day)

Eurofins J3 Resources, Inc. • 6110 West 34th Street • Houston, Texas 77092 • tel: 713-290-0221 • fax: 713-290-0248

Eurofins J3 Resources, Inc. • 3113 Red Bluff Road • Pasadena, Texas 77503 • tel: 713-290-0223 • fax: 713-290-0248

Page ____ of ____

Project Name Chudnow Metals
Project Number 103X9031003200

Page ____ of ____

SAMPLE IDENTIFICATION

[illegible]

Eurofins J3 Resources, Inc. ♦ 6110 West 34th Street ♦ Houston, Texas 77092 ♦ tel: 713-290-0221 ♦ fax: 713-290-0248
Eurofins J3 Resources, Inc. ♦ 3113 Red Bluff Road ♦ Pasadena, Texas 77503 ♦ tel: 713-290-0223 ♦ fax: 713-290-0248

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 740-605-1

SDG Number: 103X903100320001DH108

Login Number: 605

List Number: 1

Creator: Guerra, Mariela

List Source: Eurofins J3 Resources, Inc.

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

ANALYTICAL REPORT

Eurofins J3 Resources, Inc.
3113 Red Bluff Road
Pasadena, TX 77503
Tel: (713)290-0223

Laboratory Job ID: 740-612-1

Laboratory Sample Delivery Group: 103X903100320001DH108
Client Project/Site: Chudnow Metals

For:

Tetra Tech, Inc.
1 South Wacker Dr.
Suite 3700
Chicago, Illinois 60606

Attn: Rachel Houle

Reddy Pakanati

Authorized for release by:

10/5/2022 4:31:11 PM

Reddy Pakanati, Department Manager II
(713)290-0223

reddy.pakanati@et.eurofinsus.com

Designee for

Mariela Guerra, Project Manager
(713)290-0223

Mariela.Guerra@et.eurofinsus.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-612-1
SDG: 103X903100320001DH108

Qualifiers

IH - Metals

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-612-1
SDG: 103X903100320001DH108

Client Sample ID: CM-AS-UW-220923

Lab Sample ID: 740-612-1

No Detections.

Client Sample ID: CM-AS-DW-220923

Lab Sample ID: 740-612-2

No Detections.

Client Sample ID: CM-AS-BE-220923

Lab Sample ID: 740-612-3

No Detections.

Client Sample ID: CM-AS-UW-220926

Lab Sample ID: 740-612-4

No Detections.

Client Sample ID: CM-AS-DW-220926

Lab Sample ID: 740-612-5

No Detections.

Client Sample ID: CM-AS-BE-220926

Lab Sample ID: 740-612-6

No Detections.

Client Sample ID: CM-AS-UW-220927

Lab Sample ID: 740-612-7

No Detections.

Client Sample ID: CM-AS-DW-220927

Lab Sample ID: 740-612-8

No Detections.

Client Sample ID: CM-AS-BE-220927

Lab Sample ID: 740-612-9

No Detections.

Client Sample ID: CM-AS-UW-220928

Lab Sample ID: 740-612-10

No Detections.

Client Sample ID: CM-AS-DW-220928

Lab Sample ID: 740-612-11

No Detections.

Client Sample ID: CM-AS-BE-220928

Lab Sample ID: 740-612-12

No Detections.

Client Sample ID: CM-AS-DUP-220928

Lab Sample ID: 740-612-13

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins J3 Resources, Inc.

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-612-1
SDG: 103X903100320001DH108

Client Sample ID: CM-AS-UW-220923

Lab Sample ID: 740-612-1

Date Collected: 09/23/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Sample Air Volume: 844.36 L

Method: NIOSH 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 15:53	1
Lead	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 15:53	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.15	U	0.15	ug/m3		10/03/22 08:23	10/03/22 15:53	1
Lead	0.15	U	0.15	ug/m3		10/03/22 08:23	10/03/22 15:53	1

Client Sample ID: CM-AS-DW-220923

Lab Sample ID: 740-612-2

Date Collected: 09/23/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Sample Air Volume: 821.24 L

Method: NIOSH 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 15:55	1
Lead	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 15:55	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.15	U	0.15	ug/m3		10/03/22 08:23	10/03/22 15:55	1
Lead	0.15	U	0.15	ug/m3		10/03/22 08:23	10/03/22 15:55	1

Client Sample ID: CM-AS-BE-220923

Lab Sample ID: 740-612-3

Date Collected: 09/23/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Sample Air Volume: 816.74 L

Method: NIOSH 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 15:57	1
Lead	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 15:57	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.15	U	0.15	ug/m3		10/03/22 08:23	10/03/22 15:57	1
Lead	0.15	U	0.15	ug/m3		10/03/22 08:23	10/03/22 15:57	1

Client Sample ID: CM-AS-UW-220926

Lab Sample ID: 740-612-4

Date Collected: 09/26/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Sample Air Volume: 1111.1 L

Method: NIOSH 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 15:59	1
Lead	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 15:59	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11	U	0.11	ug/m3		10/03/22 08:23	10/03/22 15:59	1
Lead	0.11	U	0.11	ug/m3		10/03/22 08:23	10/03/22 15:59	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-612-1
SDG: 103X903100320001DH108

Client Sample ID: CM-AS-DW-220926

Lab Sample ID: 740-612-5

Date Collected: 09/26/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Sample Air Volume: 1118.58 L

Method: NIOSH 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:01	1
Lead	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:01	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11	U	0.11	ug/m3		10/03/22 08:23	10/03/22 16:01	1
Lead	0.11	U	0.11	ug/m3		10/03/22 08:23	10/03/22 16:01	1

Client Sample ID: CM-AS-BE-220926

Lab Sample ID: 740-612-6

Date Collected: 09/26/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Sample Air Volume: 1040.3 L

Method: NIOSH 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:03	1
Lead	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:03	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12	U	0.12	ug/m3		10/03/22 08:23	10/03/22 16:03	1
Lead	0.12	U	0.12	ug/m3		10/03/22 08:23	10/03/22 16:03	1

Client Sample ID: CM-AS-UW-220927

Lab Sample ID: 740-612-7

Date Collected: 09/27/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Sample Air Volume: 1040.3 L

Method: NIOSH 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:08	1
Lead	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:08	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12	U	0.12	ug/m3		10/03/22 08:23	10/03/22 16:08	1
Lead	0.12	U	0.12	ug/m3		10/03/22 08:23	10/03/22 16:08	1

Client Sample ID: CM-AS-DW-220927

Lab Sample ID: 740-612-8

Date Collected: 09/27/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Sample Air Volume: 999.1 L

Method: NIOSH 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:10	1
Lead	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:10	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/m3		10/03/22 08:23	10/03/22 16:10	1
Lead	0.13	U	0.13	ug/m3		10/03/22 08:23	10/03/22 16:10	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-612-1
SDG: 103X903100320001DH108

Client Sample ID: CM-AS-BE-220927

Lab Sample ID: 740-612-9

Date Collected: 09/27/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Sample Air Volume: 1071.2 L

Method: NIOSH 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:12	1
Lead	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:12	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12	U	0.12	ug/m3		10/03/22 08:23	10/03/22 16:12	1
Lead	0.12	U	0.12	ug/m3		10/03/22 08:23	10/03/22 16:12	1

Client Sample ID: CM-AS-UW-220928

Lab Sample ID: 740-612-10

Date Collected: 09/28/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Sample Air Volume: 1076.52 L

Method: NIOSH 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:14	1
Lead	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:14	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12	U	0.12	ug/m3		10/03/22 08:23	10/03/22 16:14	1
Lead	0.12	U	0.12	ug/m3		10/03/22 08:23	10/03/22 16:14	1

Client Sample ID: CM-AS-DW-220928

Lab Sample ID: 740-612-11

Date Collected: 09/28/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Sample Air Volume: 1097.68 L

Method: NIOSH 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:16	1
Lead	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:16	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11	U	0.11	ug/m3		10/03/22 08:23	10/03/22 16:16	1
Lead	0.11	U	0.11	ug/m3		10/03/22 08:23	10/03/22 16:16	1

Client Sample ID: CM-AS-BE-220928

Lab Sample ID: 740-612-12

Date Collected: 09/28/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Sample Air Volume: 1060.0 L

Method: NIOSH 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:18	1
Lead	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:18	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12	U	0.12	ug/m3		10/03/22 08:23	10/03/22 16:18	1
Lead	0.12	U	0.12	ug/m3		10/03/22 08:23	10/03/22 16:18	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-612-1
SDG: 103X903100320001DH108

Client Sample ID: CM-AS-DUP-220928

Lab Sample ID: 740-612-13

Date Collected: 09/28/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Sample Air Volume: 1067.95 L

Method: NIOSH 7303 - NIOSH Method 7303 ICP-MS (Modified)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:20	1
Lead	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 16:20	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12	U	0.12	ug/m3		10/03/22 08:23	10/03/22 16:20	1
Lead	0.12	U	0.12	ug/m3		10/03/22 08:23	10/03/22 16:20	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-612-1
SDG: 103X903100320001DH108

Method: 7303 - NIOSH Method 7303 ICP-MS (Modified)

Lab Sample ID: MB 740-627/1-A

Matrix: Air

Analysis Batch: 630

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 627

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 15:45	1
Lead	0.13	U	0.13	ug/Sample		10/03/22 08:23	10/03/22 15:45	1

Lab Sample ID: LCS 740-627/3-A

Matrix: Air

Analysis Batch: 630

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	2.48	2.62		ug/Sample		106	80 - 120
Lead	2.48	2.53		ug/Sample		102	80 - 120

Lab Sample ID: LCSD 740-627/4-A

Matrix: Air

Analysis Batch: 630

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 627

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	2.48	2.60		ug/Sample		105	80 - 120	1	20
Lead	2.48	2.50		ug/Sample		101	80 - 120	1	20

Lab Sample ID: LLCS 740-627/2-A

Matrix: Air

Analysis Batch: 630

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 627

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.124	0.13		ug/Sample		106	60 - 140
Lead	0.124	0.13		ug/Sample		102	60 - 140

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-612-1
SDG: 103X903100320001DH108

IH - Metals

Prep Batch: 627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
740-612-1	CM-AS-UW-220923	Total/NA	Filter-MCE	Filter Prep	
740-612-2	CM-AS-DW-220923	Total/NA	Filter-MCE	Filter Prep	
740-612-3	CM-AS-BE-220923	Total/NA	Filter-MCE	Filter Prep	
740-612-4	CM-AS-UW-220926	Total/NA	Filter-MCE	Filter Prep	
740-612-5	CM-AS-DW-220926	Total/NA	Filter-MCE	Filter Prep	
740-612-6	CM-AS-BE-220926	Total/NA	Filter-MCE	Filter Prep	
740-612-7	CM-AS-UW-220927	Total/NA	Filter-MCE	Filter Prep	
740-612-8	CM-AS-DW-220927	Total/NA	Filter-MCE	Filter Prep	
740-612-9	CM-AS-BE-220927	Total/NA	Filter-MCE	Filter Prep	
740-612-10	CM-AS-UW-220928	Total/NA	Filter-MCE	Filter Prep	
740-612-11	CM-AS-DW-220928	Total/NA	Filter-MCE	Filter Prep	
740-612-12	CM-AS-BE-220928	Total/NA	Filter-MCE	Filter Prep	
740-612-13	CM-AS-DUP-220928	Total/NA	Filter-MCE	Filter Prep	
MB 740-627/1-A	Method Blank	Total/NA	Air	Filter Prep	
LCS 740-627/3-A	Lab Control Sample	Total/NA	Air	Filter Prep	
LCSD 740-627/4-A	Lab Control Sample Dup	Total/NA	Air	Filter Prep	
LLCS 740-627/2-A	Lab Control Sample	Total/NA	Air	Filter Prep	

Analysis Batch: 630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
740-612-1	CM-AS-UW-220923	Total/NA	Filter-MCE	7303	627
740-612-2	CM-AS-DW-220923	Total/NA	Filter-MCE	7303	627
740-612-3	CM-AS-BE-220923	Total/NA	Filter-MCE	7303	627
740-612-4	CM-AS-UW-220926	Total/NA	Filter-MCE	7303	627
740-612-5	CM-AS-DW-220926	Total/NA	Filter-MCE	7303	627
740-612-6	CM-AS-BE-220926	Total/NA	Filter-MCE	7303	627
740-612-7	CM-AS-UW-220927	Total/NA	Filter-MCE	7303	627
740-612-8	CM-AS-DW-220927	Total/NA	Filter-MCE	7303	627
740-612-9	CM-AS-BE-220927	Total/NA	Filter-MCE	7303	627
740-612-10	CM-AS-UW-220928	Total/NA	Filter-MCE	7303	627
740-612-11	CM-AS-DW-220928	Total/NA	Filter-MCE	7303	627
740-612-12	CM-AS-BE-220928	Total/NA	Filter-MCE	7303	627
740-612-13	CM-AS-DUP-220928	Total/NA	Filter-MCE	7303	627
MB 740-627/1-A	Method Blank	Total/NA	Air	7303	627
LCS 740-627/3-A	Lab Control Sample	Total/NA	Air	7303	627
LCSD 740-627/4-A	Lab Control Sample Dup	Total/NA	Air	7303	627
LLCS 740-627/2-A	Lab Control Sample	Total/NA	Air	7303	627

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-612-1
SDG: 103X903100320001DH108

Client Sample ID: CM-AS-UW-220923

Lab Sample ID: 740-612-1

Date Collected: 09/23/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			627	AB	EJ3	10/03/22 08:23
Total/NA	Analysis	7303		1	630	RP	EJ3	10/03/22 15:53

Client Sample ID: CM-AS-DW-220923

Lab Sample ID: 740-612-2

Date Collected: 09/23/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			627	AB	EJ3	10/03/22 08:23
Total/NA	Analysis	7303		1	630	RP	EJ3	10/03/22 15:55

Client Sample ID: CM-AS-BE-220923

Lab Sample ID: 740-612-3

Date Collected: 09/23/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			627	AB	EJ3	10/03/22 08:23
Total/NA	Analysis	7303		1	630	RP	EJ3	10/03/22 15:57

Client Sample ID: CM-AS-UW-220926

Lab Sample ID: 740-612-4

Date Collected: 09/26/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			627	AB	EJ3	10/03/22 08:23
Total/NA	Analysis	7303		1	630	RP	EJ3	10/03/22 15:59

Client Sample ID: CM-AS-DW-220926

Lab Sample ID: 740-612-5

Date Collected: 09/26/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			627	AB	EJ3	10/03/22 08:23
Total/NA	Analysis	7303		1	630	RP	EJ3	10/03/22 16:01

Client Sample ID: CM-AS-BE-220926

Lab Sample ID: 740-612-6

Date Collected: 09/26/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			627	AB	EJ3	10/03/22 08:23
Total/NA	Analysis	7303		1	630	RP	EJ3	10/03/22 16:03

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-612-1
SDG: 103X903100320001DH108

Client Sample ID: CM-AS-UW-220927

Lab Sample ID: 740-612-7

Date Collected: 09/27/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			627	AB	EJ3	10/03/22 08:23
Total/NA	Analysis	7303		1	630	RP	EJ3	10/03/22 16:08

Client Sample ID: CM-AS-DW-220927

Lab Sample ID: 740-612-8

Date Collected: 09/27/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			627	AB	EJ3	10/03/22 08:23
Total/NA	Analysis	7303		1	630	RP	EJ3	10/03/22 16:10

Client Sample ID: CM-AS-BE-220927

Lab Sample ID: 740-612-9

Date Collected: 09/27/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			627	AB	EJ3	10/03/22 08:23
Total/NA	Analysis	7303		1	630	RP	EJ3	10/03/22 16:12

Client Sample ID: CM-AS-UW-220928

Lab Sample ID: 740-612-10

Date Collected: 09/28/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			627	AB	EJ3	10/03/22 08:23
Total/NA	Analysis	7303		1	630	RP	EJ3	10/03/22 16:14

Client Sample ID: CM-AS-DW-220928

Lab Sample ID: 740-612-11

Date Collected: 09/28/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			627	AB	EJ3	10/03/22 08:23
Total/NA	Analysis	7303		1	630	RP	EJ3	10/03/22 16:16

Client Sample ID: CM-AS-BE-220928

Lab Sample ID: 740-612-12

Date Collected: 09/28/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			627	AB	EJ3	10/03/22 08:23
Total/NA	Analysis	7303		1	630	RP	EJ3	10/03/22 16:18

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-612-1
SDG: 103X903100320001DH108

Client Sample ID: CM-AS-DUP-220928

Lab Sample ID: 740-612-13

Date Collected: 09/28/22 00:00

Matrix: Filter-MCE

Date Received: 09/29/22 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Filter Prep			627	AB	EJ3	10/03/22 08:23
Total/NA	Analysis	7303		1	630	RP	EJ3	10/03/22 16:20

Laboratory References:

EJ3 = Eurofins J3 Resources, Inc., 3113 Red Bluff Road, Pasadena, TX 77503, TEL (713)290-0223

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-612-1
SDG: 103X903100320001DH108

Method	Method Description	Protocol	Laboratory
7303	NIOSH Method 7303 ICP-MS (Modified)	NIOSH	EJ3
Filter Prep	Preparation, IH Filter	NIOSH	EJ3

Protocol References:

NIOSH = NIOSH Manual Of Analytical Methods, National Institute For Occupational Safety And Health, 4th Edition, August 1994 and it's Supplements

Laboratory References:

EJ3 = Eurofins J3 Resources, Inc., 3113 Red Bluff Road, Pasadena, TX 77503, TEL (713)290-0223

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Chudnow Metals

Job ID: 740-612-1
SDG: 103X903100320001DH108

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
740-612-1	CM-AS-UW-220923	Filter-MCE	09/23/22 00:00	09/29/22 09:18
740-612-2	CM-AS-DW-220923	Filter-MCE	09/23/22 00:00	09/29/22 09:18
740-612-3	CM-AS-BE-220923	Filter-MCE	09/23/22 00:00	09/29/22 09:18
740-612-4	CM-AS-UW-220926	Filter-MCE	09/26/22 00:00	09/29/22 09:18
740-612-5	CM-AS-DW-220926	Filter-MCE	09/26/22 00:00	09/29/22 09:18
740-612-6	CM-AS-BE-220926	Filter-MCE	09/26/22 00:00	09/29/22 09:18
740-612-7	CM-AS-UW-220927	Filter-MCE	09/27/22 00:00	09/29/22 09:18
740-612-8	CM-AS-DW-220927	Filter-MCE	09/27/22 00:00	09/29/22 09:18
740-612-9	CM-AS-BE-220927	Filter-MCE	09/27/22 00:00	09/29/22 09:18
740-612-10	CM-AS-UW-220928	Filter-MCE	09/28/22 00:00	09/29/22 09:18
740-612-11	CM-AS-DW-220928	Filter-MCE	09/28/22 00:00	09/29/22 09:18
740-612-12	CM-AS-BE-220928	Filter-MCE	09/28/22 00:00	09/29/22 09:18
740-612-13	CM-AS-DUP-220928	Filter-MCE	09/28/22 00:00	09/29/22 09:18

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 740-612-1

SDG Number: 103X903100320001DH108

Login Number: 612

List Number: 1

Creator: Basave, Alejandra

List Source: Eurofins J3 Resources, Inc.

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Samples do not require splitting or compositing.		
Container provided by EEA		

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 740-612-1

SDG Number: 103X903100320001DH108

Login Number: 612

List Number: 2

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List Source: Eurofins J3 Resources, Inc.

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	
Sample collection date/times are provided.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Samples do not require splitting or compositing.	N/A	
Container provided by EEA	N/A	