TETRA TECH

July 26, 2018

Mr. Todd Davis
Site Assessment Manager
U.S. Environmental Protection Agency, Region 7
11201 Renner Blvd.
Lenexa, Kansas 66219

Subject: **Phase II Targeted Brownfields Assessment, Rev. 01**
Former Health Module, 249 Spruce Avenue, Niobrara, Knox County, Nebraska
EPA Region 7, START 4, Contract No. EP-S7-13-06,
Task Order No. 0002.019.024
Task Monitor: Todd Davis, Site Assessment Manager

Dear Mr. Davis:

Tetra Tech, Inc. (Tetra Tech) is submitting the enclosed revised Phase II Targeted Brownfields Assessment (TBA) report regarding the Former Health Module property assessment in Knox County, Nebraska. The TBA includes investigations to confirm or eliminate recognized environmental conditions specified in the Phase I TBA report prepared by Tetra Tech in March 2017.

If you have any questions or comments regarding this submittal, please call the Project Manager at (816) 412-1768.

Sincerely,

Kaitlyn Mitchell

Kaitlyn Mitchell
START Project Manager

Ted Faile

Ted Faile, PG, CHMM
START Program Manager

Enclosures

cc: Debra Dorsey, START Project Officer (cover letter only)
Whitney Bynum, EPA Brownfields and Land Revitalization Branch
Randy Brown, EPA On-Scene Coordinator

415 Oak Street, Kansas City, MO 64106
Tel 816.412.1741 Fax 816.410.1748 www.tetratech.com

PHASE II TARGETED BROWNFIELDS ASSESSMENT
REV. 01

FORMER HEALTH MODULE
249 SPRUCE AVENUE
NIOBRARA, KNOX COUNTY, NEBRASKA

Superfund Technical Assessment and Response Team (START) 4

Contract No. EP-S7-13-06, Task Order No. 0002.019.024

Prepared For:

U.S. Environmental Protection Agency
Region 7
11201 Renner Blvd.
Lenexa, Kansas 66219

July 26, 2018

Prepared By:

Tetra Tech, Inc.
415 Oak Street
Kansas City, Missouri 64106
(816) 412-1741

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EXECUTIVE SUMMARY

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase II Targeted Brownfield Assessment (TBA) of an approximately 2-acre property at 249 Spruce Avenue in Niobrara, Knox County, Nebraska (subject property). The subject property was historically a feed store, part of a race track, and a garage or shed until use as the Ponca Tribe of Nebraska's Health Services building. The building is now vacant and used to store office supplies and furniture. The purpose of the Phase II TBA was to confirm or eliminate recognized environmental conditions (REC) identified in an earlier Phase I TBA (Tetra Tech 2017a). START conducted this Phase II TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, ASTM International (ASTM) designation E1903-97-11, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (40 *Code of Federal Regulations* [CFR] Part 312) (ASTM 2011).

A REC identified during the Phase I TBA was confirmed by results from sampling during the Phase II TBA. Those results indicated that elevated levels of arsenic in subsurface soils on the northern portion of the subject property exceed EPA Regional Screening Levels (RSL) and Nebraska Department of Environmental Quality (NDEQ) Voluntary Cleanup Program (VCP) Remediation Goals (RG) for residential and industrial soils.

Based on sampling during the Phase II TBA, elevated arsenic levels are present sporadically in subsurface soils on the northern portion of the subject property. It is unlikely that the historic uses of the subject property would cause elevated arsenic levels at these depths. Distribution of arsenic in the soils show increasing concentrations with depth. Spill or past disposal of product or waste at the property would show higher concentrations at the surface with decreasing concentrations at depth. Additionally, naturally occurring arsenic has been found in the region. According to Allison Gienapp, Ponca Tribe, future use of the subject property will depend on results of this investigation. One option is a pollinator garden. Arsenic concentrations in surface soils (0-2 feet below ground surface [bgs]) ranged from 5.75 to 6.31 milligrams per kilogram (mg/kg) which were below the United States Geological Survey (USGS) background concentration. The USGS-determined average concentration of arsenic in surface soils in Knox County is 6.5 mg/kg, with a range of 1.87 to 14.48 mg/kg. No further investigation or remediation is recommended at the subject property. However, if a potable water well were to be installed at the subject property in the future, it is recommended that the water be sampled to ensure that arsenic has not contaminated drinking water.

1.0 INTRODUCTION

The Tetra Tech, Inc. (Tetra Tech) Region 7 Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase II Targeted Brownfields Assessment (TBA) of an approximately 2-acre property at 249 Spruce Avenue in Niobrara, Knox County, Nebraska (subject property) (see Appendix A). The subject property is owned by the Ponca Tribe of Nebraska. For the purpose of this TBA, the *users* are defined as EPA and the Ponca Tribe of Nebraska (Ponca Tribe). The subject property was historically a feed store, part of a race track, and a garage or shed until use as the Ponca Tribe of Nebraska's Health Services building. The building is now vacant and used to store office supplies and furniture.

The primary purpose of the investigation was to assess impacts on the subject property of hazardous substances that may have been released into soil and groundwater. The scope of this TBA included:

- Sampling surface and subsurface soil to assess possible soil contamination
- Sampling groundwater to assess possible contamination.

This TBA accorded with industry standard practice for Phase II Environmental Site Assessments (ESA). The following sections address the subject property background and history, describe Phase II TBA activities, present and evaluate analytical results, discuss findings, and offer conclusions.

1.1 PURPOSE

This Phase II TBA was conducted to confirm or eliminate recognized environmental conditions (REC) identified during the Phase I TBA (Tetra Tech 2017a) with intent to acquire information regarding the nature of contamination (if present) that would support informed business decisions about the property, and where applicable, satisfy the innocent purchaser defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (ASTM 2011). A REC specified in the Phase I TBA report pertains to current and historical site uses and adjacent property uses. Samples of soil and groundwater were collected during the Phase II TBA to confirm or eliminate that REC, and to identify the nature of contamination (if present) and risks posed by that contamination.

1.2 SPECIAL TERMS AND CONDITIONS

No special terms or conditions were identified during the Phase II TBA.

2.0 BACKGROUND AND SITE HISTORY

This section briefly describes the subject property and physical setting, recounts site history, and discusses land uses at the subject property and adjacent properties.

2.1 SITE DESCRIPTION AND FEATURES

The subject property encompasses approximately 2 acres. The subject property is currently a vacant building used for office supply and furniture storage. Historically, the subject property building was used for the tribe's health center, part of a race track, and a feed store. A garage or shed was on the eastern portion of the subject property, but exact use of the garage or shed is unknown, and the concrete foundation is all that remains.

2.2 PHYSICAL SETTING

The subject property is an approximately 2-acre area owned by the Ponca Tribe of Nebraska. The subject property is at 249 Spruce Avenue in Niobrara, Knox County, Nebraska (see Appendix B, Figure 2).

The subject property is depicted on the U.S. Geological Survey (USGS) 7.5-minute series Niobrara, Nebraska topographic quadrangle map (USGS 1950) in the northeast ¼ of Section 17, Township 32 North, Range 6 West (see Appendix A, Figure 1). Coordinates at the approximate center of the subject property are 42° 45' 6.08" north latitude and 98° 1' 59.54" west longitude.

The subject property is in a mixed commercial and residential area on the north side of Niobrara, Nebraska. Figure 2 in Appendix A illustrates the subject property location and boundaries. The subject property is bounded north by a vacant lot, with Maple Street beyond; east by vacant lots; south by the tribal headquarters building and the transit storage building, with Woodbine Street beyond; and west by an automotive dealership.

2.2.1 Geologic Setting

Bedrock in Knox County consists of layers of sandstone, chalk, and shale of Cretaceous age. Two rock units of Late Cretaceous age are exposed within the County. The Niobrara Formation is the lower of these units. It is composed of chalk, calcareous shale, and shaley limestone. It is overlain by the Pierre Shale, a formation consisting of bentonitic shale, calcareous shale, shaley chalk, and claystone (U.S. Department of Agriculture [USDA] 1997).

2.2.2 Hydrogeology

Regionally, the subject property is within the Great Plains aquifer system, which is exposed at the land surface in a band that extends from south-central Kansas to northeastern Nebraska. This aquifer system consists of two sandstone aquifers in Cretaceous rocks, separated by a shale confining unit. Although the Great Plains aquifer system extends in the subsurface throughout Kansas and Nebraska, it contains saline water in many places north and west of the area where it is exposed. A thick confining unit composed of Cretaceous shale, chalk, and limestone formations overlies the Great Plains aquifer system and separates it from the High Plains aquifer in most places (USGS 1997).

A search of the USGS Federal Reporting Data System (FRDS) Public Water Supply (PWS), and state databases did not identify any wells within a 1-mile radius of the subject property (Environmental Data Resources, Inc. [EDR] 2016). During the site reconnaissance, no wells were identified on the subject property.

2.2.3 Hydrology

The subject property is in the Lewis and Clark Lake Watershed (EPA 2016a). Water on the subject property likely infiltrates the ground or follows local topography to the north toward the Missouri River.

2.3 SITE HISTORY AND LAND USE

The subject property currently hosts a vacant building used for office supply and furniture storage. Historically, the subject property building was used for the tribe's health center and a feed store. A garage or shed was on the eastern portion of the subject property; however, exact use of the garage or shed is unknown, and the concrete foundation is all that remains.

No Sanborn Fire Insurance Maps that included the subject property were available. Historical aerial photographs show the subject property as undeveloped in 1946, In 1973, part of the subject property apparently was part of a racetrack. A building appears on the subject property in 1988. In 1999, the building was torn down and another building in approximate alignment with the current building on the subject property apparently was present.

2.4 ADJACENT PROPERTY USE

Areas surrounding the subject property were primarily used for commercial or residential purposes according to all historical documentation reviewed. Current uses of the surrounding area are commercial and residential.

2.5 SUMMARY OF PREVIOUS ASSESSMENTS

Tetra Tech START conducted a Phase I TBA of the subject property in March 2017, identifying the following REC to the subject property (Tetra Tech 2017a):

> According to the key site manager, a racetrack was present on the subject property during the 1970s. Vehicle repair and maintenance also took place at this time on the subject property. Based on the topographic map, the subject property appears to have been part of a race track in 1973. Based on potential for contamination associated with former vehicle maintenance operations, historical use of the subject property as a racetrack poses a REC to the subject property.

Based on results of the Phase I ESA, Tetra Tech recommended sampling soil and groundwater to determine if contamination is present on the subject property from the former racetrack and vehicle maintenance operations.

3.0 PHASE II TARGETED BROWNFIELDS ASSESSMENT ACTIVITIES

The following subsections describe the scope, field exploration, and methods implemented during the Phase II TBA. START members Kaitlyn Mitchell and Megan Sawyer conducted soil and groundwater sampling during June 20 and 21, 2017. Ms. Mitchell returned to the subject property on May 22 and 23, 2018, to collect additional subsurface soil samples. Photographs taken to document Phase II TBA field activities are in Appendix B. Phase II TBA activities were recorded in a site logbook, a copy of which is included as Appendix C.

3.1 SCOPE OF THE ASSESSMENT

START conducted environmental sampling to determine if soil and groundwater had been contaminated by current or historical activities at the subject property. Sampling accorded with the Quality Assurance Project Plan (QAPP) approved by EPA on May 10, 2017 (Tetra Tech 2017b) and the QAPP addendum approved by EPA on April 24, 2018 (Tetra Tech 2018).

3.1.1 Sampling Plan

The proposed sampling scheme for this project incorporated a combination of biased and judgmental sampling and definitive laboratory analysis, in accordance with procedures included in the *Guidance for Performing Site Inspections under CERCLA*, Office of Solid Waste and Emergency Response (OSWER) Directive #9345.1-05, September 1992. All samples were submitted for analysis to an off-site laboratory subcontracted by START. Objectives of soil and groundwater sampling were to characterize possible releases to the environment. Appendix A, Figure 3 depicts sampling locations at the subject property. Proposed sampling at the subject property during the June 2017 sampling event was as follows:

- Four Geoprobe soil borings advanced to 15 feet below ground surface (bgs) at locations on the subject property. Collect one soil samples from each boring from the 2-foot interval between 0 to 15 feet bgs based on evidence of soil staining or results of field screening by use of a photoionization detector (PID).
- Collect approximately four surface soil samples within 0-6 inches bgs at locations where building foundations were identified on the subject property.
- Collect a groundwater sample at each soil boring location (four total).

Proposed sampling at the subject property during the May 2018 sampling event was as follows:

> Advance Geoprobe soil borings to 16 feet bgs at 10 locations on the subject property. Collect four samples at each boring location at each of the following depths: within 0 to 2 feet bgs, at 4 feet bgs, at 9 feet bgs, and at 14 feet bgs.

3.1.2 Chemical Testing Plan

Laboratory analyses for chemical parameters were selected based on potential contaminants associated with current and historical uses of the subject property. Soil samples were submitted to ALS Environmental Services, Inc., (ALS) of Holland, Michigan. During the June 2017 sampling event, the samples were submitted for analyses for the following parameters: volatile organic compounds (VOC) in accordance with EPA Methods 5035/8260, and total petroleum hydrocarbons (TPH) – gasoline range organics (GRO) in accordance with EPA Methods 5035/8015; semivolatile organic compounds (SVOC) in accordance with EPA Method 8270, and TPH – diesel-range organics (DRO) and TPH – oil-range organics (ORO) in accordance with EPA Method 8015; and Resource Conservation and Recovery Act (RCRA) metals including mercury in accordance with EPA Methods 6010/7471. The surface soil samples were submitted to ALS for analyses for RCRA Metals including mercury (via EPA Methods 6010/7471) and asbestos (via EPA 600/R-93/116).

During the May 2018 sampling event, samples collected at 4 feet bgs at each boring location (10 total) were submitted for analyses for VOCs in accordance with EPA Methods 5035/8260, TPH-GRO in accordance with EPA Methods 5035/8015, SVOCs in accordance with EPA Method 8270, and TPH-DRO/ORO in accordance with EPA Method 8015. Samples collected at all depths (all 40 samples) were submitted for analysis for RCRA metals including mercury (via EPA Methods 6010/7471).

3.1.3 Deviations from the QAPP

The following deviations from the QAPP occurred during Phase II TBA activities:

During the May 2017 sampling event, DPT borings were advanced to 32 feet bgs instead of 15 feet bgs at SB-2 and SB-4 (lowest points on the property) to attempt to reach groundwater. Soil samples were collected only to 16 feet bgs at those boring locations. No asbestos-containing building materials (ACBM) or paint was identified in soils surrounding the building foundations; therefore, only two samples were collected. Additionally, no groundwater was encountered at any boring location; therefore, no groundwater samples were collected as part of this Phase II TBA.

No deviations were noted during the June 2018 sampling event.

3.2 FIELD EXPLORATION AND METHODS

Field activities at the subject property occurred on June 20 and 21, 2017, and on May 22 and 23, 2018. Samples were delivered to ALS in Holland, Michigan on June 22, 2017, and May 24, 2018. The sections below summarize soil sample collection. Sampling locations are depicted on Figure 3, Appendix A.

3.2.1 Subsurface Soil Sampling

During the June 2017 sampling event, soil samples were collected at four boring locations to maximum depth of 16 feet bgs (see Appendix A, Figure 3). Each borehole was advanced by use of a Geoprobe 4-foot-long Macro-Core® sampler fitted with a disposable polyvinyl chloride (PVC) liner. Soil samples were collected in accordance with Region 7 EPA Standard Operating Procedure (SOP) 4230.07: Geoprobe operations. A hand-held PID was used to screen each 4-foot core interval for volatile organics, and a sample was collected from the interval inducing the highest PID readings or showing other evidence of contamination. If no elevated PID readings or other signs of contamination were noted, a sample was collected from the base of the boring. Each sample for laboratory analysis included a grab sample for analyses for VOCs and TPH-GRO collected in accordance with EPA SW 846 Method 5035, and consisted of two 5-gram soil aliquots in separate 40-millililter (mL) vials preserved with sodium bisulfate, and two 5-gram soil aliquots in separate 40-mL vials preserved with methanol. After collection of the grab samples, the remaining soil from each sample interval was placed in a disposable aluminum pie pan for homogenization, and then transferred to 8-ounce jars for analyses for TPH-DRO/ORO, SVOCs, and RCRA metals including mercury. Pertinent data, including PID readings and sample locations, were recorded in the field log book (see Appendix C). All soil samples were stored in coolers maintained at or below 4 degrees Celsius (°C).

During the May 2018 sampling event, soil samples were collected at 10 boring locations to maximum depth of 16 feet bgs (see Appendix A, Figure 3). Each borehole was advanced by use of a Geoprobe 4-foot-long Macro-Core sampler fitted with a disposable PVC liner. Soil samples were collected in accordance with Region 7 EPA SOP 4230.07: Geoprobe operations. Grab samples were collected within 0 to 2 feet bgs, at 4 feet bgs, at 9 feet bgs, and at 14 feet bgs for laboratory analysis for RCRA metals including mercury; each sample was placed in a disposable aluminum pie pan for homogenization, and then transferred to 8-ounce jars. Also collected at 4 feet bgs at each boring location, in accordance with EPA SW 846 Method 5035, was a grab sample for analyses for VOCs and TPH-GRO consisting of two 5-gram soil aliquots in separate 40-mL vials preserved with sodium bisulfate, and two 5-gram soil aliquots in separate 40-mL vials preserved with methanol. After collection of grab samples, remaining

soil from each sample interval was placed in a disposable aluminum pie pan for homogenization, and then transferred to 8-ounce jars for analyses for TPH-DRO/ORO and SVOCs.

Pertinent data, including sample locations and times, were recorded in the field log book (see Appendix C). All soil samples were stored in coolers maintained at or below 4 degrees Celsius (°C).

3.2.2 Surface Soil Sampling

During the June 2017 sampling event, two surface soil samples (SS-1 and SS-2) were collected within 0 to 6 inches bgs around the building foundation on the eastern portion of the subject property (see Appendix A, Figure 3). The samples were analyzed for RCRA metals including mercury, and for asbestos to determine if the soil had been impacted by asbestos or lead-based paint from demolition of the previously present building. Soil samples for analyses for RCRA metals and asbestos were placed in a disposable aluminum pie pan for homogenization, and then transferred to 8-ounce jars. Sample containers were labeled and placed into iced coolers. All soil samples were stored in coolers maintained at or below a temperature of 4 ºC until submittal to the subcontracted laboratory.

3.2.3 Groundwater Sampling

During the June 2017 sampling event, groundwater was not encountered at any boring location on the subject property; therefore, no groundwater samples were collected.

3.2.4 Quality Control Sampling

Field quality control (QC) sampling during the June 2017 investigation included one laboratory-supplied aqueous trip blank. The aqueous trip blank was analyzed by ALS for VOCs. Analytical data from the trip blank was referenced to determine whether contamination had been introduced during transportation of the containers and samples.

Field QC sampling during the May 2018 investigation included one equipment rinsate blank sample to evaluate effectiveness of procedures to decontaminate Geoprobe soil sampling equipment. The rinsate blank was analyzed for VOCs in accordance with EPA Methods 5035/8260, TPH-GRO in accordance with EPA Methods 5035/8015, SVOCs in accordance with EPA Method 8270, TPH-DRO/ORO in accordance with EPA Method 8015, and RCRA metals including mercury in accordance with EPA Methods 6010/7471.

4.0 PRESENTATION AND EVALUATION OF RESULTS

The following sections present analytical data from soil samples collected during the Phase II TBA. Soil sample results from this TBA were compared to EPA Regional Screening Levels (RSL) (EPA 2016b), the Nebraska Department of Environmental Quality (NDEQ) Risk-Based Corrective Action (RBCA) at Petroleum Release Sites (NDEQ 2009), and NDEQ Voluntary Cleanup Program (VCP) Remediation Goals (RG) for Soil (NDEQ 2012) for both residential and industrial soils. Results for total metals in soil were also compared to USGS-reported mean background concentrations in Knox County, Nebraska (USGS 2018). Copies of analytical data packages and data validation reports are in Appendix D. Analytical data are compared to screening values in Appendix E, Tables E-1 through E-4.

4.1 SOIL SAMPLES

During the June 2017 sampling event, four soil samples were collected from four soil borings to assess impacts on soil from possible releases related to historical uses of the subject property. Soil samples were submitted to ALS for analyses for VOCs, SVOCs, TPH-GRO, TPH-DRO, TPH-ORO, and RCRA metals including mercury. Two surface soil samples were also collected around the building foundation. These surface soils samples were analyzed for RCRA metals including mercury, and for asbestos.

Analytical results indicated that no VOC analyte concentration in any sample exceeded an EPA RSL or NDEQ VCP RGs for residential or industrial standards. VOCs data are summarized in Appendix E, Table E-1.

Analytical results indicated that no SVOC analyte concentration in any sample exceeded an EPA RSL or NDEQ VCP RGs for residential or industrial standards. SVOCs data are summarized in Appendix E, Table E-2.

Analytical results indicated that all samples contained low levels of TPH-DRO and TPH-ORO. All TPH concentrations were below their respective soil standards. TPH data are summarized in Appendix E, Table E-3.

Arsenic concentrations in all samples exceeded the 0.68 milligrams per kilogram (mg/kg) EPA RSL for residential soil and the 3.0 mg/kg EPA RSL for industrial soil. Arsenic concentrations in surface soil ranged from 5.75 to 6.31 mg/kg, and in subsurface soil, from 7.98 to 121 mg/kg. The USGS-determined average concentration of arsenic in Knox County is 6.5 mg/kg, with a range of 1.87 to 14.48 mg/kg (USGS 2018). Arsenic concentrations in SB-2 from 14-16 feet bgs (78.6 mg/kg) and SB-4 from 14 to 16 feet bgs (121 mg/kg) were outside of the USGS-determined range for arsenic. No other metal

concentration was detected above a screening level. Metals data are summarized in Table E-4 of Appendix E.

In neither of the two surface soil samples was asbestos detected; therefore, a data table of asbestos results was not included in Appendix E. A copy of the laboratory data package is in Appendix D.

During the May 2018 sampling event, 40 subsurface soil samples were collected at 10 locations across the northern half of the subject property to further characterize possibly present contamination at the site. One sample was collected at each of the following depths within each boring (four samples from each boring): within 0 to 2 feet bgs, at 4 feet bgs, at 9 feet bgs, and at 14 feet bgs. The samples collected at 4 feet bgs from each boring (10 total) were submitted to ALS for analyses for VOCs, SVOCs, TPH-GRO, TPH-DRO, and TPH-ORO. Samples collected at all depths (all 40 samples) were submitted to ALS for analysis for RCRA metals including mercury.

Analytical results indicated that in no sample did a VOC concentration exceed an EPA RSL or NDEQ VCP RGs for residential or industrial standards. VOCs data are summarized in Appendix E, Table E-1.

Analytical results indicated that in no sample did an SVOC concentration exceed an EPA RSL or NDEQ VCP RGs for residential or industrial standards. SVOCs data are summarized in Appendix E, Table E-2.

Analytical results indicated that all samples contained low levels of TPH-DRO and TPH-ORO. All TPH concentrations were below their respective soil standards. TPH data are summarized in Appendix E, Table E-3.

Arsenic concentrations in all samples exceeded the 0.68 mg/kg EPA RSL for residential soil—and in all samples except for SB-1 (4), SB-4 (9), SB-9 (9), and SB-10 (4) exceeded the 3.0 mg/kg EPA RSL for industrial soil. Arsenic concentrations in subsurface soil ranged from 2.0 to 70.0 mg/kg. The USGS-determined average concentration of arsenic in surface soils in Knox County is 6.5 mg/kg, with a range of 1.87 to 14.48 mg/kg (USGS 2018). Arsenic concentrations in SB-1 (9) (50.0 mg/kg), SB-1 (14) (18.0 mg/kg), SB-3 (4) (16.0 mg/kg), SB-4 (4) (17.0 mg/kg), SB-5 (9) (21 mg/kg), SB-5 (14) (70.0 mg/kg), SB-7 (4) (20.0 mg/kg), and SB-9 (4) (17 mg/kg) were outside of the USGS-determined range for arsenic.

During the June 2017 sampling event, surface soil samples (0-0.5 ft bgs) had arsenic concentrations ranging from 5.75 to 6.31 mg/kg with an average concentration of 6.03 mg/kg and subsurface soil samples (14-16 ft bgs) had arsenic concentrations ranging from 7.98 to 121 mg/kg with an average concentration of 54.62 mg/kg.

During the May 2018 sampling event, samples collected from 0-2 ft bgs had arsenic concentrations ranging from 4.6 to 9.2 mg/kg with an average concentration of 7.3 mg/kg. Samples collected from 4 ft bgs had arsenic concentrations ranging from 2 to 20 mg/kg with an average concentration of 9 mg/kg. Samples collected from 9 ft bgs had arsenic concentrations ranging from 2 to 50 mg/kg with an average concentration of 12.2 mg/kg. Samples collected from 14 ft bgs had arsenic concentrations ranging from 3.8 to 70 mg/kg with an average concentration of 14.4 mg/kg.

No other metal concentration was detected above a screening level. Metals data are summarized in Table E-4 of Appendix E.

4.2 QUALITY CONTROL SAMPLES

During the June 2017 sampling event, one trip blank was included to determine whether contamination had been introduced during transportation of containers and samples. The trip blank was analyzed for VOCs.

Carbon disulfide was detected in the water trip blank at 1.4 J µg/L (J denotes an estimated value). Carbon disulfide was not identified in any of the samples collected during this investigation.

No additional detections occurred in the QC sample.

During May 2018 sampling event, one equipment rinsate blank was collected to evaluate effectiveness of procedures to decontaminate Geoprobe soil sampling equipment. Deionized water was poured through the Geoprobe macro core sampler rods into sample containers. Low levels of metals and bis (2-ethylhexyl)phthalate were detected in the rinsate blank sample. These detections in the rinsate sample are not thought to impact the usability of soil sample results because all soil samples were collected within dedicated PVC liners.

5.0 DISCUSSION OF FINDINGS AND CONCLUSIONS

This section summarizes findings and offers conclusions regarding the Phase II TBA field activities. A property profile form for the subject property is in Appendix F.

5.1 RECOGNIZED ENVIRONMENTAL CONDITIONS

Based on soil metals concentrations, elevated levels of arsenic are present in subsurface soils within 4 to 14 feet bgs on the northern portion of the subject property. Arsenic levels are above EPA RSLs and NDEQ VCP RGs for residential and industrial soils. According to a 2003 USGS study, naturally occurring arsenic can be found in deposits of the Cretaceous-aged Niobrara Formation and Carlile Shale of the Colorado Group that underlie the Niobrara National Scenic River area (USGS 2003).

5.2 AFFECTED MEDIA

Based on sampling during the Phase II TBA, elevated arsenic levels are present sporadically in subsurface soils on the northern portion of the subject property. It is unlikely that the historic uses of the subject property would cause elevated arsenic levels at these depths. Distribution of arsenic in the soils show increasing concentrations with depth. Spill or past disposal of product or waste at the property would show higher concentrations at the surface with decreasing concentrations at depth. Additionally, naturally occurring arsenic has been found in the region. According to Allison Gienapp, Ponca Tribe, future use of the subject property will depend on results of this investigation. One option is a pollinator garden. Arsenic concentrations in surface soils (0-2 feet below ground surface [bgs]) ranged from 5.75 to 6.31 milligrams per kilogram (mg/kg) which were below the United States Geological Survey (USGS) background concentration. The USGS-determined average concentration of arsenic in surface soils in Knox County is 6.5 mg/kg, with a range of 1.87 to 14.48 mg/kg. No further investigation or remediation is recommended at the subject property. However, if a potable water well were to be installed at the subject property in the future, it is recommended that the water be sampled to ensure that arsenic has not contaminated drinking water.

6.0 REFERENCES

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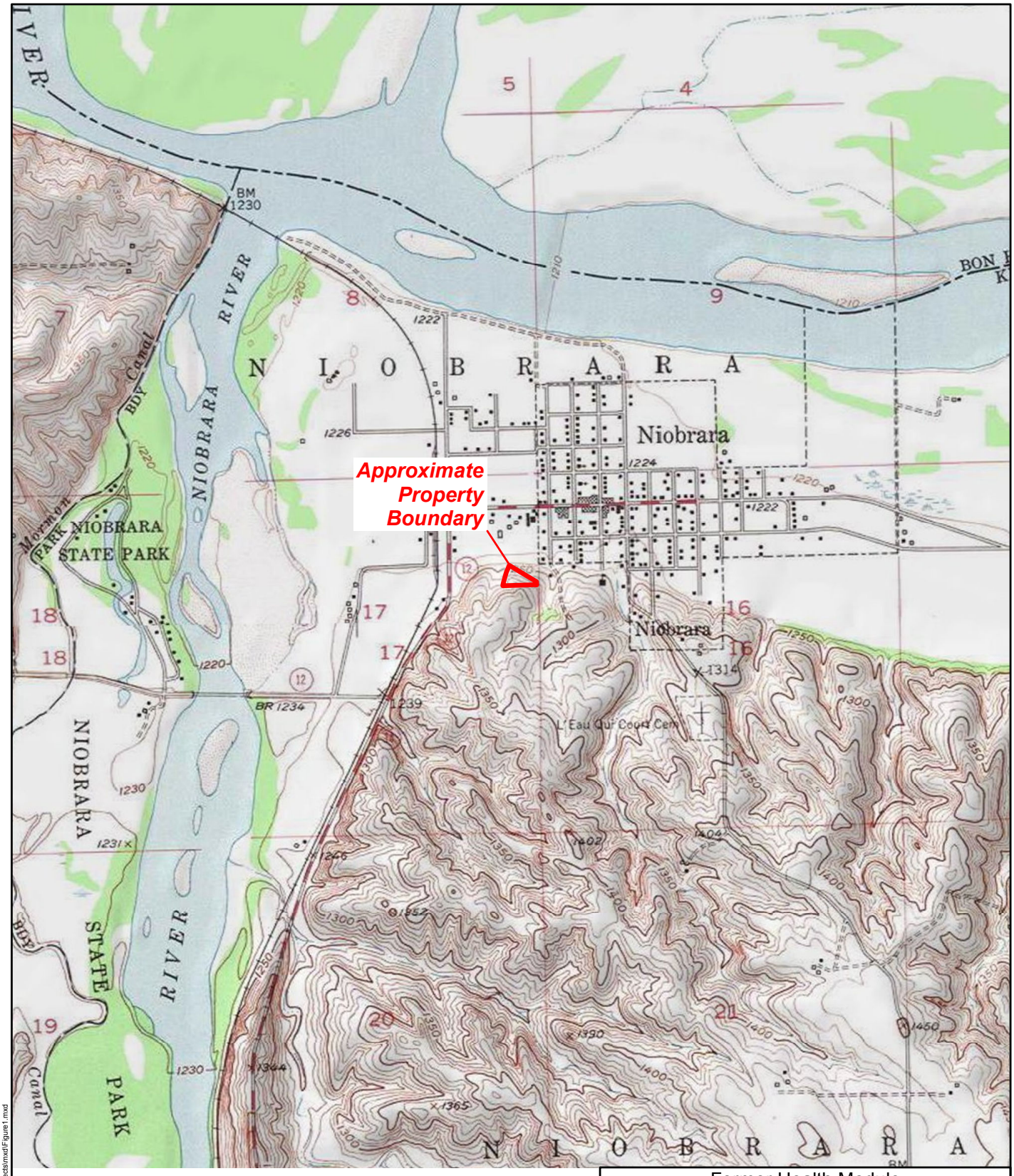
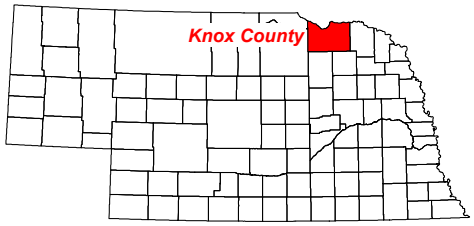
APPENDIX A

FIGURES





N

0 1,000 2,000

Feet

Source: Niobrara, Nebraska USGS 7.5 Minute Topo Quad, 1959; Verdigre, Nebraska USGS 7.5 Minute Topo Quad, 1959.

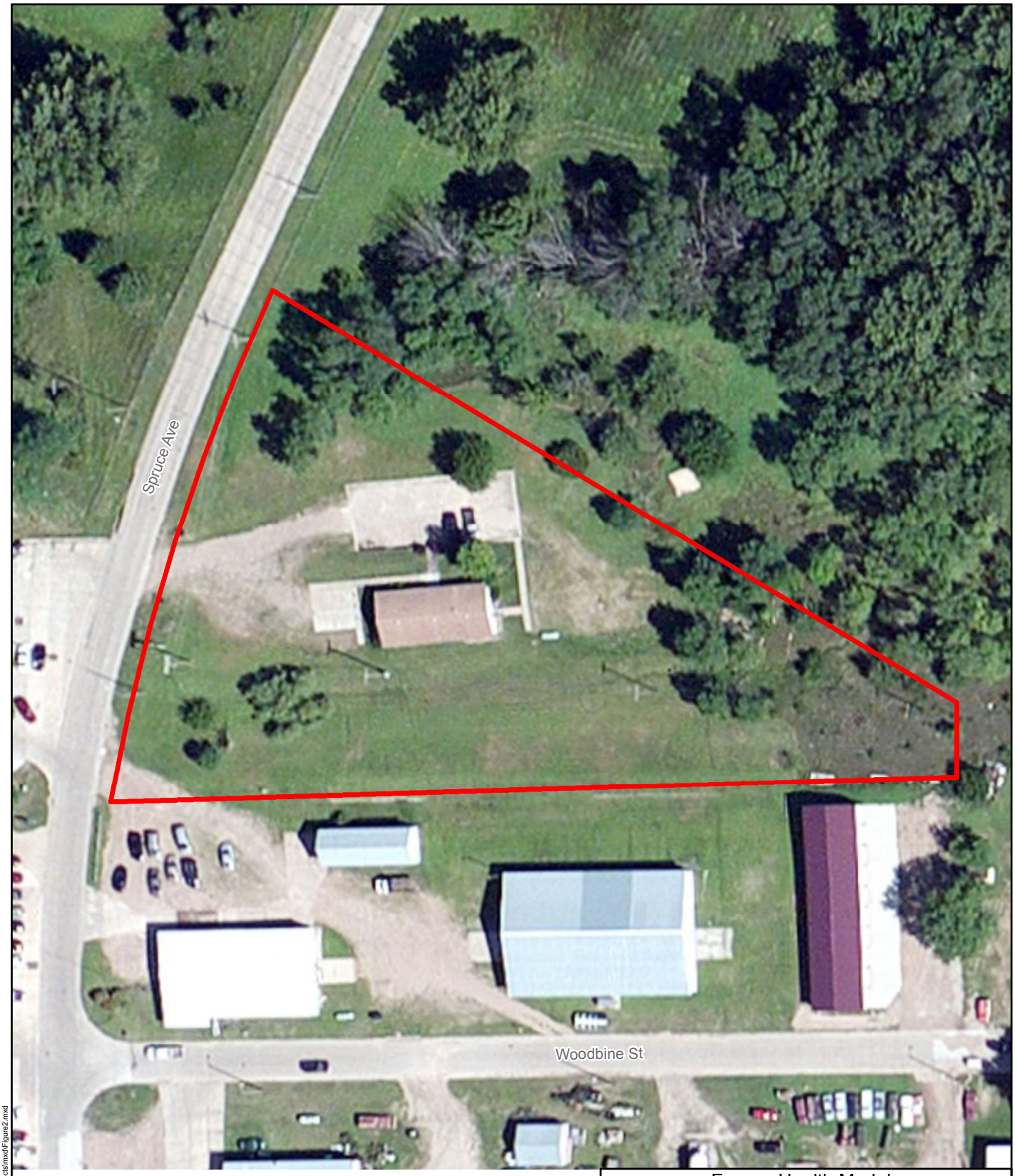
Former Health Module
249 Spruce Avenue
Niobrara, NE

Figure 1
Site Location Map

TETRA TECH

Date: 3/22/2017 Drawn By: Nick Wiederholt Project No: X9025.14.0002.019.024

X:\GIS\9025\0002\019\024\Ponca_Tribal_Headquarters\Projects\mxd\Figure1.mxd



Legend

Approximate property boundary

N

0 40 80

Feet

Source: The source of this map image is Esri, used by EPA with Esri's permission.

Former Health Module
249 Spruce Avenue
Niobrara, NE

Figure 2
Site Layout Map

TETRA TECH

Date: 3/22/2017 Drawn By: Nick Wiederholt Project No: X9025.14.0002.019.024

X:\GIS\9025\0002\019\024\Ponca_Tribal_Headquarters\Projects\mxd\Figure2.mxd

Legend

- DPT soil sample location, June 2017
- DPT soil sample location, May 2018
- Surface soil sample location, June 2017
- Approximate property boundary
- DPT Direct push technology

N

0 40 80

Feet

Source: The source of this map image is Esri, used by EPA with Esri's permission.

Former Health Module
249 Spruce Avenue
Niobrara, NE

Figure 3
Sample Location Map

TETRA TECH

Date: 6/27/2018 Drawn By: Nick Wiederholt Project No: X9025.14.0002.019.024

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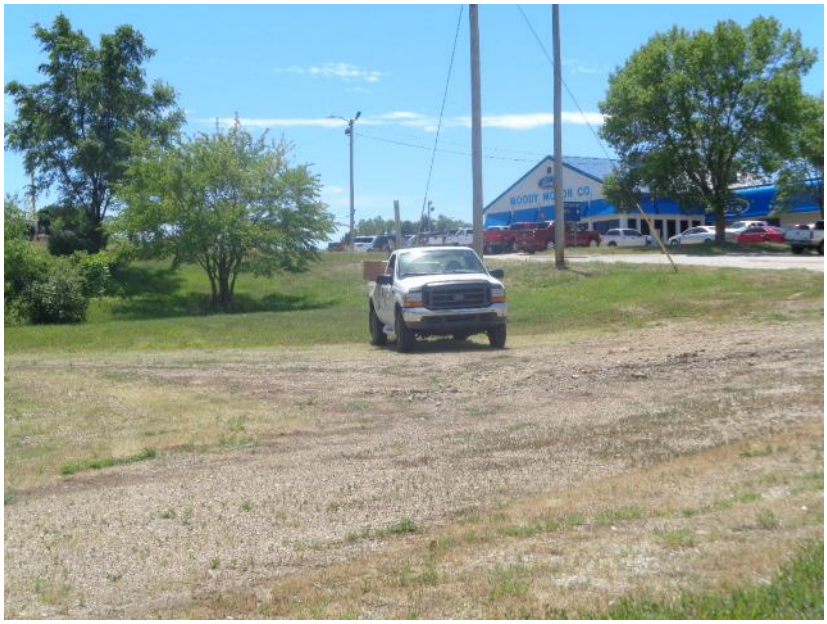
APPENDIX B

PHOTOGRAPHIC DOCUMENTATION

Former Health Module
Niobrara, Nebraska



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: South	DESCRIPTION	This photograph shows the location of the sample boring at SB-1.	1
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: NA	DESCRIPTION	This photograph shows soil borings from 0-4 feet below ground surface (bgs) at SB-1.	2
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows soil borings from 4-8 feet bgs at SB-1.	3
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows soil borings from 8-12 feet bgs at SB-1.	4
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

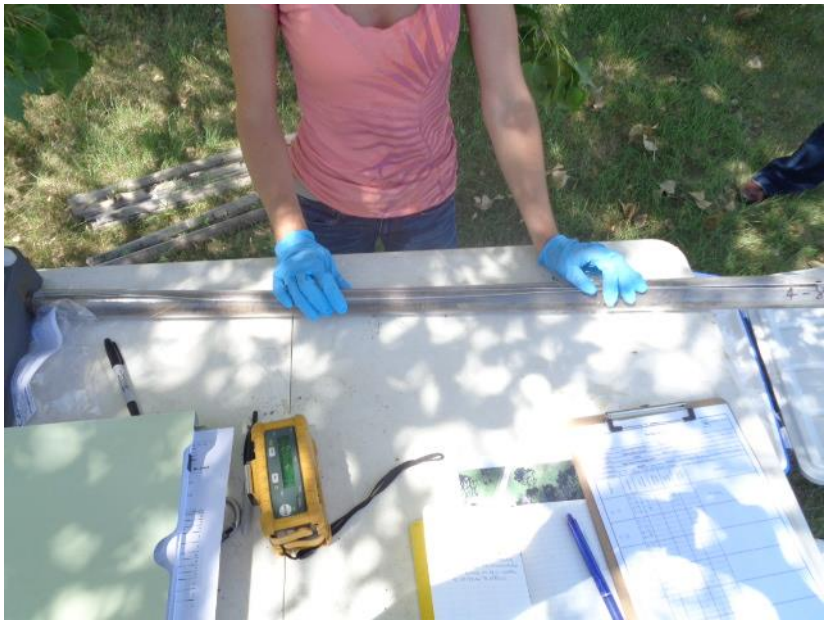
Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows soil borings from 12-16 feet bgs at SB-1.	5
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows location SB-2.	6
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
Direction: East	PHOTOGRAPHER	Kaitlyn Mitchell	

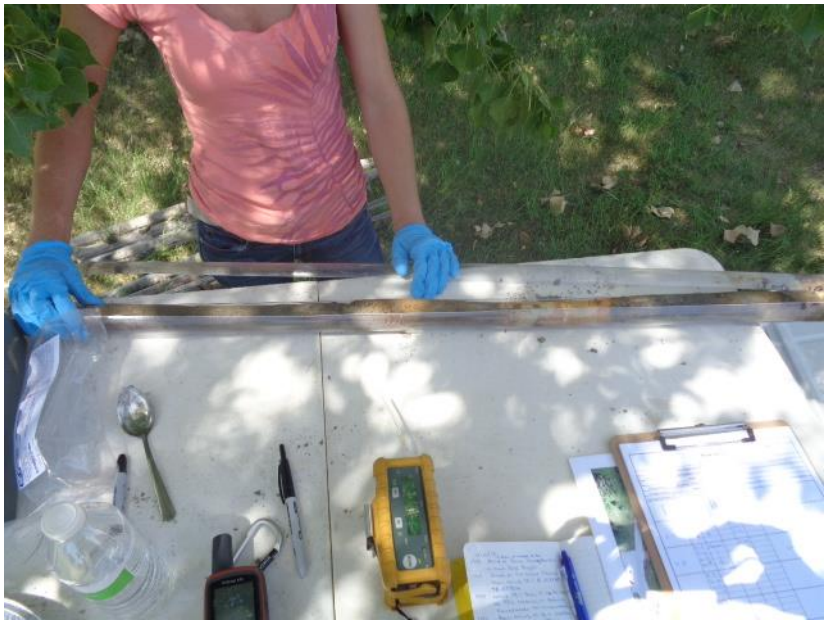
Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: NA	DESCRIPTION	This photograph shows soil borings from 0-4 feet bgs at SB-2.	7
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
	PHOTOGRAPHER	Kaitlyn Mitchell	



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: NA	DESCRIPTION	This photograph shows soil borings from 4-8 feet bgs at SB-2.	8
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska



TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: NA	DESCRIPTION	This photograph shows soil borings from 8-12 feet bgs at SB-2.	9
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: NA	DESCRIPTION	This photograph shows soil borings from 12-16 feet bgs at SB-2.	10
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: NA	DESCRIPTION	This photograph shows the location of surface soil samples SS-1 and SS-2.	11
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: South	DESCRIPTION	This photograph shows location SB-3.	12
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: NA	DESCRIPTION	This photograph shows soil borings from 0-4 feet bgs at SB-3.	13
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: NA	DESCRIPTION	This photograph shows soil borings from 4-8 feet bgs at SB-3.	14
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: NA	DESCRIPTION	This photograph shows soil borings from 8-12 feet bgs at SB-3.	15
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: NA	DESCRIPTION	This photograph shows soil borings from 12-16 feet bgs at SB-3.	16
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
	PHOTOGRAPHER	Kaitlyn Mitchell	

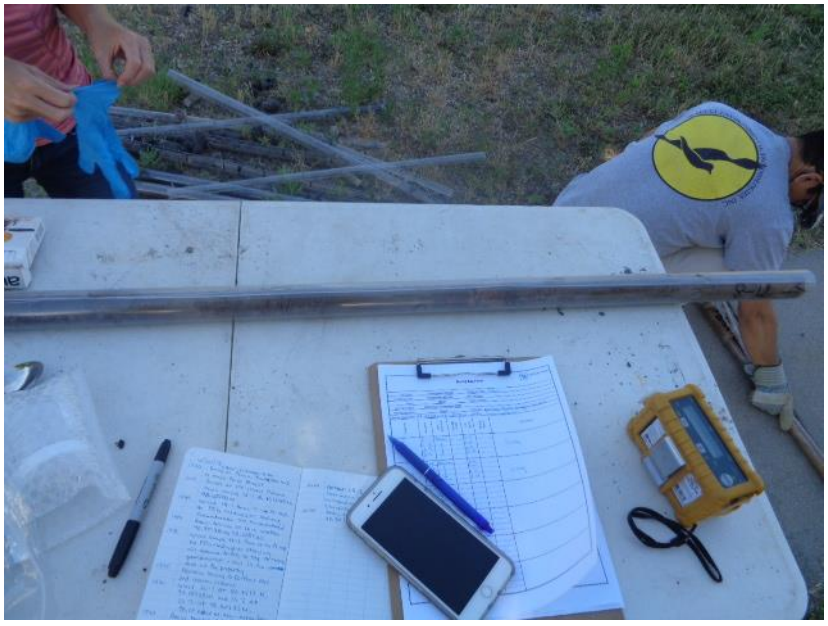
Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows SB-4.	17
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
Direction: Northeast	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows soil borings from 0-4 feet bgs at SB-4.	18
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

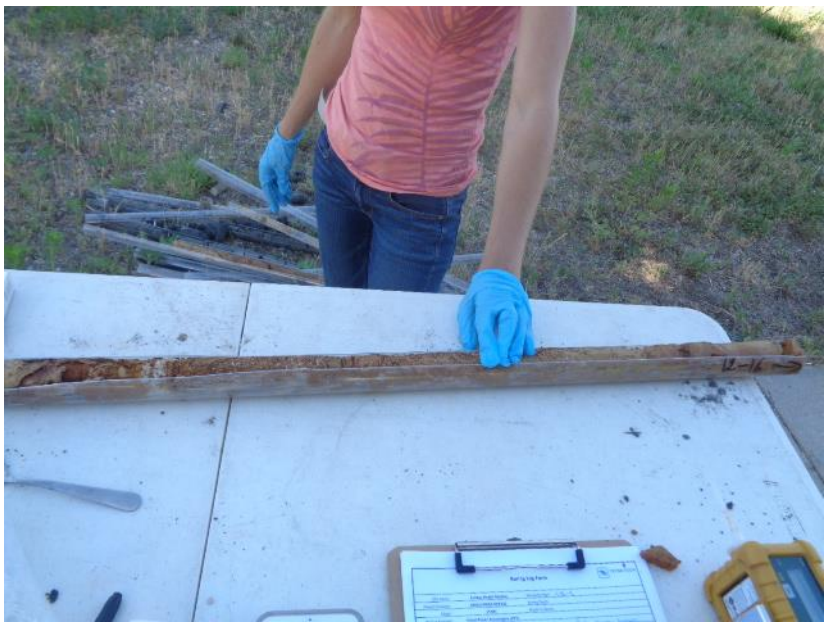
Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows soil borings from 4-8 feet bgs at SB-4.	19
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	



TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows soil borings from 8-12 feet bgs at SB-4.	20
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska



TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows soil borings from 12-16 feet bgs at SB-4.	21
	CLIENT	Environmental Protection Agency – Region 7	Date 6/20/2017
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows SB-1.	22
	CLIENT	Environmental Protection Agency – Region 7	Date 5/22/2018
Direction: West	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows sample SB-1 (0-2).	23
	CLIENT	Environmental Protection Agency – Region 7	Date 5/22/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows sample SB-1 (4).	24
	CLIENT	Environmental Protection Agency – Region 7	Date 5/22/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-1 (9) and SB-1 (14).	25
	CLIENT	Environmental Protection Agency – Region 7	Date 5/22/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows SB-2.	26
	CLIENT	Environmental Protection Agency – Region 7	Date 5/22/2018
Direction: East	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-2 (0-2), SB-2 (4), SB-2 (9), and SB-2 (14).	27
	CLIENT	Environmental Protection Agency – Region 7	Date 5/22/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows SB-3.	28
	CLIENT	Environmental Protection Agency – Region 7	Date 5/22/2018
Direction: East	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: NA	DESCRIPTION	This photograph shows samples SB-3 (0-2), SB-3 (4), SB-3 (9), and SB-3 (14).	29
	CLIENT	Environmental Protection Agency – Region 7	Date 5/22/2018
	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024 Direction: North	DESCRIPTION	This photograph shows SB-4.	30
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-4 (0-2) and SB-4 (4).	31
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-4 (9) and SB-4 (14).	32
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows SB-5.	33
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: East	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-5 (0-2) and SB-5 (4).	34
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-5 (9) and SB-5 (14).	35
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows SB-6.	36
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: East	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-6 (0-2) and SB-6 (4).	37
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-6 (9) and SB-6 (14).	38
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows SB-7	39
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: Southeast	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-7 (0-2) and SB-7 (4).	40
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

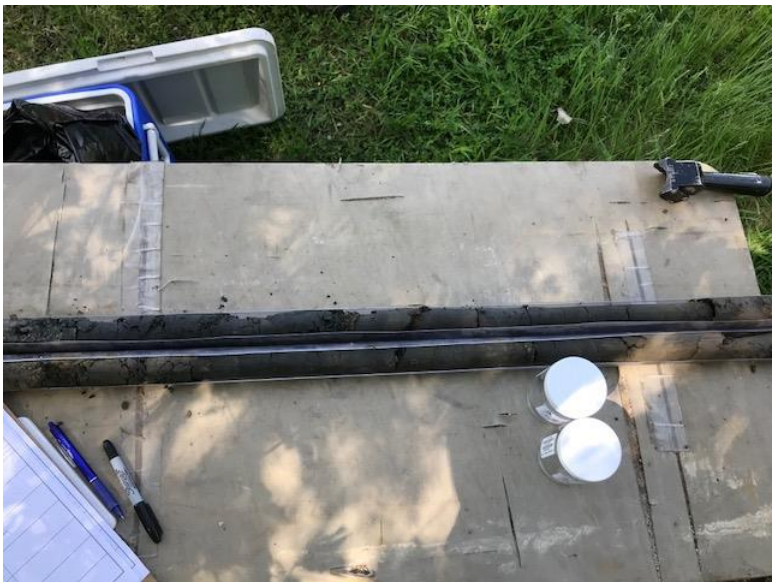
Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-7 (9) and SB-7 (14).	41
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows SB-8.	42
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: Southwest	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-8 (0-2) and SB-8 (4).	43
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	



TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-8 (9) and SB-8 (14).	44
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows SB-9.	45
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: Southwest	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-9 (0-2) and SB-9 (4).	46
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-9 (9) and SB-9 (14).	47
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows SB-10.	48
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: Southwest	PHOTOGRAPHER	Kaitlyn Mitchell	

Former Health Module
Niobrara, Nebraska

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-10 (0-2) and SB-10 (4).	49
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

TETRA TECH PROJECT NO. X9025.14.0002.019024	DESCRIPTION	This photograph shows samples SB-10 (9) and SB-10 (14).	50
	CLIENT	Environmental Protection Agency – Region 7	Date 5/23/2018
Direction: NA	PHOTOGRAPHER	Kaitlyn Mitchell	

APPENDIX C

SITE LOGBOOK

Boring Log Form

TETRA TECH

Site Name:	Former Health Module	**Boring Number**	SB-1
Project Number:	X9025140002.019.024	**Boring Depth**	16 feet bgs
Client:	START	**Depth to Water**	Not encountered
Drilling Method:	Direct-Push Technologies (DPT)		
Drilling Company:	Seagull	**Geologist**	Kaitlyn Mitchell, Megan Sawyer
Boring Coordinates:	42.75169N, 98.03378W	**Weather**	Sunny, warm

Depth (ft)	Recovery	Color (Munsell)	Lithology (USCS)	PID (ppm)	Sample Interval	Description
0-1		Dark Brown	Silty Clay	0.00		
1-2		Dark Brown	Silty Clay	0.00		
2-3		Dark Brown	Silty Clay	0.00		
3-4		Dark Brown	Silty Clay	0.00		
4-5		Dark Brown	Silty Clay	0.00		
5-6		Dark Brown	Silty Clay	0.00		
6-7		Dark Brown	Silty Clay	0.00		
7-8		Dark Brown	Silty Clay	0.00		
8-9		Dark Brown	Silty Clay	0.00		
9-10		Dark Brown	Silty Clay	0.00		
10-11		Dark Brown	Silty Clay	0.00		
11-12		Dark Brown	Silty Clay	0.00		
12-13		Dark Brown	Silty Clay	0.00		
13-14		Dark Brown	Silty Clay	0.00		
14-15		Dark Brown	Silty Clay	0.00		
15-16		Dark Brown	Silty Clay	0.00	14-16 ft	

Boring Log Form

TETRA TECH

Site Name:	Former Health Module	**Boring Number**	SB-2
Project Number:	X9025140002.019.024	**Boring Depth**	16 feet bgs
Client:	START	**Depth to Water**	Not encountered
Drilling Method:	Direct-Push Technologies (DPT)		
Drilling Company:	Seagull	**Geologist**	Kaitlyn Mitchell, Megan Sawyer
Boring Coordinates:	42.75198N, 98.03334W	**Weather**	Sunny, warm

Depth (ft)	Recovery	Color (Munsell)	Lithology (USCS)	PID (ppm)	Sample Interval	Description
0-1		Brown	Silty Clay	0.00		
1-2		Brown	Silty Clay	0.00		
2-3		Brown	Silty Clay	0.00		
3-4		Brown	Silty Clay	0.00		
4-5		Brown	Clay	0.00		
5-6		Brown	Clay	0.00		
6-7		Brown	Clay	0.00		
7-8		Brown	Clay	0.00		
8-9		Brown	Clay	0.00		
9-10		Brown	Clay	0.00		
10-11		Red/Orange	Clay	0.00		
11-12		Red/Orange	Clay	0.00		
12-13		Dark Brown	Silty Clay	0.00		
13-14		Dark Brown	Silty Clay	0.00		
14-15		Brown	Clay	0.00		
15-16		Brown	Clay	0.00	14-16 ft	

Boring Log Form

TETRA TECH

Site Name:	Former Health Module	**Boring Number**	SB-3
Project Number:	X9025140002.019.024	**Boring Depth**	16 feet bgs
Client:	START	**Depth to Water**	Not encountered
Drilling Method:	Direct-Push Technologies (DPT)		
Drilling Company:	Seagull	**Geologist**	Kaitlyn Mitchell, Megan Sawyer
Boring Coordinates:	42.75163N, 98.03276W	**Weather**	Sunny, warm

Depth (ft)	Recovery	Color (Munsell)	Lithology (USCS)	PID (ppm)	Sample Interval	Description
0-1		Dark Brown	Silty Clay	0.00		
1-2		Dark Brown	Silty Clay	0.00		
2-3		Dark Brown	Silty Clay	0.00		
3-4		Dark Brown	Silty Clay	0.00		
4-5		Dark Brown	Silty Clay	0.00		
5-6		Dark Brown	Silty Clay	0.00		
6-7		Dark Brown	Silty Clay	0.00		
7-8		Dark Brown	Silty Clay	0.00		
8-9		Dark Brown	Clay	0.00		
9-10		Dark Brown	Clay	0.00		
10-11		Dark Brown	Clay	0.00		
11-12		Dark Brown	Clay	0.00		
12-13		Black	Clay	0.00		
13-14		Black	Clay	0.00		
14-15		Black	Clay	0.00		
15-16		Black	Clay	0.00	14-16 ft	

Boring Log Form

TETRA TECH

Site Name:	Former Health Module	**Boring Number**	SB-4
Project Number:	X9025140002.019.024	**Boring Depth**	16 feet bgs
Client:	START	**Depth to Water**	Not encountered
Drilling Method:	Direct-Push Technologies (DPT)		
Drilling Company:	Seagull	**Geologist**	Kaitlyn Mitchell, Megan Sawyer
Boring Coordinates:	42.75198N, 98.03294W	**Weather**	Sunny, warm

Depth (ft)	Recovery	Color (Munsell)	Lithology (USCS)	PID (ppm)	Sample Interval	Description
0-1		Brown	Silty	0.00		
1-2		Brown	Silty	0.00		
2-3		Brown	Silty	0.00		
3-4		Brown	Silty	0.00		
4-5		Brown	Silty	0.00		
5-6		Brown	Silty	0.00		
6-7		Brown	Silty	0.00		
7-8		Brown	Silty	0.00		
8-9		Brown	Silty	0.00		
9-10		Brown	Silty	0.00		
10-11		Brown	Silty	0.00		
11-12		Brown	Silty	0.00		
12-13		Brown	Clay	0.00		
13-14		Brown	Clay	0.00		
14-15		Tan	Clay	0.00		
15-16		Tan	Clay	0.00	14-16 ft	

Boring Log Form

Site Name:	Former Health Module	**Boring Number**	SB-1
Project Number:	X9025140002.019.024	**Boring Depth**	16 feet bgs
Client:	START	**Depth to Water**	Not encountered
Drilling Method:	Direct-Push Technologies (DPT)		
Drilling Company:	Seagull	**Geologist**	Kaitlyn Mitchell
Boring Coordinates:	42.751914N, 98.033653W	**Weather**	Sunny, warm

Depth (ft)	Recovery	Color (Munsell)	Lithology (USCS)	PID (ppm)	Sample Interval	Description
0-1		Brown	Clay	NA	0-2 ft	
1-2		Brown	Clay	NA		
2-3		Brown	Clay	NA		
3-4		Brown	Clay	NA		
4-5		Dark Brown	Clay	NA	4 ft	
5-6		Dark Brown	Clay	NA		
6-7		Dark Brown	Clay	NA		
7-8		Dark Brown	Clay	NA		
8-9		Dark Brown	Clay	NA		
9-10		Dark Brown	Clay	NA	9 ft	
10-11		Dark Brown	Clay	NA		
11-12		Dark Brown	Clay	NA		
12-13		Dark Brown	Clay	NA		
13-14		Grey/Orange	Clay	NA		
14-15		Dark Brown	Clay	NA	14 ft	
15-16		Dark Brown	Clay	NA		

Boring Log Form

TETRA TECH

Site Name:	Former Health Module	**Boring Number**	SB-2
Project Number:	X9025140002.019.024	**Boring Depth**	16 feet bgs
Client:	START	**Depth to Water**	Not encountered
Drilling Method:	Direct-Push Technologies (DPT)		
Drilling Company:	Seagull	**Geologist**	Kaitlyn Mitchell
Boring Coordinates:	42.751961N, 98.033458W	**Weather**	Sunny, warm

Depth (ft)	Recovery	Color (Munsell)	Lithology (USCS)	PID (ppm)	Sample Interval	Description
0-1		Brown	Silty Clay	NA	0-2 ft	
1-2		Brown	Silty Clay	NA		
2-3		Brown	Silty Clay	NA		
3-4		Brown	Silty Clay	NA		
4-5		Brown	Silty Clay	NA	4 ft	
5-6		Brown	Silty Clay	NA		
6-7		Brown	Silty Clay	NA		
7-8		Brown	Silty Clay	NA		
8-9		Dark Brown	Clay	NA		
9-10		Dark Brown	Clay	NA	9 ft	
10-11		Dark Brown	Clay	NA		
11-12		Brown/orange/ Tan/White	Clay	NA		
12-13		Dark Brown	Clay	NA		
13-14		Dark Brown	Clay	NA		
14-15		Dark Brown	Clay	NA	14 ft	
15-16		Orange/Brown/ White	Clay	NA		

Boring Log Form

TETRA TECH

Site Name:	Former Health Module	**Boring Number**	SB-3
Project Number:	X9025140002.019.024	**Boring Depth**	16 feet bgs
Client:	START	**Depth to Water**	Not encountered
Drilling Method:	Direct-Push Technologies (DPT)		
Drilling Company:	Seagull	**Geologist**	Kaitlyn Mitchell
Boring Coordinates:	42.751969N, 98.033378W	**Weather**	Sunny, warm

Depth (ft)	Recovery	Color (Munsell)	Lithology (USCS)	PID (ppm)	Sample Interval	Description
0-1		Brown	Silty Clay	NA	0-2 ft	
1-2		Brown	Silty Clay	NA		
2-3		Brown	Silty Clay	NA		
3-4		Brown	Silty Clay	NA		
4-5		Tan/Grey	Silty Clay	NA	4 ft	
5-6		Tan/Grey	Silty Clay	NA		
6-7		Grey	Silty Clay	NA		
7-8		Grey	Silty Clay	NA		
8-9		Dark Brown	Clay	NA		
9-10		Dark Brown	Clay	NA	9 ft	
10-11		Dark Brown	Clay	NA		
11-12		Orange/Brown/Tan	Clay	NA		
12-13		Dark Brown	Clay	NA		
13-14		Dark Brown/Orange	Clay	NA		
14-15		Dark Brown	Clay	NA	14 ft	
15-16		Dark Brown	Clay	NA		

Boring Log Form

TETRA TECH

Site Name:	Former Health Module	**Boring Number**	SB-4
Project Number:	X9025140002.019.024	**Boring Depth**	16 feet bgs
Client:	START	**Depth to Water**	Not encountered
Drilling Method:	Direct-Push Technologies (DPT)		
Drilling Company:	Seagull	**Geologist**	Kaitlyn Mitchell
Boring Coordinates:	42.751989N, 98.033294W	**Weather**	Sunny, warm

Depth (ft)	Recovery	Color (Munsell)	Lithology (USCS)	PID (ppm)	Sample Interval	Description
0-1		Brown	Silty Clay	NA	0-2 ft	
1-2		Brown	Silty Clay	NA		
2-3		Brown	Silty Clay	NA		
3-4		Brown	Silty Clay	NA		
4-5		Brown	Silty Clay	NA	4 ft	
5-6		Grey/Brown	Silty Clay	NA		
6-7		Grey/Brown	Silty Clay	NA		
7-8		Grey/Brown	Silty Clay	NA		
8-9		Grey/Brown	Clay	NA		
9-10		Grey/Brown	Clay	NA	9 ft	
10-11		Grey/Brown	Clay	NA		
11-12		Orange/Brown	Clay	NA		
12-13		Brown/Grey/ Orange	Clay	NA		
13-14		Brown/Grey/ Orange	Clay	NA		
14-15		Brown/Grey/ Orange	Clay	NA	14 ft	
15-16		Brown/Grey/ Orange	Clay	NA		

Boring Log Form

Site Name:	Former Health Module	**Boring Number**	SB-5
Project Number:	X9025140002.019.024	**Boring Depth**	16 feet bgs
Client:	START	**Depth to Water**	Not encountered
Drilling Method:	Direct-Push Technologies (DPT)		
Drilling Company:	Seagull	**Geologist**	Kaitlyn Mitchell
Boring Coordinates:	42.751981N, 98.033086W	**Weather**	Sunny, warm

Depth (ft)	Recovery	Color (Munsell)	Lithology (USCS)	PID (ppm)	Sample Interval	Description
0-1		Brown	Silty Clay	NA	0-2 ft	
1-2		Brown	Silty Clay	NA		
2-3		Brown	Silty Clay	NA		
3-4		Brown	Silty Clay	NA		
4-5		Grey/Brown	Silty, Sandy, Clay	NA	4 ft	
5-6		Grey/Brown	Silty, Sandy, Clay	NA		
6-7		Grey/Brown	Silty, Sandy, Clay	NA		
7-8		Grey/Brown	Silty, Sandy, Clay	NA		
8-9		Brown/Orange	Clay	NA		
9-10		Brown/Orange	Clay	NA	9 ft	
10-11		Brown/Orange	Clay	NA		
11-12		Brown/Orange	Clay	NA		
12-13		Brown/Orange	Clay	NA		
13-14		Brown/Orange	Clay	NA		
14-15		Brown/Orange	Clay	NA	14 ft	
15-16		Brown/Orange	Clay	NA		

Boring Log Form

TETRA TECH

Site Name:	Former Health Module	**Boring Number**	SB-6
Project Number:	X9025140002.019.024	**Boring Depth**	16 feet bgs
Client:	START	**Depth to Water**	Not encountered
Drilling Method:	Direct-Push Technologies (DPT)		
Drilling Company:	Seagull	**Geologist**	Kaitlyn Mitchell
Boring Coordinates:	42.751908N, 98.032969W	**Weather**	Sunny, warm

Depth (ft)	Recovery	Color (Munsell)	Lithology (USCS)	PID (ppm)	Sample Interval	Description
0-1		Brown	Rock/Silty	NA	0-2 ft	
1-2		Brown	Rock/Silty	NA		
2-3		Brown	Rock/Silty	NA		
3-4		Brown	Rock/Silty	NA		
4-5		Grey/Brown	Silty, Clay	NA	4 ft	
5-6		Grey/Brown	Silty, Clay	NA		
6-7		Grey/Brown	Silty, Clay	NA		
7-8		Grey/Brown	Silty, Clay	NA		
8-9		Grey/Brown	Silty, Clay	NA		
9-10		Grey/Brown	Silty, Clay	NA	9 ft	
10-11		Grey/Brown	Silty, Clay	NA		
11-12		Grey/Brown	Silty, Clay	NA		
12-13		Brown/Orange	Silty, Clay	NA		
13-14		Brown/Orange	Silty, Clay	NA		
14-15		Brown/Orange	Silty, Clay	NA	14 ft	
15-16		Brown/Orange	Silty, Clay	NA		

Boring Log Form

TETRA TECH

Site Name:	Former Health Module	**Boring Number**	SB-7
Project Number:	X9025140002.019.024	**Boring Depth**	16 feet bgs
Client:	START	**Depth to Water**	Not encountered
Drilling Method:	Direct-Push Technologies (DPT)		
Drilling Company:	Seagull	**Geologist**	Kaitlyn Mitchell
Boring Coordinates:	42.751856N, 98.032906W	**Weather**	Sunny, warm

Depth (ft)	Recovery	Color (Munsell)	Lithology (USCS)	PID (ppm)	Sample Interval	Description
0-1		Brown	Silty	NA	0-2 ft	
1-2		Brown	Silty	NA		
2-3		Brown	Silty	NA		
3-4		Brown	Silty	NA		
4-5		Dark Brown/Tan	Silty/Rock	NA	4 ft	
5-6		Dark Brown/Tan	Silty/Rock	NA		
6-7		Dark Brown/Tan	Silty/Clay	NA		
7-8		Dark Brown/Tan	Silty/Clay	NA		
8-9		Brown/Grey	Silty/Clay	NA		
9-10		Brown/Grey	Silty/Clay	NA	9 ft	
10-11		Brown/Grey	Silty/Clay	NA		
11-12		Brown/Grey	Silty/Clay	NA		
12-13		Brown/Grey/ Orange	Clay	NA		
13-14		Brown/Grey/ Orange	Clay	NA		
14-15		Dark Brown	Clay	NA	14 ft	
15-16		Dark Brown	Clay	NA		

Boring Log Form

TETRA TECH

Site Name:	Former Health Module	**Boring Number**	SB-8
Project Number:	X9025140002.019.024	**Boring Depth**	16 feet bgs
Client:	START	**Depth to Water**	Not encountered
Drilling Method:	Direct-Push Technologies (DPT)		
Drilling Company:	Seagull	**Geologist**	Kaitlyn Mitchell
Boring Coordinates:	42.751797N, 98.032983W	**Weather**	Sunny, warm

Depth (ft)	Recovery	Color (Munsell)	Lithology (USCS)	PID (ppm)	Sample Interval	Description
0-1		Dark Brown	Silty	NA	0-2 ft	
1-2		Dark Brown	Silty	NA		
2-3		Dark Brown	Silty	NA		
3-4		Dark Brown	Silty	NA		
4-5		Dark Brown	Clay	NA	4 ft	
5-6		Dark Brown	Clay	NA		
6-7		Dark Brown	Clay	NA		
7-8		Dark Brown	Clay	NA		
8-9		Dark Brown	Clay	NA		
9-10		Dark Brown	Clay	NA	9 ft	
10-11		Dark Brown	Clay	NA		
11-12		Dark Brown	Clay	NA		
12-13		Dark Brown	Clay	NA		
13-14		Dark Brown	Clay	NA		
14-15		Black/Grey	Clay	NA	14 ft	
15-16		Black/Grey	Clay	NA		

Boring Log Form

Site Name:	Former Health Module	**Boring Number**	SB-9
Project Number:	X9025140002.019.024	**Boring Depth**	16 feet bgs
Client:	START	**Depth to Water**	Not encountered
Drilling Method:	Direct-Push Technologies (DPT)		
Drilling Company:	Seagull	**Geologist**	Kaitlyn Mitchell
Boring Coordinates:	42.751775N, 98.033056W	**Weather**	Sunny, warm

Depth (ft)	Recovery	Color (Munsell)	Lithology (USCS)	PID (ppm)	Sample Interval	Description
0-1		Brown	Silty/Clay	NA	0-2 ft	
1-2		Brown	Silty/Clay	NA		
2-3		Brown	Silty/Clay	NA		
3-4		Brown	Silty/Clay	NA		
4-5		Dark Brown	Clay	NA	4 ft	
5-6		Dark Brown	Clay	NA		
6-7		Dark Brown	Clay	NA		
7-8		Dark Brown	Clay	NA		
8-9		Dark Brown	Clay	NA		
9-10		Dark Brown	Clay	NA	9 ft	
10-11		Dark Brown	Clay	NA		
11-12		Dark Brown	Clay	NA		
12-13		Dark Brown	Clay	NA		
13-14		Dark Brown	Clay	NA		
14-15		Dark Brown	Clay	NA	14 ft	
15-16		Dark Brown	Clay	NA		

Boring Log Form

TETRA TECH

Site Name:	Former Health Module	**Boring Number**	SB-10
Project Number:	X9025140002.019.024	**Boring Depth**	16 feet bgs
Client:	START	**Depth to Water**	Not encountered
Drilling Method:	Direct-Push Technologies (DPT)		
Drilling Company:	Seagull	**Geologist**	Kaitlyn Mitchell
Boring Coordinates:	42.751856N, 98.033044W	**Weather**	Sunny, warm

Depth (ft)	Recovery	Color (Munsell)	Lithology (USCS)	PID (ppm)	Sample Interval	Description
0-1		Brown	Silty	NA	0-2 ft	
1-2		Brown	Silty	NA		
2-3		Brown	Silty	NA		
3-4		Brown	Silty	NA		
4-5		Tan/Orange	Silty/Clay	NA	4 ft	
5-6		Brown/Grey	Silty/Clay	NA		
6-7		Brown/Grey	Silty/Clay	NA		
7-8		Brown/Grey	Silty/Clay	NA		
8-9		Dark Brown/Grey	Clay	NA		
9-10		Dark Brown/Grey	Clay	NA	9 ft	
10-11		Dark Brown/Grey	Clay	NA		
11-12		Dark Brown/Grey	Clay	NA		
12-13		Black	Clay	NA		
13-14		Black	Clay	NA		
14-15		Grey	Clay	NA	14 ft	
15-16		Black	Clay	NA		

6/20/17 C. Bonn, M. Sawyer, Q. Do

1400 Arrive at Ponca Headquarters to meet Paige Hingst

1415 Arrive at 249 Spruce Avenue begin boring SB-1 @ 42.75169 N, 98.03378 W

1449 collect SB-1 from 14-16 ft bgs no PID readings or staining groundwater not encountered

1454 Begin drilling at SB-2 location 42.75198 N, 98.03354 W

1518 collect sample SB-2 from 14-16 ft bgs no PID readings or staining will continue drilling to try to reach groundwater - this is the lowest area on the property

1525 Advance boring to 32 feet bgs and reach refusal

1540 collect SS-1 at 42.75171 N, 98.03268 W and SS-2 at SS-2 at 42.75172 N, 98.03 place no near outbuilding

1547 Begin boring SB-3 at 42.75163 N, 98.03274 W

1620 collect SB-3 from 14-16 ft bgs (also collect MS/MSD - triple volume No groundwater, PID readings or staining

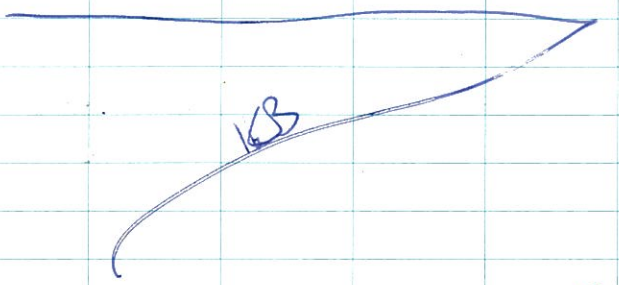
1625 Begin drilling at SB-4 at 42.75198 N, 98.03294 W

1645 collect SB-4 from 14-16 ft Bgs NO PID readings or staining will continue boring to try to reach groundwater

1706 Refusal reached at 32 ft bgs no groundwater encountered

1710 cleanup site and pack up coolers. No FedEx pickup this late so will ice/store samples in refrigerator overnight and will ship tomorrow.

1720 Depart site for hotel



5/22/18

0730 K. Mitchell & Q. Do, START, depart KC office for Farmer Health Module (FHM) site in Niobrara, NE

1420 Arrive on site, speak to Allison Gienapp, Ponca Tribe, Allison says the future use of the site will depend on the Phase II results but potentially could be used for a garden (pollinator)

1480 K. Mitchell marks sample locations with flags - locations are distributed evenly throughout northern half of property.

1440 Q. Do begins advancing SB-1
42.751914N, -98.033653W

1535 Advance SB-2
42.751961, 98.033458

1610 Advance SB-3
42.751969, 98.033378

1630 Depart from site to hotel

1730 Arrive at hotel

KM 5/22/18

5/23/18

0730 K. Mitchell & Q. Do, START depart hotel for site

0830 Arrive on site, meet Allison. G

0845 Advance SB-4
42.751989, 98.033294

0910 Advance SB-5
42.751981, 98.033086

0930 Advance SB-6
42.751908, 98.032969

1000 Advance SB-7
42.751856, 98.032906

1030 Advance SB-8
42.751797, 98.032983

1105 Advance SB-9
42.751775, 98.033056

1130 Advance SB-10
42.751856, 98.033044

1200 Q. Do cleans equipment and packs up

1225 Collect rinsate Blank RB-1

1280 Depart from site

1740 Stop in omaha, NE for the night

KM 5/23/18

5/24/18

0730 K. Mitchell & Q. Do depart Omaha, NE for the Kansas City Tetra Tech office

1040 Arrive at Tetra Tech office to unload car and finish paperwork

KM 5/24/18

APPENDIX D

CHAIN-OF-CUSTODY RECORDS, ANALYTICAL DATA PACKAGES, AND DATA VALIDATION REPORTS

J3 Resources, Inc.
6110 W. 34th Street, Houston, Texas 77092
Phone: (713) 290-0221 - Fax: (713) 290-0248
J3Resources.com

Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)

EPA 600/M4-82-020; 600/R-93/116

Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road Suite 210
Houston TX 77099

J3 Order #: JH1786770
Project #: HS17061402
Date Received: 29-Jun-2017
Date Analyzed: 29-Jun-2017
Date Reported: 30-Jun-2017

HS17061402

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
SS-1	Soil, Brown, Homogeneous	None Detected	Non-Fibrous Material	100%
SS-2	Soil, Brown, Homogeneous	None Detected	Non-Fibrous Material	100%

Duane Salinas Analyst

Scott Ward, Ph.D. Lab Director

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

86770

Subcontract Chain of Custody

COC ID: HS17061402

SUBCONTRACT TO:

J3 Resources, Inc.
6110 W. 34th Street
Houston, Texas 77092

Phone: +1 713 290 0221

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS17061402
TSR:	Tom Kissinger

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS17061402-03**	**SS-1**	**Soil**	**21 Jun 2017 09:25**
	Asbestos (PLM Qualitative)			05 Jul 2017
2.	**HS17061402-04**	**SS-2**	**Soil**	**21 Jun 2017 09:25**
	Asbestos (PLM Qualitative)			05 Jul 2017

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

Asbestos (PLM Qualitative)

QC Level: STD (Laboratory Standard QC: method blank and LCS required)

Relinquished By: J. Mannion — Date/Time: 6/26/17 13:12

Received By: — Date/Time: 6/26/17 1312

Cooler ID(s): — Temperature(s):

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

July 12, 2017

Emily Fisher
Tetra Tech, Inc.
415 Oak Street
Kansas City, MO 64106

Work Order: **HS17061403**

Laboratory Results for: **Ponca Tribe FHM Site**

Dear Emily,

ALS Environmental received 7 sample(s) on Jun 22, 2017 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Jumoke.Lawal
Dane J. Wacasey

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Work Order: HS17061403

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS17061403-01	SS-1	Soil		21-Jun-2017 11:30	22-Jun-2017 08:33	☐
HS17061403-02	SS-2	Soil		21-Jun-2017 11:30	22-Jun-2017 08:33	☐
HS17061403-03	SB-1	Soil		20-Jun-2017 14:49	22-Jun-2017 08:33	☐
HS17061403-04	SB-2	Soil		20-Jun-2017 15:18	22-Jun-2017 08:33	☐
HS17061403-05	SB-3	Soil		20-Jun-2017 16:20	22-Jun-2017 08:33	☐
HS17061403-06	SB-4	Soil		20-Jun-2017 16:45	22-Jun-2017 08:33	☐
HS17061403-07	Trip Blank-1	Water	VBLKW-061517-03	20-Jun-2017 00:00	22-Jun-2017 08:33	☐

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Work Order: HS17061403

CASE NARRATIVE

Work Order Comments

- The analysis for Asbestos was subcontracted to J3 Resources, Inc. in Houston, TX. Final report attached.

GC Semivolatiles by Method SW8015M

Batch ID: 117570

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Volatiles by Method SW8015

Batch ID: R297333

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Semivolatiles by Method SW8270

Batch ID: 117478

Sample ID: HS17061402-08MS

- MS and MSD are for an unrelated sample

Batch ID: 117569

Sample ID: SB-3 (HS17061403-05MS)

- One or more of the matrix spike compounds for the EPA 8270 analysis were recovered outside of the quality control limits due to sample matrix interferences. The LCS sample associated to this sample was within control limits.

Sample ID: SB-3 (HS17061403-05MSD)

- One or more of the matrix spike compounds for the EPA 8270 analysis were recovered outside of the quality control limits due to sample matrix interferences. The LCS sample associated to this sample was within control limits.
- The RPD between the MS and MSD was outside of the control limit for Bis(2-chloroethyl)ether and surrogate 2-Fluorphenol.

GCMS Volatiles by Method SW8260

Batch ID: R297400

Sample ID: Trip Blank-1 (HS17061403-07)

- Surrogate Dibromofluoromethane failed recovery limits due to effects of trisodium phosphate preservative.

Sample ID: HS17061401-28MS

- MS and MSD are for an unrelated sample.

Batch ID: R297160

Sample ID: HS17061402-08MS

- MS and MSD are for an unrelated sample

Sample ID: SB-3 (HS17061403-05MS)

- MS/MSD failed recovery limits for select compounds due to possible matrix interference.

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Work Order: HS17061403

CASE NARRATIVE

Metals by Method SW6020

Batch ID: 117799

Sample ID: SB-3 (HS17061403-05MS)

- Chromium failed recovery criteria in the MS/MSD, however, passed in the PDS.
- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount for Barium.

Sample ID: SB-3 (HS17061403-05MSD)

- Due to non-homogeneity of the soil sample matrix the MS/MSD recoveries and RPD were outside the control limits for Barium.

Sample ID: SB-3 (HS17061403-05SD)

- The percent difference between the results of the sample and the serial dilution were greater than 10% for Lead and Selenium.

Metals by Method SW7471A

Batch ID: 117765

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method ASTM D2216

Batch ID: R297247

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SS-1
Collection Date: 21-Jun-2017 11:30

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-01
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY SW6020A		**Method:SW6020**			Prep:SW3050A / 06-Jul-2017		Analyst: JDE
Arsenic	**6.31**		**0.0940**	**0.470**	**mg/Kg**	1	07-Jul-2017 00:25
Barium	**139**		**0.0752**	**0.470**	**mg/Kg**	1	07-Jul-2017 00:25
Cadmium	**0.399**	J	**0.0470**	**0.470**	**mg/Kg**	1	07-Jul-2017 00:25
Chromium	**8.01**		**0.0846**	**0.470**	**mg/Kg**	1	07-Jul-2017 00:25
Lead	**16.8**		**0.0470**	**0.470**	**mg/Kg**	1	07-Jul-2017 00:25
Selenium	**1.12**		**0.169**	**0.470**	**mg/Kg**	1	07-Jul-2017 00:25
Silver	< 0.0752		0.0752	0.470	mg/Kg	1	07-Jul-2017 00:25
MERCURY BY SW7471B		**Method:SW7471A**			Prep:SW7471A / 05-Jul-2017		Analyst: RPM
Mercury	**0.0404**		**0.000508**	**0.00360**	**mg/Kg**	1	07-Jul-2017 15:02
SUBCONTRACT ANALYSIS - ASBESTOS		**Method:NA**					Analyst: SUB
Subcontract Analysis	See Attached		0			1	30-Jun-2017 11:03

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SS-2
Collection Date: 21-Jun-2017 11:30

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-02
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY SW6020A		**Method:SW6020**			Prep:SW3050A / 06-Jul-2017		Analyst: JDE
Arsenic	**5.75**		**0.0928**	**0.464**	**mg/Kg**	1	07-Jul-2017 00:30
Barium	**141**		**0.0742**	**0.464**	**mg/Kg**	1	07-Jul-2017 00:30
Cadmium	**0.363**	J	**0.0464**	**0.464**	**mg/Kg**	1	07-Jul-2017 00:30
Chromium	**8.16**		**0.0835**	**0.464**	**mg/Kg**	1	07-Jul-2017 00:30
Lead	**12.2**		**0.0464**	**0.464**	**mg/Kg**	1	07-Jul-2017 00:30
Selenium	**1.10**		**0.167**	**0.464**	**mg/Kg**	1	07-Jul-2017 00:30
Silver	< 0.0742		0.0742	0.464	mg/Kg	1	07-Jul-2017 00:30
MERCURY BY SW7471B		**Method:SW7471A**			Prep:SW7471A / 05-Jul-2017		Analyst: RPM
Mercury	**0.0311**		**0.000504**	**0.00356**	**mg/Kg**	1	07-Jul-2017 15:04
SUBCONTRACT ANALYSIS - ASBESTOS		**Method:NA**					Analyst: SUB
Subcontract Analysis	See Attached		0			1	30-Jun-2017 11:03

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-1
Collection Date: 20-Jun-2017 14:49

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-03
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**						Analyst: WLR
1,1,1-Trichloroethane	< 0.82		0.82	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
1,1,2,2-Tetrachloroethane	< 1.3		1.3	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
1,1,2-Trichlor-1,2,2-trifluoroethane	< 1.2		1.2	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
1,1,2-Trichloroethane	< 0.82		0.82	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
1,1-Dichloroethane	< 0.82		0.82	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
1,1-Dichloroethene	< 0.82		0.82	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
1,2,4-Trichlorobenzene	< 1.6		1.6	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
1,2-Dibromo-3-chloropropane	< 1.6		1.6	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
1,2-Dibromoethane	< 0.82		0.82	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
1,2-Dichlorobenzene	< 1.6		1.6	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
1,2-Dichloroethane	< 0.99		0.99	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
1,2-Dichloropropane	< 1.3		1.3	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
1,3-Dichlorobenzene	< 1.6		1.6	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
1,4-Dichlorobenzene	< 1.6		1.6	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
2-Butanone	< 2.1		2.1	16	ug/Kg-dry	1	27-Jun-2017 13:38
2-Hexanone	< 2.3		2.3	16	ug/Kg-dry	1	27-Jun-2017 13:38
4-Methyl-2-pentanone	< 3.3		3.3	16	ug/Kg-dry	1	27-Jun-2017 13:38
Acetone	< 3.3		3.3	33	ug/Kg-dry	1	27-Jun-2017 13:38
Benzene	< 0.82		0.82	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Bromodichloromethane	< 0.82		0.82	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Bromoform	< 0.99		0.99	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Bromomethane	< 1.6		1.6	16	ug/Kg-dry	1	27-Jun-2017 13:38
Carbon disulfide	< 0.99		0.99	16	ug/Kg-dry	1	27-Jun-2017 13:38
Carbon tetrachloride	< 0.99		0.99	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Chlorobenzene	< 0.99		0.99	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Chloroethane	< 1.3		1.3	16	ug/Kg-dry	1	27-Jun-2017 13:38
Chloroform	< 0.82		0.82	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Chloromethane	< 0.82		0.82	16	ug/Kg-dry	1	27-Jun-2017 13:38
cis-1,2-Dichloroethene	< 1.3		1.3	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
cis-1,3-Dichloropropene	< 0.82		0.82	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Cyclohexane	< 1.6		1.6	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Dibromochloromethane	< 0.82		0.82	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Dichlorodifluoromethane	< 1.2		1.2	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Ethylbenzene	< 1.2		1.2	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Isopropylbenzene	< 1.5		1.5	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
m,p-Xylene	< 2.6		2.6	16	ug/Kg-dry	1	27-Jun-2017 13:38
Methyl acetate	< 1.2		1.2	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Methyl tert-butyl ether	< 0.82		0.82	8.2	ug/Kg-dry	1	27-Jun-2017 13:38

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-1
Collection Date: 20-Jun-2017 14:49

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-03
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**					Analyst: WLR
Methylcyclohexane	< 1.6		1.6	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Methylene chloride	< 1.6		1.6	16	ug/Kg-dry	1	27-Jun-2017 13:38
o-Xylene	< 1.6		1.6	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Styrene	< 1.2		1.2	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Tetrachloroethene	< 1.2		1.2	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Toluene	< 0.99		0.99	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
trans-1,2-Dichloroethene	< 0.82		0.82	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
trans-1,3-Dichloropropene	< 0.99		0.99	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Trichloroethene	< 0.99		0.99	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Trichlorofluoromethane	< 0.82		0.82	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Vinyl chloride	< 1.3		1.3	3.3	ug/Kg-dry	1	27-Jun-2017 13:38
Xylenes, Total	< 1.6		1.6	8.2	ug/Kg-dry	1	27-Jun-2017 13:38
Surr: 1,2-Dichloroethane-d4	*98.6*			*70-126*	*%REC*	*1*	*27-Jun-2017 13:38*
Surr: 4-Bromofluorobenzene	*86.7*			*73-120*	*%REC*	*1*	*27-Jun-2017 13:38*
Surr: Dibromofluoromethane	*39.5*	*S*		*70-130*	*%REC*	*1*	*27-Jun-2017 13:38*
Surr: Toluene-d8	*103*			*82-121*	*%REC*	*1*	*27-Jun-2017 13:38*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**					Analyst: JLJ
Gasoline Range Organics	< 0.0096		0.0096	0.048	mg/Kg-dry	1	28-Jun-2017 20:51
Surr: 4-Bromofluorobenzene	*93.8*			*70-123*	*%REC*	*1*	*28-Jun-2017 20:51*

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-1
Collection Date: 20-Jun-2017 14:49

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-03
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3541 / 26-Jun-2017		Analyst: ACN
1,1´-Biphenyl	< 2.3		2.3	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
2,4,5-Trichlorophenol	< 3.4		3.4	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
2,4,6-Trichlorophenol	< 2.3		2.3	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
2,4-Dichlorophenol	< 1.8		1.8	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
2,4-Dimethylphenol	< 4.5		4.5	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
2,4-Dinitrophenol	< 6.1		6.1	18	ug/Kg-dry	1	29-Jun-2017 17:41
2,4-Dinitrotoluene	< 1.2		1.2	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
2,6-Dinitrotoluene	< 4.5		4.5	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
2-Chloronaphthalene	< 1.8		1.8	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
2-Chlorophenol	< 1.8		1.8	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
2-Methylnaphthalene	< 0.68		0.68	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
2-Methylphenol	< 1.5		1.5	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
2-Nitroaniline	< 2.6		2.6	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
2-Nitrophenol	< 3.4		3.4	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
3&4-Methylphenol	< 1.4		1.4	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
3,3´-Dichlorobenzidine	< 3.4		3.4	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
3-Nitroaniline	< 2.6		2.6	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
4,6-Dinitro-2-methylphenol	< 2.8		2.8	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
4-Bromophenyl phenyl ether	< 2.2		2.2	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
4-Chloro-3-methylphenol	< 0.95		0.95	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
4-Chloroaniline	< 1.5		1.5	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
4-Chlorophenyl phenyl ether	< 2.0		2.0	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
4-Nitroaniline	< 3.0		3.0	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
4-Nitrophenol	< 2.6		2.6	18	ug/Kg-dry	1	29-Jun-2017 17:41
Acenaphthene	< 0.68		0.68	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Acenaphthylene	< 1.4		1.4	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Acetophenone	< 1.1		1.1	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Anthracene	< 0.68		0.68	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Atrazine	< 2.7		2.7	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Benz(a)anthracene	< 2.2		2.2	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Benzaldehyde	< 1.6		1.6	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Benzo(a)pyrene	< 1.4		1.4	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Benzo(b)fluoranthene	< 1.6		1.6	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Benzo(g,h,i)perylene	< 0.95		0.95	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Benzo(k)fluoranthene	< 1.2		1.2	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Bis(2-chloroethoxy)methane	< 1.2		1.2	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Bis(2-chloroethyl)ether	< 1.5		1.5	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Bis(2-chloroisopropyl)ether	< 1.9		1.9	9.0	ug/Kg-dry	1	29-Jun-2017 17:41

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-1
Collection Date: 20-Jun-2017 14:49

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-03
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3541 / 26-Jun-2017		Analyst: ACN
Bis(2-ethylhexyl)phthalate	**11**		**2.3**	**9.0**	**ug/Kg-dry**	1	29-Jun-2017 17:41
Butyl benzyl phthalate	**3.2**	J	**1.8**	**9.0**	**ug/Kg-dry**	1	29-Jun-2017 17:41
Caprolactam	< 1.6		1.6	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Carbazole	< 1.6		1.6	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Chrysene	< 1.1		1.1	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Dibenz(a,h)anthracene	< 2.2		2.2	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Dibenzofuran	< 0.95		0.95	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Diethyl phthalate	< 1.4		1.4	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Dimethyl phthalate	< 1.1		1.1	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Di-n-butyl phthalate	< 1.6		1.6	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Di-n-octyl phthalate	< 1.2		1.2	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Fluoranthene	< 1.5		1.5	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Fluorene	< 1.5		1.5	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Hexachlorobenzene	< 1.2		1.2	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Hexachlorobutadiene	< 1.6		1.6	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Hexachlorocyclopentadiene	< 1.1		1.1	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Hexachloroethane	< 2.0		2.0	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Indeno(1,2,3-cd)pyrene	< 1.1		1.1	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Isophorone	< 1.1		1.1	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Naphthalene	< 0.81		0.81	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Nitrobenzene	< 1.2		1.2	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
N-Nitrosodi-n-propylamine	< 1.5		1.5	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
N-Nitrosodiphenylamine	< 0.95		0.95	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Pentachlorophenol	< 4.5		4.5	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Phenanthrene	< 2.0		2.0	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Phenol	< 1.5		1.5	9.0	ug/Kg-dry	1	29-Jun-2017 17:41
Pyrene	< 0.81		0.81	4.5	ug/Kg-dry	1	29-Jun-2017 17:41
Surr: 2,4,6-Tribromophenol	*69.0*			*36-126*	*%REC*	*1*	*29-Jun-2017 17:41*
Surr: 2-Fluorobiphenyl	*64.9*			*43-125*	*%REC*	*1*	*29-Jun-2017 17:41*
Surr: 2-Fluorophenol	*66.4*			*37-125*	*%REC*	*1*	*29-Jun-2017 17:41*
Surr: 4-Terphenyl-d14	*78.3*			*32-125*	*%REC*	*1*	*29-Jun-2017 17:41*
Surr: Nitrobenzene-d5	*67.4*			*37-125*	*%REC*	*1*	*29-Jun-2017 17:41*
Surr: Phenol-d6	*68.7*			*40-125*	*%REC*	*1*	*29-Jun-2017 17:41*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**				Prep:SW3541 / 28-Jun-2017		Analyst: AAP
TPH (Diesel Range)	**1.7**	J	**0.68**	**2.3**	**mg/Kg-dry**	1	29-Jun-2017 02:43
TPH (Motor Oil Range)	**7.3**		**0.68**	**4.6**	**mg/Kg-dry**	1	29-Jun-2017 02:43
Surr: 2-Fluorobiphenyl	*88.6*			*60-129*	*%REC*	*1*	*29-Jun-2017 02:43*

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-1
Collection Date: 20-Jun-2017 14:49

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-03
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY SW6020A	**Method:SW6020**				Prep:SW3050A / 06-Jul-2017		Analyst: JDE
Arsenic	**7.98**		**0.126**	**0.629**	**mg/Kg-dry**	1	07-Jul-2017 00:35
Barium	**32.9**		**0.101**	**0.629**	**mg/Kg-dry**	1	07-Jul-2017 00:35
Cadmium	**1.66**		**0.0629**	**0.629**	**mg/Kg-dry**	1	07-Jul-2017 00:35
Chromium	**2.75**		**0.113**	**0.629**	**mg/Kg-dry**	1	07-Jul-2017 00:35
Lead	**24.6**		**0.0629**	**0.629**	**mg/Kg-dry**	1	07-Jul-2017 00:35
Selenium	**7.68**		**0.226**	**0.629**	**mg/Kg-dry**	1	07-Jul-2017 00:35
Silver	**0.192**	J	**0.101**	**0.629**	**mg/Kg-dry**	1	07-Jul-2017 00:35
MERCURY BY SW7471B	**Method:SW7471A**				Prep:SW7471A / 05-Jul-2017		Analyst: RPM
Mercury	**0.0641**		**0.000688**	**0.00487**	**mg/Kg-dry**	1	07-Jul-2017 15:05
MOISTURE - ASTM D2216	**Method:ASTM D2216**						Analyst: DFF
Percent Moisture	**26.4**		**0.0100**	**0.0100**	**wt%**	1	27-Jun-2017 12:33

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-2
Collection Date: 20-Jun-2017 15:18

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-04
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**						Analyst: WLR
1,1,1-Trichloroethane	< 1.1		1.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
1,1,2,2-Tetrachloroethane	< 1.7		1.7	11	ug/Kg-dry	1	27-Jun-2017 14:02
1,1,2-Trichlor-1,2,2-trifluoroethane	< 1.5		1.5	11	ug/Kg-dry	1	27-Jun-2017 14:02
1,1,2-Trichloroethane	< 1.1		1.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
1,1-Dichloroethane	< 1.1		1.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
1,1-Dichloroethene	< 1.1		1.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
1,2,4-Trichlorobenzene	< 2.1		2.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
1,2-Dibromo-3-chloropropane	< 2.1		2.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
1,2-Dibromoethane	< 1.1		1.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
1,2-Dichlorobenzene	< 2.1		2.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
1,2-Dichloroethane	< 1.3		1.3	11	ug/Kg-dry	1	27-Jun-2017 14:02
1,2-Dichloropropane	< 1.7		1.7	11	ug/Kg-dry	1	27-Jun-2017 14:02
1,3-Dichlorobenzene	< 2.1		2.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
1,4-Dichlorobenzene	< 2.1		2.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
2-Butanone	< 2.7		2.7	21	ug/Kg-dry	1	27-Jun-2017 14:02
2-Hexanone	< 3.0		3.0	21	ug/Kg-dry	1	27-Jun-2017 14:02
4-Methyl-2-pentanone	< 4.2		4.2	21	ug/Kg-dry	1	27-Jun-2017 14:02
Acetone	< 4.2		4.2	42	ug/Kg-dry	1	27-Jun-2017 14:02
Benzene	< 1.1		1.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
Bromodichloromethane	< 1.1		1.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
Bromoform	< 1.3		1.3	11	ug/Kg-dry	1	27-Jun-2017 14:02
Bromomethane	< 2.1		2.1	21	ug/Kg-dry	1	27-Jun-2017 14:02
Carbon disulfide	< 1.3		1.3	21	ug/Kg-dry	1	27-Jun-2017 14:02
Carbon tetrachloride	< 1.3		1.3	11	ug/Kg-dry	1	27-Jun-2017 14:02
Chlorobenzene	< 1.3		1.3	11	ug/Kg-dry	1	27-Jun-2017 14:02
Chloroethane	< 1.7		1.7	21	ug/Kg-dry	1	27-Jun-2017 14:02
Chloroform	< 1.1		1.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
Chloromethane	< 1.1		1.1	21	ug/Kg-dry	1	27-Jun-2017 14:02
cis-1,2-Dichloroethene	< 1.7		1.7	11	ug/Kg-dry	1	27-Jun-2017 14:02
cis-1,3-Dichloropropene	< 1.1		1.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
Cyclohexane	< 2.1		2.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
Dibromochloromethane	< 1.1		1.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
Dichlorodifluoromethane	< 1.5		1.5	11	ug/Kg-dry	1	27-Jun-2017 14:02
Ethylbenzene	< 1.5		1.5	11	ug/Kg-dry	1	27-Jun-2017 14:02
Isopropylbenzene	< 1.9		1.9	11	ug/Kg-dry	1	27-Jun-2017 14:02
m,p-Xylene	< 3.4		3.4	21	ug/Kg-dry	1	27-Jun-2017 14:02
Methyl acetate	< 1.5		1.5	11	ug/Kg-dry	1	27-Jun-2017 14:02
Methyl tert-butyl ether	< 1.1		1.1	11	ug/Kg-dry	1	27-Jun-2017 14:02

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-2
Collection Date: 20-Jun-2017 15:18

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-04
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**					Analyst: WLR
Methylcyclohexane	< 2.1		2.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
Methylene chloride	< 2.1		2.1	21	ug/Kg-dry	1	27-Jun-2017 14:02
o-Xylene	< 2.1		2.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
Styrene	< 1.5		1.5	11	ug/Kg-dry	1	27-Jun-2017 14:02
Tetrachloroethene	< 1.5		1.5	11	ug/Kg-dry	1	27-Jun-2017 14:02
Toluene	< 1.3		1.3	11	ug/Kg-dry	1	27-Jun-2017 14:02
trans-1,2-Dichloroethene	< 1.1		1.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
trans-1,3-Dichloropropene	< 1.3		1.3	11	ug/Kg-dry	1	27-Jun-2017 14:02
Trichloroethene	< 1.3		1.3	11	ug/Kg-dry	1	27-Jun-2017 14:02
Trichlorofluoromethane	< 1.1		1.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
Vinyl chloride	< 1.7		1.7	4.2	ug/Kg-dry	1	27-Jun-2017 14:02
Xylenes, Total	< 2.1		2.1	11	ug/Kg-dry	1	27-Jun-2017 14:02
Surr: 1,2-Dichloroethane-d4	*98.4*			*70-126*	*%REC*	*1*	*27-Jun-2017 14:02*
Surr: 4-Bromofluorobenzene	*96.7*			*73-120*	*%REC*	*1*	*27-Jun-2017 14:02*
Surr: Dibromofluoromethane	*47.8*	*S*		*70-130*	*%REC*	*1*	*27-Jun-2017 14:02*
Surr: Toluene-d8	*98.8*			*82-121*	*%REC*	*1*	*27-Jun-2017 14:02*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**					Analyst: JLJ
Gasoline Range Organics	< 0.022		0.022	0.11	mg/Kg-dry	1	28-Jun-2017 21:08
Surr: 4-Bromofluorobenzene	*91.3*			*70-123*	*%REC*	*1*	*28-Jun-2017 21:08*

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
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ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-04
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3541 / 26-Jun-2017		Analyst: ACN
1,1´-Biphenyl	< 2.6		2.6	10	ug/Kg-dry	1	29-Jun-2017 18:00
2,4,5-Trichlorophenol	< 3.8		3.8	10	ug/Kg-dry	1	29-Jun-2017 18:00
2,4,6-Trichlorophenol	< 2.6		2.6	10	ug/Kg-dry	1	29-Jun-2017 18:00
2,4-Dichlorophenol	< 2.0		2.0	10	ug/Kg-dry	1	29-Jun-2017 18:00
2,4-Dimethylphenol	< 5.1		5.1	10	ug/Kg-dry	1	29-Jun-2017 18:00
2,4-Dinitrophenol	< 6.9		6.9	20	ug/Kg-dry	1	29-Jun-2017 18:00
2,4-Dinitrotoluene	< 1.4		1.4	10	ug/Kg-dry	1	29-Jun-2017 18:00
2,6-Dinitrotoluene	< 5.1		5.1	10	ug/Kg-dry	1	29-Jun-2017 18:00
2-Chloronaphthalene	< 2.0		2.0	10	ug/Kg-dry	1	29-Jun-2017 18:00
2-Chlorophenol	< 2.0		2.0	10	ug/Kg-dry	1	29-Jun-2017 18:00
2-Methylnaphthalene	< 0.77		0.77	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
2-Methylphenol	< 1.7		1.7	10	ug/Kg-dry	1	29-Jun-2017 18:00
2-Nitroaniline	< 2.9		2.9	10	ug/Kg-dry	1	29-Jun-2017 18:00
2-Nitrophenol	< 3.8		3.8	10	ug/Kg-dry	1	29-Jun-2017 18:00
3&4-Methylphenol	< 1.5		1.5	10	ug/Kg-dry	1	29-Jun-2017 18:00
3,3´-Dichlorobenzidine	< 3.8		3.8	10	ug/Kg-dry	1	29-Jun-2017 18:00
3-Nitroaniline	< 2.9		2.9	10	ug/Kg-dry	1	29-Jun-2017 18:00
4,6-Dinitro-2-methylphenol	< 3.2		3.2	10	ug/Kg-dry	1	29-Jun-2017 18:00
4-Bromophenyl phenyl ether	< 2.5		2.5	10	ug/Kg-dry	1	29-Jun-2017 18:00
4-Chloro-3-methylphenol	< 1.1		1.1	10	ug/Kg-dry	1	29-Jun-2017 18:00
4-Chloroaniline	< 1.7		1.7	10	ug/Kg-dry	1	29-Jun-2017 18:00
4-Chlorophenyl phenyl ether	< 2.3		2.3	10	ug/Kg-dry	1	29-Jun-2017 18:00
4-Nitroaniline	< 3.4		3.4	10	ug/Kg-dry	1	29-Jun-2017 18:00
4-Nitrophenol	< 2.9		2.9	20	ug/Kg-dry	1	29-Jun-2017 18:00
Acenaphthene	< 0.77		0.77	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Acenaphthylene	< 1.5		1.5	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Acetophenone	< 1.2		1.2	10	ug/Kg-dry	1	29-Jun-2017 18:00
Anthracene	< 0.77		0.77	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Atrazine	< 3.1		3.1	10	ug/Kg-dry	1	29-Jun-2017 18:00
Benz(a)anthracene	< 2.5		2.5	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Benzaldehyde	< 1.8		1.8	10	ug/Kg-dry	1	29-Jun-2017 18:00
Benzo(a)pyrene	< 1.5		1.5	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Benzo(b)fluoranthene	< 1.8		1.8	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Benzo(g,h,i)perylene	< 1.1		1.1	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Benzo(k)fluoranthene	< 1.4		1.4	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Bis(2-chloroethoxy)methane	< 1.4		1.4	10	ug/Kg-dry	1	29-Jun-2017 18:00
Bis(2-chloroethyl)ether	< 1.7		1.7	10	ug/Kg-dry	1	29-Jun-2017 18:00
Bis(2-chloroisopropyl)ether	< 2.1		2.1	10	ug/Kg-dry	1	29-Jun-2017 18:00

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-2
Collection Date: 20-Jun-2017 15:18

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-04
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3541 / 26-Jun-2017		Analyst: ACN
Bis(2-ethylhexyl)phthalate	**17**		**2.6**	**10**	**ug/Kg-dry**	1	29-Jun-2017 18:00
Butyl benzyl phthalate	< 2.0		2.0	10	ug/Kg-dry	1	29-Jun-2017 18:00
Caprolactam	< 1.8		1.8	10	ug/Kg-dry	1	29-Jun-2017 18:00
Carbazole	< 1.8		1.8	10	ug/Kg-dry	1	29-Jun-2017 18:00
Chrysene	< 1.2		1.2	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Dibenz(a,h)anthracene	< 2.5		2.5	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Dibenzofuran	< 1.1		1.1	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Diethyl phthalate	< 1.5		1.5	10	ug/Kg-dry	1	29-Jun-2017 18:00
Dimethyl phthalate	< 1.2		1.2	10	ug/Kg-dry	1	29-Jun-2017 18:00
Di-n-butyl phthalate	< 1.8		1.8	10	ug/Kg-dry	1	29-Jun-2017 18:00
Di-n-octyl phthalate	< 1.4		1.4	10	ug/Kg-dry	1	29-Jun-2017 18:00
Fluoranthene	< 1.7		1.7	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Fluorene	< 1.7		1.7	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Hexachlorobenzene	< 1.4		1.4	10	ug/Kg-dry	1	29-Jun-2017 18:00
Hexachlorobutadiene	< 1.8		1.8	10	ug/Kg-dry	1	29-Jun-2017 18:00
Hexachlorocyclopentadiene	< 1.2		1.2	10	ug/Kg-dry	1	29-Jun-2017 18:00
Hexachloroethane	< 2.3		2.3	10	ug/Kg-dry	1	29-Jun-2017 18:00
Indeno(1,2,3-cd)pyrene	< 1.2		1.2	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Isophorone	< 1.2		1.2	10	ug/Kg-dry	1	29-Jun-2017 18:00
Naphthalene	< 0.92		0.92	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Nitrobenzene	< 1.4		1.4	10	ug/Kg-dry	1	29-Jun-2017 18:00
N-Nitrosodi-n-propylamine	< 1.7		1.7	10	ug/Kg-dry	1	29-Jun-2017 18:00
N-Nitrosodiphenylamine	< 1.1		1.1	10	ug/Kg-dry	1	29-Jun-2017 18:00
Pentachlorophenol	< 5.1		5.1	10	ug/Kg-dry	1	29-Jun-2017 18:00
Phenanthrene	< 2.3		2.3	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Phenol	< 1.7		1.7	10	ug/Kg-dry	1	29-Jun-2017 18:00
Pyrene	< 0.92		0.92	5.1	ug/Kg-dry	1	29-Jun-2017 18:00
Surr: 2,4,6-Tribromophenol	*77.9*			*36-126*	*%REC*	*1*	*29-Jun-2017 18:00*
Surr: 2-Fluorobiphenyl	*67.6*			*43-125*	*%REC*	*1*	*29-Jun-2017 18:00*
Surr: 2-Fluorophenol	*65.8*			*37-125*	*%REC*	*1*	*29-Jun-2017 18:00*
Surr: 4-Terphenyl-d14	*77.2*			*32-125*	*%REC*	*1*	*29-Jun-2017 18:00*
Surr: Nitrobenzene-d5	*67.5*			*37-125*	*%REC*	*1*	*29-Jun-2017 18:00*
Surr: Phenol-d6	*68.9*			*40-125*	*%REC*	*1*	*29-Jun-2017 18:00*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**				Prep:SW3541 / 28-Jun-2017		Analyst: AAP
TPH (Diesel Range)	**1.7**	J	**0.77**	**2.6**	**mg/Kg-dry**	1	29-Jun-2017 03:07
TPH (Motor Oil Range)	**5.5**		**0.77**	**5.2**	**mg/Kg-dry**	1	29-Jun-2017 03:07
Surr: 2-Fluorobiphenyl	*74.4*			*60-129*	*%REC*	*1*	*29-Jun-2017 03:07*

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-2
Collection Date: 20-Jun-2017 15:18

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-04
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY SW6020A	**Method:SW6020**				Prep:SW3050A / 06-Jul-2017		Analyst: JDE
Arsenic	**78.6**		**0.143**	**0.715**	**mg/Kg-dry**	1	07-Jul-2017 00:40
Barium	**244**		**0.114**	**0.715**	**mg/Kg-dry**	1	07-Jul-2017 00:40
Cadmium	**16.2**		**0.0715**	**0.715**	**mg/Kg-dry**	1	07-Jul-2017 00:40
Chromium	**40.1**		**0.129**	**0.715**	**mg/Kg-dry**	1	07-Jul-2017 00:40
Lead	**6.62**		**0.0715**	**0.715**	**mg/Kg-dry**	1	07-Jul-2017 00:40
Selenium	**5.21**		**0.258**	**0.715**	**mg/Kg-dry**	1	07-Jul-2017 00:40
Silver	**0.591**	J	**0.114**	**0.715**	**mg/Kg-dry**	1	07-Jul-2017 00:40
MERCURY BY SW7471B	**Method:SW7471A**				Prep:SW7471A / 05-Jul-2017		Analyst: RPM
Mercury	**0.110**		**0.000776**	**0.00549**	**mg/Kg-dry**	1	07-Jul-2017 15:07
MOISTURE - ASTM D2216	**Method:ASTM D2216**						Analyst: DFF
Percent Moisture	**35.0**		**0.0100**	**0.0100**	**wt%**	1	27-Jun-2017 12:33

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-3
Collection Date: 20-Jun-2017 16:20

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-05
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**						Analyst: WLR
1,1,1-Trichloroethane	< 0.74		0.74	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
1,1,2,2-Tetrachloroethane	< 1.2		1.2	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
1,1,2-Trichlor-1,2,2-trifluoroethane	< 1.0		1.0	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
1,1,2-Trichloroethane	< 0.74		0.74	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
1,1-Dichloroethane	< 0.74		0.74	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
1,1-Dichloroethene	< 0.74		0.74	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
1,2,4-Trichlorobenzene	< 1.5		1.5	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
1,2-Dibromo-3-chloropropane	< 1.5		1.5	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
1,2-Dibromoethane	< 0.74		0.74	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
1,2-Dichlorobenzene	< 1.5		1.5	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
1,2-Dichloroethane	< 0.89		0.89	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
1,2-Dichloropropane	< 1.2		1.2	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
1,3-Dichlorobenzene	< 1.5		1.5	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
1,4-Dichlorobenzene	< 1.5		1.5	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
2-Butanone	< 1.9		1.9	15	ug/Kg-dry	1	27-Jun-2017 14:26
2-Hexanone	< 2.1		2.1	15	ug/Kg-dry	1	27-Jun-2017 14:26
4-Methyl-2-pentanone	< 3.0		3.0	15	ug/Kg-dry	1	27-Jun-2017 14:26
Acetone	< 3.0		3.0	30	ug/Kg-dry	1	27-Jun-2017 14:26
Benzene	< 0.74		0.74	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Bromodichloromethane	< 0.74		0.74	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Bromoform	< 0.89		0.89	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Bromomethane	< 1.5		1.5	15	ug/Kg-dry	1	27-Jun-2017 14:26
Carbon disulfide	< 0.89		0.89	15	ug/Kg-dry	1	27-Jun-2017 14:26
Carbon tetrachloride	< 0.89		0.89	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Chlorobenzene	< 0.89		0.89	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Chloroethane	< 1.2		1.2	15	ug/Kg-dry	1	27-Jun-2017 14:26
Chloroform	< 0.74		0.74	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Chloromethane	< 0.74		0.74	15	ug/Kg-dry	1	27-Jun-2017 14:26
cis-1,2-Dichloroethene	< 1.2		1.2	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
cis-1,3-Dichloropropene	< 0.74		0.74	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Cyclohexane	< 1.5		1.5	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Dibromochloromethane	< 0.74		0.74	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Dichlorodifluoromethane	< 1.0		1.0	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Ethylbenzene	< 1.0		1.0	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Isopropylbenzene	< 1.3		1.3	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
m,p-Xylene	< 2.4		2.4	15	ug/Kg-dry	1	27-Jun-2017 14:26
Methyl acetate	< 1.0		1.0	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Methyl tert-butyl ether	< 0.74		0.74	7.4	ug/Kg-dry	1	27-Jun-2017 14:26

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-3
Collection Date: 20-Jun-2017 16:20

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-05
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**					Analyst: WLR
Methylcyclohexane	< 1.5		1.5	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Methylene chloride	< 1.5		1.5	15	ug/Kg-dry	1	27-Jun-2017 14:26
o-Xylene	< 1.5		1.5	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Styrene	< 1.0		1.0	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Tetrachloroethene	< 1.0		1.0	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Toluene	< 0.89		0.89	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
trans-1,2-Dichloroethene	< 0.74		0.74	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
trans-1,3-Dichloropropene	< 0.89		0.89	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Trichloroethene	< 0.89		0.89	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Trichlorofluoromethane	< 0.74		0.74	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Vinyl chloride	< 1.2		1.2	3.0	ug/Kg-dry	1	27-Jun-2017 14:26
Xylenes, Total	< 1.5		1.5	7.4	ug/Kg-dry	1	27-Jun-2017 14:26
Surr: 1,2-Dichloroethane-d4	*105*			*70-126*	*%REC*	*1*	*27-Jun-2017 14:26*
Surr: 4-Bromofluorobenzene	*88.7*			*73-120*	*%REC*	*1*	*27-Jun-2017 14:26*
Surr: Dibromofluoromethane	*46.7*	*S*		*70-130*	*%REC*	*1*	*27-Jun-2017 14:26*
Surr: Toluene-d8	*107*			*82-121*	*%REC*	*1*	*27-Jun-2017 14:26*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**					Analyst: JLJ
Gasoline Range Organics	< 0.017		0.017	0.084	mg/Kg-dry	1	28-Jun-2017 21:57
Surr: 4-Bromofluorobenzene	*91.1*			*70-123*	*%REC*	*1*	*28-Jun-2017 21:57*

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-3
Collection Date: 20-Jun-2017 16:20

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-05
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3541 / 28-Jun-2017		Analyst: ACN
1,1´-Biphenyl	< 2.3		2.3	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
2,4,5-Trichlorophenol	< 3.4		3.4	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
2,4,6-Trichlorophenol	< 2.3		2.3	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
2,4-Dichlorophenol	< 1.8		1.8	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
2,4-Dimethylphenol	< 4.5		4.5	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
2,4-Dinitrophenol	< 6.1		6.1	18	ug/Kg-dry	1	29-Jun-2017 11:54
2,4-Dinitrotoluene	< 1.2		1.2	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
2,6-Dinitrotoluene	< 4.5		4.5	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
2-Chloronaphthalene	< 1.8		1.8	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
2-Chlorophenol	< 1.8		1.8	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
2-Methylnaphthalene	< 0.68		0.68	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
2-Methylphenol	< 1.5		1.5	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
2-Nitroaniline	< 2.6		2.6	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
2-Nitrophenol	< 3.4		3.4	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
3&4-Methylphenol	< 1.4		1.4	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
3,3´-Dichlorobenzidine	< 3.4		3.4	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
3-Nitroaniline	< 2.6		2.6	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
4,6-Dinitro-2-methylphenol	< 2.9		2.9	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
4-Bromophenyl phenyl ether	< 2.2		2.2	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
4-Chloro-3-methylphenol	< 0.95		0.95	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
4-Chloroaniline	< 1.5		1.5	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
4-Chlorophenyl phenyl ether	< 2.0		2.0	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
4-Nitroaniline	< 3.0		3.0	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
4-Nitrophenol	< 2.6		2.6	18	ug/Kg-dry	1	29-Jun-2017 11:54
Acenaphthene	< 0.68		0.68	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Acenaphthylene	< 1.4		1.4	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Acetophenone	< 1.1		1.1	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Anthracene	< 0.68		0.68	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Atrazine	< 2.7		2.7	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Benz(a)anthracene	< 2.2		2.2	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Benzaldehyde	< 1.6		1.6	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Benzo(a)pyrene	< 1.4		1.4	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Benzo(b)fluoranthene	< 1.6		1.6	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Benzo(g,h,i)perylene	< 0.95		0.95	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Benzo(k)fluoranthene	< 1.2		1.2	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Bis(2-chloroethoxy)methane	< 1.2		1.2	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Bis(2-chloroethyl)ether	< 1.5		1.5	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Bis(2-chloroisopropyl)ether	< 1.9		1.9	9.0	ug/Kg-dry	1	29-Jun-2017 11:54

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-3
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ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-05
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3541 / 28-Jun-2017		Analyst: ACN
Bis(2-ethylhexyl)phthalate	**37**		**2.3**	**9.0**	**ug/Kg-dry**	1	29-Jun-2017 11:54
Butyl benzyl phthalate	< 1.8		1.8	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Caprolactam	< 1.6		1.6	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Carbazole	< 1.6		1.6	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Chrysene	< 1.1		1.1	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Dibenz(a,h)anthracene	< 2.2		2.2	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Dibenzofuran	< 0.95		0.95	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Diethyl phthalate	< 1.4		1.4	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Dimethyl phthalate	< 1.1		1.1	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Di-n-butyl phthalate	**2.0**	J	**1.6**	**9.0**	**ug/Kg-dry**	1	29-Jun-2017 11:54
Di-n-octyl phthalate	< 1.2		1.2	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Fluoranthene	< 1.5		1.5	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Fluorene	< 1.5		1.5	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Hexachlorobenzene	< 1.2		1.2	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Hexachlorobutadiene	< 1.6		1.6	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Hexachlorocyclopentadiene	< 1.1		1.1	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Hexachloroethane	< 2.0		2.0	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Indeno(1,2,3-cd)pyrene	< 1.1		1.1	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Isophorone	< 1.1		1.1	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Naphthalene	< 0.82		0.82	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Nitrobenzene	< 1.2		1.2	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
N-Nitrosodi-n-propylamine	< 1.5		1.5	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
N-Nitrosodiphenylamine	< 0.95		0.95	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Pentachlorophenol	< 4.5		4.5	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Phenanthrene	< 2.0		2.0	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Phenol	< 1.5		1.5	9.0	ug/Kg-dry	1	29-Jun-2017 11:54
Pyrene	< 0.82		0.82	4.5	ug/Kg-dry	1	29-Jun-2017 11:54
Surr: 2,4,6-Tribromophenol	*74.9*			*36-126*	*%REC*	*1*	*29-Jun-2017 11:54*
Surr: 2-Fluorobiphenyl	*65.6*			*43-125*	*%REC*	*1*	*29-Jun-2017 11:54*
Surr: 2-Fluorophenol	*66.8*			*37-125*	*%REC*	*1*	*29-Jun-2017 11:54*
Surr: 4-Terphenyl-d14	*77.4*			*32-125*	*%REC*	*1*	*29-Jun-2017 11:54*
Surr: Nitrobenzene-d5	*70.8*			*37-125*	*%REC*	*1*	*29-Jun-2017 11:54*
Surr: Phenol-d6	*72.6*			*40-125*	*%REC*	*1*	*29-Jun-2017 11:54*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**				Prep:SW3541 / 28-Jun-2017		Analyst: AAP
TPH (Diesel Range)	**2.6**		**0.68**	**2.3**	**mg/Kg-dry**	1	29-Jun-2017 03:55
TPH (Motor Oil Range)	**9.6**		**0.68**	**4.6**	**mg/Kg-dry**	1	29-Jun-2017 03:55
Surr: 2-Fluorobiphenyl	*77.2*			*60-129*	*%REC*	*1*	*29-Jun-2017 03:55*

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

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Project: Ponca Tribe FHM Site
Sample ID: SB-3
Collection Date: 20-Jun-2017 16:20

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-05
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY SW6020A	**Method:SW6020**				Prep:SW3050A / 06-Jul-2017		Analyst: JDE
Arsenic	**10.9**		**0.131**	**0.655**	**mg/Kg-dry**	1	07-Jul-2017 00:45
Barium	**66.0**		**0.105**	**0.655**	**mg/Kg-dry**	1	07-Jul-2017 00:45
Cadmium	**0.298**	J	**0.0655**	**0.655**	**mg/Kg-dry**	1	07-Jul-2017 00:45
Chromium	**4.33**		**0.118**	**0.655**	**mg/Kg-dry**	1	07-Jul-2017 00:45
Lead	**24.9**		**0.0655**	**0.655**	**mg/Kg-dry**	1	07-Jul-2017 00:45
Selenium	**3.55**		**0.236**	**0.655**	**mg/Kg-dry**	1	07-Jul-2017 00:45
Silver	**0.136**	J	**0.105**	**0.655**	**mg/Kg-dry**	1	07-Jul-2017 00:45
MERCURY BY SW7471B	**Method:SW7471A**				Prep:SW7471A / 05-Jul-2017		Analyst: RPM
Mercury	**0.161**		**0.000689**	**0.00487**	**mg/Kg-dry**	1	07-Jul-2017 15:15
MOISTURE - ASTM D2216	**Method:ASTM D2216**						Analyst: DFF
Percent Moisture	**26.7**		**0.0100**	**0.0100**	**wt%**	1	27-Jun-2017 12:33

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-4
Collection Date: 20-Jun-2017 16:45

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-06
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**						Analyst: WLR
1,1,1-Trichloroethane	< 0.86		0.86	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
1,1,2,2-Tetrachloroethane	< 1.4		1.4	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
1,1,2-Trichlor-1,2,2-trifluoroethane	< 1.2		1.2	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
1,1,2-Trichloroethane	< 0.86		0.86	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
1,1-Dichloroethane	< 0.86		0.86	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
1,1-Dichloroethene	< 0.86		0.86	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
1,2,4-Trichlorobenzene	< 1.7		1.7	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
1,2-Dibromo-3-chloropropane	< 1.7		1.7	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
1,2-Dibromoethane	< 0.86		0.86	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
1,2-Dichlorobenzene	< 1.7		1.7	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
1,2-Dichloroethane	< 1.0		1.0	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
1,2-Dichloropropane	< 1.4		1.4	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
1,3-Dichlorobenzene	< 1.7		1.7	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
1,4-Dichlorobenzene	< 1.7		1.7	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
2-Butanone	< 2.2		2.2	17	ug/Kg-dry	1	27-Jun-2017 14:49
2-Hexanone	< 2.4		2.4	17	ug/Kg-dry	1	27-Jun-2017 14:49
4-Methyl-2-pentanone	< 3.5		3.5	17	ug/Kg-dry	1	27-Jun-2017 14:49
Acetone	**53**		**3.5**	**35**	**ug/Kg-dry**	1	27-Jun-2017 14:49
Benzene	< 0.86		0.86	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Bromodichloromethane	< 0.86		0.86	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Bromoform	< 1.0		1.0	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Bromomethane	< 1.7		1.7	17	ug/Kg-dry	1	27-Jun-2017 14:49
Carbon disulfide	< 1.0		1.0	17	ug/Kg-dry	1	27-Jun-2017 14:49
Carbon tetrachloride	< 1.0		1.0	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Chlorobenzene	< 1.0		1.0	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Chloroethane	< 1.4		1.4	17	ug/Kg-dry	1	27-Jun-2017 14:49
Chloroform	< 0.86		0.86	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Chloromethane	< 0.86		0.86	17	ug/Kg-dry	1	27-Jun-2017 14:49
cis-1,2-Dichloroethene	< 1.4		1.4	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
cis-1,3-Dichloropropene	< 0.86		0.86	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Cyclohexane	< 1.7		1.7	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Dibromochloromethane	< 0.86		0.86	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Dichlorodifluoromethane	< 1.2		1.2	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Ethylbenzene	< 1.2		1.2	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Isopropylbenzene	< 1.6		1.6	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
m,p-Xylene	< 2.8		2.8	17	ug/Kg-dry	1	27-Jun-2017 14:49
Methyl acetate	< 1.2		1.2	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Methyl tert-butyl ether	< 0.86		0.86	8.6	ug/Kg-dry	1	27-Jun-2017 14:49

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-4
Collection Date: 20-Jun-2017 16:45

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-06
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**					Analyst: WLR
Methylcyclohexane	< 1.7		1.7	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Methylene chloride	< 1.7		1.7	17	ug/Kg-dry	1	27-Jun-2017 14:49
o-Xylene	< 1.7		1.7	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Styrene	< 1.2		1.2	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Tetrachloroethene	< 1.2		1.2	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Toluene	< 1.0		1.0	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
trans-1,2-Dichloroethene	< 0.86		0.86	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
trans-1,3-Dichloropropene	< 1.0		1.0	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Trichloroethene	< 1.0		1.0	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Trichlorofluoromethane	< 0.86		0.86	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Vinyl chloride	< 1.4		1.4	3.5	ug/Kg-dry	1	27-Jun-2017 14:49
Xylenes, Total	< 1.7		1.7	8.6	ug/Kg-dry	1	27-Jun-2017 14:49
Surr: 1,2-Dichloroethane-d4	*101*			*70-126*	*%REC*	*1*	*27-Jun-2017 14:49*
Surr: 4-Bromofluorobenzene	*96.7*			*73-120*	*%REC*	*1*	*27-Jun-2017 14:49*
Surr: Dibromofluoromethane	*54.8*	*S*		*70-130*	*%REC*	*1*	*27-Jun-2017 14:49*
Surr: Toluene-d8	*97.2*			*82-121*	*%REC*	*1*	*27-Jun-2017 14:49*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**					Analyst: JLJ
Gasoline Range Organics	< 0.018		0.018	0.091	mg/Kg-dry	1	28-Jun-2017 22:45
Surr: 4-Bromofluorobenzene	*92.8*			*70-123*	*%REC*	*1*	*28-Jun-2017 22:45*

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-4
Collection Date: 20-Jun-2017 16:45

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-06
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3541 / 26-Jun-2017		Analyst: ACN
1,1´-Biphenyl	< 2.6		2.6	10	ug/Kg-dry	1	29-Jun-2017 18:20
2,4,5-Trichlorophenol	< 3.8		3.8	10	ug/Kg-dry	1	29-Jun-2017 18:20
2,4,6-Trichlorophenol	< 2.6		2.6	10	ug/Kg-dry	1	29-Jun-2017 18:20
2,4-Dichlorophenol	< 2.0		2.0	10	ug/Kg-dry	1	29-Jun-2017 18:20
2,4-Dimethylphenol	< 5.0		5.0	10	ug/Kg-dry	1	29-Jun-2017 18:20
2,4-Dinitrophenol	< 6.9		6.9	20	ug/Kg-dry	1	29-Jun-2017 18:20
2,4-Dinitrotoluene	< 1.4		1.4	10	ug/Kg-dry	1	29-Jun-2017 18:20
2,6-Dinitrotoluene	< 5.0		5.0	10	ug/Kg-dry	1	29-Jun-2017 18:20
2-Chloronaphthalene	< 2.0		2.0	10	ug/Kg-dry	1	29-Jun-2017 18:20
2-Chlorophenol	< 2.0		2.0	10	ug/Kg-dry	1	29-Jun-2017 18:20
2-Methylnaphthalene	< 0.76		0.76	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
2-Methylphenol	< 1.7		1.7	10	ug/Kg-dry	1	29-Jun-2017 18:20
2-Nitroaniline	< 2.9		2.9	10	ug/Kg-dry	1	29-Jun-2017 18:20
2-Nitrophenol	< 3.8		3.8	10	ug/Kg-dry	1	29-Jun-2017 18:20
3&4-Methylphenol	< 1.5		1.5	10	ug/Kg-dry	1	29-Jun-2017 18:20
3,3´-Dichlorobenzidine	< 3.8		3.8	10	ug/Kg-dry	1	29-Jun-2017 18:20
3-Nitroaniline	< 2.9		2.9	10	ug/Kg-dry	1	29-Jun-2017 18:20
4,6-Dinitro-2-methylphenol	< 3.2		3.2	10	ug/Kg-dry	1	29-Jun-2017 18:20
4-Bromophenyl phenyl ether	< 2.4		2.4	10	ug/Kg-dry	1	29-Jun-2017 18:20
4-Chloro-3-methylphenol	< 1.1		1.1	10	ug/Kg-dry	1	29-Jun-2017 18:20
4-Chloroaniline	< 1.7		1.7	10	ug/Kg-dry	1	29-Jun-2017 18:20
4-Chlorophenyl phenyl ether	< 2.3		2.3	10	ug/Kg-dry	1	29-Jun-2017 18:20
4-Nitroaniline	< 3.4		3.4	10	ug/Kg-dry	1	29-Jun-2017 18:20
4-Nitrophenol	< 2.9		2.9	20	ug/Kg-dry	1	29-Jun-2017 18:20
Acenaphthene	< 0.76		0.76	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Acenaphthylene	< 1.5		1.5	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Acetophenone	< 1.2		1.2	10	ug/Kg-dry	1	29-Jun-2017 18:20
Anthracene	< 0.76		0.76	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Atrazine	< 3.1		3.1	10	ug/Kg-dry	1	29-Jun-2017 18:20
Benz(a)anthracene	< 2.4		2.4	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Benzaldehyde	< 1.8		1.8	10	ug/Kg-dry	1	29-Jun-2017 18:20
Benzo(a)pyrene	< 1.5		1.5	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Benzo(b)fluoranthene	< 1.8		1.8	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Benzo(g,h,i)perylene	< 1.1		1.1	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Benzo(k)fluoranthene	< 1.4		1.4	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Bis(2-chloroethoxy)methane	< 1.4		1.4	10	ug/Kg-dry	1	29-Jun-2017 18:20
Bis(2-chloroethyl)ether	< 1.7		1.7	10	ug/Kg-dry	1	29-Jun-2017 18:20
Bis(2-chloroisopropyl)ether	< 2.1		2.1	10	ug/Kg-dry	1	29-Jun-2017 18:20

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-4
Collection Date: 20-Jun-2017 16:45

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-06
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3541 / 26-Jun-2017		Analyst: ACN
Bis(2-ethylhexyl)phthalate	**22**		**2.6**	**10**	**ug/Kg-dry**	1	29-Jun-2017 18:20
Butyl benzyl phthalate	< 2.0		2.0	10	ug/Kg-dry	1	29-Jun-2017 18:20
Caprolactam	< 1.8		1.8	10	ug/Kg-dry	1	29-Jun-2017 18:20
Carbazole	< 1.8		1.8	10	ug/Kg-dry	1	29-Jun-2017 18:20
Chrysene	< 1.2		1.2	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Dibenz(a,h)anthracene	< 2.4		2.4	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Dibenzofuran	< 1.1		1.1	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Diethyl phthalate	< 1.5		1.5	10	ug/Kg-dry	1	29-Jun-2017 18:20
Dimethyl phthalate	< 1.2		1.2	10	ug/Kg-dry	1	29-Jun-2017 18:20
Di-n-butyl phthalate	< 1.8		1.8	10	ug/Kg-dry	1	29-Jun-2017 18:20
Di-n-octyl phthalate	< 1.4		1.4	10	ug/Kg-dry	1	29-Jun-2017 18:20
Fluoranthene	< 1.7		1.7	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Fluorene	< 1.7		1.7	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Hexachlorobenzene	< 1.4		1.4	10	ug/Kg-dry	1	29-Jun-2017 18:20
Hexachlorobutadiene	< 1.8		1.8	10	ug/Kg-dry	1	29-Jun-2017 18:20
Hexachlorocyclopentadiene	< 1.2		1.2	10	ug/Kg-dry	1	29-Jun-2017 18:20
Hexachloroethane	< 2.3		2.3	10	ug/Kg-dry	1	29-Jun-2017 18:20
Indeno(1,2,3-cd)pyrene	< 1.2		1.2	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Isophorone	< 1.2		1.2	10	ug/Kg-dry	1	29-Jun-2017 18:20
Naphthalene	< 0.92		0.92	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Nitrobenzene	< 1.4		1.4	10	ug/Kg-dry	1	29-Jun-2017 18:20
N-Nitrosodi-n-propylamine	< 1.7		1.7	10	ug/Kg-dry	1	29-Jun-2017 18:20
N-Nitrosodiphenylamine	< 1.1		1.1	10	ug/Kg-dry	1	29-Jun-2017 18:20
Pentachlorophenol	< 5.0		5.0	10	ug/Kg-dry	1	29-Jun-2017 18:20
Phenanthrene	< 2.3		2.3	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Phenol	< 1.7		1.7	10	ug/Kg-dry	1	29-Jun-2017 18:20
Pyrene	< 0.92		0.92	5.0	ug/Kg-dry	1	29-Jun-2017 18:20
Surr: 2,4,6-Tribromophenol	*64.7*			*36-126*	*%REC*	*1*	*29-Jun-2017 18:20*
Surr: 2-Fluorobiphenyl	*52.2*			*43-125*	*%REC*	*1*	*29-Jun-2017 18:20*
Surr: 2-Fluorophenol	*56.1*			*37-125*	*%REC*	*1*	*29-Jun-2017 18:20*
Surr: 4-Terphenyl-d14	*74.9*			*32-125*	*%REC*	*1*	*29-Jun-2017 18:20*
Surr: Nitrobenzene-d5	*54.7*			*37-125*	*%REC*	*1*	*29-Jun-2017 18:20*
Surr: Phenol-d6	*56.8*			*40-125*	*%REC*	*1*	*29-Jun-2017 18:20*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**				Prep:SW3541 / 28-Jun-2017		Analyst: AAP
TPH (Diesel Range)	**1.6**	J	**0.76**	**2.6**	**mg/Kg-dry**	1	29-Jun-2017 05:07
TPH (Motor Oil Range)	**3.0**	J	**0.76**	**5.2**	**mg/Kg-dry**	1	29-Jun-2017 05:07
Surr: 2-Fluorobiphenyl	*68.3*			*60-129*	*%REC*	*1*	*29-Jun-2017 05:07*

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: SB-4
Collection Date: 20-Jun-2017 16:45

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-06
Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY SW6020A	**Method:SW6020**				Prep:SW3050A / 06-Jul-2017		Analyst: JDE
Arsenic	**121**		**0.143**	**0.714**	**mg/Kg-dry**	1	07-Jul-2017 01:18
Barium	**216**		**0.114**	**0.714**	**mg/Kg-dry**	1	07-Jul-2017 01:18
Cadmium	**27.1**		**0.0714**	**0.714**	**mg/Kg-dry**	1	07-Jul-2017 01:18
Chromium	**48.8**		**0.128**	**0.714**	**mg/Kg-dry**	1	07-Jul-2017 01:18
Lead	**8.50**		**0.0714**	**0.714**	**mg/Kg-dry**	1	07-Jul-2017 01:18
Selenium	**11.7**		**0.257**	**0.714**	**mg/Kg-dry**	1	07-Jul-2017 01:18
Silver	**0.756**		**0.114**	**0.714**	**mg/Kg-dry**	1	07-Jul-2017 01:18
MERCURY BY SW7471B	**Method:SW7471A**				Prep:SW7471A / 05-Jul-2017		Analyst: RPM
Mercury	**0.115**		**0.000774**	**0.00548**	**mg/Kg-dry**	1	07-Jul-2017 15:20
MOISTURE - ASTM D2216	**Method:ASTM D2216**						Analyst: DFF
Percent Moisture	**34.5**		**0.0100**	**0.0100**	**wt%**	1	27-Jun-2017 12:33

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: Trip Blank-1
Collection Date: 20-Jun-2017 00:00

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**						Analyst: PC
1,1,1-Trichloroethane	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15
1,1,2,2-Tetrachloroethane	< 0.50		0.50	1.0	ug/L	1	30-Jun-2017 20:15
1,1,2-Trichlor-1,2,2-trifluoroethane	< 1.0		1.0	1.0	ug/L	1	30-Jun-2017 20:15
1,1,2-Trichloroethane	< 0.30		0.30	1.0	ug/L	1	30-Jun-2017 20:15
1,1-Dichloroethane	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15
1,1-Dichloroethene	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15
1,2,4-Trichlorobenzene	< 0.50		0.50	1.0	ug/L	1	30-Jun-2017 20:15
1,2-Dibromo-3-chloropropane	< 1.0		1.0	1.0	ug/L	1	30-Jun-2017 20:15
1,2-Dibromoethane	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15
1,2-Dichlorobenzene	< 0.50		0.50	1.0	ug/L	1	30-Jun-2017 20:15
1,2-Dichloroethane	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15
1,2-Dichloropropane	< 0.50		0.50	1.0	ug/L	1	30-Jun-2017 20:15
1,3-Dichlorobenzene	< 0.40		0.40	1.0	ug/L	1	30-Jun-2017 20:15
1,4-Dichlorobenzene	< 0.40		0.40	1.0	ug/L	1	30-Jun-2017 20:15
2-Butanone	< 0.50		0.50	2.0	ug/L	1	30-Jun-2017 20:15
2-Hexanone	< 1.0		1.0	2.0	ug/L	1	30-Jun-2017 20:15
4-Methyl-2-pentanone	< 0.70		0.70	2.0	ug/L	1	30-Jun-2017 20:15
Acetone	< 2.0		2.0	2.0	ug/L	1	30-Jun-2017 20:15
Benzene	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15
Bromodichloromethane	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15
Bromoform	< 0.40		0.40	1.0	ug/L	1	30-Jun-2017 20:15
Bromomethane	< 0.40		0.40	1.0	ug/L	1	30-Jun-2017 20:15
Carbon disulfide	**1.4**	J	**0.60**	**2.0**	**ug/L**	1	30-Jun-2017 20:15
Carbon tetrachloride	< 0.50		0.50	1.0	ug/L	1	30-Jun-2017 20:15
Chlorobenzene	< 0.30		0.30	1.0	ug/L	1	30-Jun-2017 20:15
Chloroethane	< 0.30		0.30	1.0	ug/L	1	30-Jun-2017 20:15
Chloroform	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15
Chloromethane	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15
cis-1,2-Dichloroethene	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15
cis-1,3-Dichloropropene	< 0.10		0.10	1.0	ug/L	1	30-Jun-2017 20:15
Cyclohexane	< 0.30		0.30	1.0	ug/L	1	30-Jun-2017 20:15
Dibromochloromethane	< 0.30		0.30	1.0	ug/L	1	30-Jun-2017 20:15
Dichlorodifluoromethane	< 0.30		0.30	1.0	ug/L	1	30-Jun-2017 20:15
Ethylbenzene	< 0.30		0.30	1.0	ug/L	1	30-Jun-2017 20:15
Isopropylbenzene	< 0.30		0.30	1.0	ug/L	1	30-Jun-2017 20:15
m,p-Xylene	< 0.50		0.50	2.0	ug/L	1	30-Jun-2017 20:15
Methyl acetate	< 1.0		1.0	1.0	ug/L	1	30-Jun-2017 20:15
Methyl tert-butyl ether	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Sample ID: Trip Blank-1
Collection Date: 20-Jun-2017 00:00

ANALYTICAL REPORT
WorkOrder:HS17061403
Lab ID:HS17061403-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**						Analyst: PC
Methylcyclohexane	< 0.30		0.30	1.0	ug/L	1	30-Jun-2017 20:15
Methylene chloride	< 1.0		1.0	2.0	ug/L	1	30-Jun-2017 20:15
o-Xylene	< 0.30		0.30	1.0	ug/L	1	30-Jun-2017 20:15
Styrene	< 0.30		0.30	1.0	ug/L	1	30-Jun-2017 20:15
Tetrachloroethene	< 0.30		0.30	1.0	ug/L	1	30-Jun-2017 20:15
Toluene	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15
trans-1,2-Dichloroethene	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15
trans-1,3-Dichloropropene	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15
Trichloroethene	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15
Trichlorofluoromethane	< 0.30		0.30	1.0	ug/L	1	30-Jun-2017 20:15
Vinyl chloride	< 0.20		0.20	1.0	ug/L	1	30-Jun-2017 20:15
Xylenes, Total	< 0.30		0.30	1.0	ug/L	1	30-Jun-2017 20:15
Surr: 1,2-Dichloroethane-d4	*92.4*			*70-126*	*%REC*	*1*	*30-Jun-2017 20:15*
Surr: 4-Bromofluorobenzene	*103*			*81-113*	*%REC*	*1*	*30-Jun-2017 20:15*
Surr: Dibromofluoromethane	*75.6*	*S*		*77-123*	*%REC*	*1*	*30-Jun-2017 20:15*
Surr: Toluene-d8	*105*			*87-117*	*%REC*	*1*	*30-Jun-2017 20:15*

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

WEIGHT LOG

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

Batch ID: 1767 **Method:** VOLATILES BY SW8260C

SampID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS17061403-03	1	4.131000000 00001 (g)	5 (mL)	1.21	TerraCore (5035A)
HS17061403-04	1	3.647 (g)	5 (mL)	1.37	TerraCore (5035A)
HS17061403-05	1	4.581 (g)	5 (mL)	1.09	TerraCore (5035A)
HS17061403-06	1	4.413 (g)	5 (mL)	1.13	TerraCore (5035A)

Batch ID: 117478 **Method:** LOW-LEVEL SEMIVOLATILES BY 8270D **Prep:** 3541_B_LOW

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS17061403-03	1	30.04	1 (mL)	0.03329
HS17061403-04	1	30.08	1 (mL)	0.03324
HS17061403-06	1	30.02	1 (mL)	0.03331

Batch ID: 117569 **Method:** LOW-LEVEL SEMIVOLATILES BY 8270D **Prep:** 3541_B_LOW

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS17061403-05	1	30.07	1 (mL)	0.03326

Batch ID: 117570 **Method:** TPH DRO/ORO BY SW8015C **Prep:** 8015SPR_LL

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS17061403-03	1	30.07	1 (mL)	0.03326
HS17061403-04	1	30.09	1 (mL)	0.03323
HS17061403-05	1	30.08	1 (mL)	0.03324
HS17061403-06	1	30.06	1 (mL)	0.03327

Batch ID: 117765 **Method:** MERCURY BY SW7471B **Prep:** HG_S_LOWPR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS17061403-01	1	0.5546	40 (mL)	72.12
HS17061403-02	1	0.5599	40 (mL)	71.44
HS17061403-03	1	0.5571	40 (mL)	71.8
HS17061403-04	1	0.5593	40 (mL)	71.52
HS17061403-05	1	0.5586	40 (mL)	71.61
HS17061403-06	1	0.5559	40 (mL)	71.96

Batch ID: 117799 **Method:** METALS BY SW6020A **Prep:** 3050_I_LOW

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS17061403-01	1	0.5317	50 (mL)	94.04
HS17061403-02	1	0.5389	50 (mL)	92.78
HS17061403-03	1	0.54	50 (mL)	92.59
HS17061403-04	1	0.5376	50 (mL)	93.01
HS17061403-05	1	0.521	50 (mL)	95.97
HS17061403-06	1	0.5347	50 (mL)	93.51

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 117478	**Test Name :** LOW-LEVEL SEMIVOLATILES BY 8270D			**Matrix:** Soil		
HS17061403-03	SB-1	20 Jun 2017 14:49		26 Jun 2017 12:20	29 Jun 2017 17:41	1
HS17061403-04	SB-2	20 Jun 2017 15:18		26 Jun 2017 12:20	29 Jun 2017 18:00	1
HS17061403-06	SB-4	20 Jun 2017 16:45		26 Jun 2017 12:20	29 Jun 2017 18:20	1
Batch ID 117569	**Test Name :** LOW-LEVEL SEMIVOLATILES BY 8270D			**Matrix:** Soil		
HS17061403-05	SB-3	20 Jun 2017 16:20		28 Jun 2017 12:47	29 Jun 2017 11:54	1
Batch ID 117570	**Test Name :** TPH DRO/ORO BY SW8015C			**Matrix:** Soil		
HS17061403-03	SB-1	20 Jun 2017 14:49		28 Jun 2017 12:55	29 Jun 2017 02:43	1
HS17061403-04	SB-2	20 Jun 2017 15:18		28 Jun 2017 12:55	29 Jun 2017 03:07	1
HS17061403-05	SB-3	20 Jun 2017 16:20		28 Jun 2017 12:55	29 Jun 2017 03:55	1
HS17061403-06	SB-4	20 Jun 2017 16:45		28 Jun 2017 12:55	29 Jun 2017 05:07	1
Batch ID 117765	**Test Name :** MERCURY BY SW7471B			**Matrix:** Soil		
HS17061403-01	SS-1	21 Jun 2017 11:30		05 Jul 2017 13:54	07 Jul 2017 15:02	1
HS17061403-02	SS-2	21 Jun 2017 11:30		05 Jul 2017 13:54	07 Jul 2017 15:04	1
HS17061403-03	SB-1	20 Jun 2017 14:49		05 Jul 2017 13:54	07 Jul 2017 15:05	1
HS17061403-04	SB-2	20 Jun 2017 15:18		05 Jul 2017 13:54	07 Jul 2017 15:07	1
HS17061403-05	SB-3	20 Jun 2017 16:20		05 Jul 2017 13:54	07 Jul 2017 15:15	1
HS17061403-06	SB-4	20 Jun 2017 16:45		05 Jul 2017 13:54	07 Jul 2017 15:20	1
Batch ID 117799	**Test Name :** METALS BY SW6020A			**Matrix:** Soil		
HS17061403-01	SS-1	21 Jun 2017 11:30		06 Jul 2017 09:25	07 Jul 2017 00:25	1
HS17061403-02	SS-2	21 Jun 2017 11:30		06 Jul 2017 09:25	07 Jul 2017 00:30	1
HS17061403-03	SB-1	20 Jun 2017 14:49		06 Jul 2017 09:25	07 Jul 2017 00:35	1
HS17061403-04	SB-2	20 Jun 2017 15:18		06 Jul 2017 09:25	07 Jul 2017 00:40	1
HS17061403-05	SB-3	20 Jun 2017 16:20		06 Jul 2017 09:25	07 Jul 2017 00:45	1
HS17061403-06	SB-4	20 Jun 2017 16:45		06 Jul 2017 09:25	07 Jul 2017 01:18	1
Batch ID R297160	**Test Name :** VOLATILES BY SW8260C			**Matrix:** Soil		
HS17061403-03	SB-1	20 Jun 2017 14:49			27 Jun 2017 13:38	1
HS17061403-04	SB-2	20 Jun 2017 15:18			27 Jun 2017 14:02	1
HS17061403-05	SB-3	20 Jun 2017 16:20			27 Jun 2017 14:26	1
HS17061403-06	SB-4	20 Jun 2017 16:45			27 Jun 2017 14:49	1
Batch ID R297247	**Test Name :** MOISTURE - ASTM D2216			**Matrix:** Soil		
HS17061403-03	SB-1	20 Jun 2017 14:49			27 Jun 2017 12:33	1
HS17061403-04	SB-2	20 Jun 2017 15:18			27 Jun 2017 12:33	1
HS17061403-05	SB-3	20 Jun 2017 16:20			27 Jun 2017 12:33	1
HS17061403-06	SB-4	20 Jun 2017 16:45			27 Jun 2017 12:33	1

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R297333	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C			**Matrix:** Soil		
HS17061403-03	SB-1	20 Jun 2017 14:49			28 Jun 2017 20:51	1
HS17061403-04	SB-2	20 Jun 2017 15:18			28 Jun 2017 21:08	1
HS17061403-05	SB-3	20 Jun 2017 16:20			28 Jun 2017 21:57	1
HS17061403-06	SB-4	20 Jun 2017 16:45			28 Jun 2017 22:45	1
Batch ID R297400	**Test Name :** LOW LEVEL VOLATILES BY SW8260C			**Matrix:** Water		
HS17061403-07	Trip Blank-1	20 Jun 2017 00:00			30 Jun 2017 20:15	1
Batch ID R297401	**Test Name :** SUBCONTRACT ANALYSIS - ASBESTOS			**Matrix:** Soil		
HS17061403-01	SS-1	21 Jun 2017 11:30			30 Jun 2017 11:03	1
HS17061403-02	SS-2	21 Jun 2017 11:30			30 Jun 2017 11:03	1

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117570 **Instrument: FID-8** **Method: SW8015M**

MBLK Sample ID: **MBLK-117570** Units: **mg/Kg** Analysis Date: **28-Jun-2017 23:30**
Client ID: Run ID: **FID-8_297342** SeqNo: **4141170** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	< 0.50	1.7								
TPH (Motor Oil Range)	< 0.50	3.4								
Surr: 2-Fluorobiphenyl	*2.614*	*0.10*	*3.33*	*0*	*78.5*	*70 - 130*				

LCS Sample ID: **LCS-117570** Units: **mg/Kg** Analysis Date: **28-Jun-2017 23:55**
Client ID: Run ID: **FID-8_297342** SeqNo: **4141171** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	39.78	1.7	33.33	0	119	70 - 130				
TPH (Motor Oil Range)	35.02	3.4	33.33	0	105	70 - 130				
Surr: 2-Fluorobiphenyl	*3.423*	*0.10*	*3.33*	*0*	*103*	*70 - 130*				

MS Sample ID: **HS17061403-05MS** Units: **mg/Kg** Analysis Date: **29-Jun-2017 04:19**
Client ID: **SB-3** Run ID: **FID-8_297342** SeqNo: **4141181** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	44.35	1.7	33.25	1.893	128	70 - 130				
TPH (Motor Oil Range)	44.15	3.4	33.25	7.033	112	70 - 130				
Surr: 2-Fluorobiphenyl	*3.478*	*0.10*	*3.322*	*0*	*105*	*60 - 129*				

MS Sample ID: **HS17061402-08MS** Units: **mg/Kg** Analysis Date: **29-Jun-2017 01:55**
Client ID: Run ID: **FID-8_297342** SeqNo: **4141176** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	38.5	1.7	33.29	1.966	110	70 - 130				
TPH (Motor Oil Range)	40.82	3.4	33.29	8.443	97.3	70 - 130				
Surr: 2-Fluorobiphenyl	*2.103*	*0.10*	*3.326*	*0*	*63.2*	*60 - 129*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117570 **Instrument: FID-8** **Method: SW8015M**

MSD Sample ID: **HS17061403-05MSD** Units: **mg/Kg** Analysis Date: **29-Jun-2017 04:43**
Client ID: **SB-3** Run ID: **FID-8_297342** SeqNo: **4141182** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	44.11	1.7	33.27	1.893	127	70 - 130	44.35	0.55	30	
TPH (Motor Oil Range)	44.14	3.4	33.27	7.033	112	70 - 130	44.15	0.0238	30	
Surr: 2-Fluorobiphenyl	*3.45*	*0.10*	*3.324*	*0*	*104*	*60 - 129*	*3.478*	*0.823*	*30*	

MSD Sample ID: **HS17061402-08MSD** Units: **mg/Kg** Analysis Date: **29-Jun-2017 02:19**
Client ID: Run ID: **FID-8_297342** SeqNo: **4141177** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	36.52	1.7	33.26	1.966	104	70 - 130	38.5	5.28	30	
TPH (Motor Oil Range)	40.06	3.4	33.26	8.443	95.1	70 - 130	40.82	1.88	30	
Surr: 2-Fluorobiphenyl	*2.679*	*0.10*	*3.323*	*0*	*80.6*	*60 - 129*	*2.103*	*24.1*	*30*	

The following samples were analyzed in this batch: HS17061403-03 HS17061403-04 HS17061403-05 HS17061403-06

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297333 **Instrument: FID-14** **Method: SW8015**

MBLK Sample ID: **GBLK-170628** Units: **mg/Kg** Analysis Date: **28-Jun-2017 18:58**
Client ID: Run ID: **FID-14_297333** SeqNo: **4140629** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	< 0.010	0.050								
Surr: 4-Bromofluorobenzene	*0.08411*	*0.0050*	*0.1*	*0*	*84.1*	*70 - 117*				

LCS Sample ID: **GLCS-170628** Units: **mg/Kg** Analysis Date: **28-Jun-2017 18:42**
Client ID: Run ID: **FID-14_297333** SeqNo: **4140628** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.059	0.050	1	0	106	72 - 121				
Surr: 4-Bromofluorobenzene	*0.1011*	*0.0050*	*0.1*	*0*	*101*	*70 - 117*				

MS Sample ID: **HS17061403-05MS** Units: **mg/Kg** Analysis Date: **28-Jun-2017 22:13**
Client ID: **SB-3** Run ID: **FID-14_297333** SeqNo: **4140643** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.815	0.050	0.99	0	82.3	70 - 130				
Surr: 4-Bromofluorobenzene	*0.0694*	*0.0050*	*0.099*	*0*	*70.1*	*70 - 123*				

MS Sample ID: **HS17061402-08MS** Units: **mg/Kg** Analysis Date: **28-Jun-2017 20:19**
Client ID: Run ID: **FID-14_297333** SeqNo: **4140636** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.7172	0.039	0.78	0	92.0	70 - 130				
Surr: 4-Bromofluorobenzene	*0.06312*	*0.0039*	*0.078*	*0*	*80.9*	*70 - 123*				

MSD Sample ID: **HS17061403-05MSD** Units: **mg/Kg** Analysis Date: **28-Jun-2017 22:29**
Client ID: **SB-3** Run ID: **FID-14_297333** SeqNo: **4140644** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9555	0.052	1.05	0	91.0	70 - 130	0.815	15.9	30	
Surr: 4-Bromofluorobenzene	*0.07477*	*0.0052*	*0.105*	*0*	*71.2*	*70 - 123*	*0.0694*	*7.44*	*30*	

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297333 **Instrument: FID-14** **Method: SW8015**

MSD Sample ID: **HS17061402-08MSD** Units: **mg/Kg** Analysis Date: **28-Jun-2017 20:35**
Client ID: Run ID: **FID-14_297333** SeqNo: **4140637** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.7338	0.039	0.78	0	94.1	70 - 130	0.7172	2.28	30	
Surr: 4-Bromofluorobenzene	*0.06465*	*0.0039*	*0.078*	*0*	*82.9*	*70 - 123*	*0.06312*	*2.39*	*30*	

The following samples were analyzed in this batch: HS17061403-03 HS17061403-04 HS17061403-05 HS17061403-06

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117765 **Instrument: HG03** **Method: SW7471A**

MBLK Sample ID: **MBLK-117765** Units: **ug/Kg** Analysis Date: **07-Jul-2017 14:33**
Client ID: Run ID: **HG03_297762** SeqNo: **4150082** PrepDate: **05-Jul-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	< 0.470	3.32								

LCS Sample ID: **LCS-117765** Units: **ug/Kg** Analysis Date: **07-Jul-2017 14:35**
Client ID: Run ID: **HG03_297762** SeqNo: **4150083** PrepDate: **05-Jul-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	359.3	3.32	333.3	0	108	85 - 115				

MS Sample ID: **HS17061403-05MS** Units: **ug/Kg** Analysis Date: **07-Jul-2017 16:39**
Client ID: **SB-3** Run ID: **HG03_297762** SeqNo: **4150217** PrepDate: **05-Jul-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	530.6	3.59	359.5	118.2	115	85 - 115				

MSD Sample ID: **HS17061403-05MSD** Units: **ug/Kg** Analysis Date: **07-Jul-2017 15:18**
Client ID: **SB-3** Run ID: **HG03_297762** SeqNo: **4150105** PrepDate: **05-Jul-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	529.9	3.61	361.5	118.2	114	85 - 115	538.5	1.6	20	

The following samples were analyzed in this batch: HS17061403-01 HS17061403-02 HS17061403-03 HS17061403-04 HS17061403-05 HS17061403-06

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117799 **Instrument: ICPMS04** **Method: SW6020**

MBLK Sample ID: **MBLK-117799** Units: **mg/Kg** Analysis Date: **07-Jul-2017 00:15**
Client ID: Run ID: **ICPMS04_297666** SeqNo: **4148985** PrepDate: **06-Jul-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	< 0.100	0.500								
Barium	< 0.0800	0.500								
Cadmium	< 0.0500	0.500								
Chromium	< 0.0900	0.500								
Lead	< 0.0500	0.500								
Selenium	< 0.180	0.500								
Silver	< 0.0800	0.500								

LCS Sample ID: **LCS-117799** Units: **mg/Kg** Analysis Date: **07-Jul-2017 00:20**
Client ID: Run ID: **ICPMS04_297666** SeqNo: **4148986** PrepDate: **06-Jul-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.253	0.500	10	0	92.5	80 - 120				
Barium	9.449	0.500	10	0	94.5	80 - 120				
Cadmium	9.567	0.500	10	0	95.7	80 - 120				
Chromium	9.426	0.500	10	0	94.3	80 - 120				
Lead	9.756	0.500	10	0	97.6	80 - 120				
Selenium	9.187	0.500	10	0	91.9	80 - 120				
Silver	9.599	0.500	10	0	96.0	80 - 120				

MS Sample ID: **HS17061403-05MS** Units: **mg/Kg** Analysis Date: **07-Jul-2017 01:04**
Client ID: **SB-3** Run ID: **ICPMS04_297666** SeqNo: **4148995** PrepDate: **06-Jul-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	15.91	0.474	9.479	8.019	83.3	75 - 125				
Barium	102.8	0.474	9.479	48.34	575	75 - 125				SO
Cadmium	9.295	0.474	9.479	0.2182	95.8	75 - 125				
Chromium	17.86	0.474	9.479	3.176	155	75 - 125				S
Lead	23.33	0.474	9.479	18.26	53.4	75 - 125				S
Selenium	11.16	0.474	9.479	2.604	90.2	75 - 125				
Silver	9.016	0.474	9.479	0.0999	94.1	75 - 125				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117799 **Instrument: ICPMS04** **Method: SW6020**

MSD Sample ID: **HS17061403-05MSD** Units: **mg/Kg** Analysis Date: **07-Jul-2017 01:08**
Client ID: **SB-3** Run ID: **ICPMS04_297666** SeqNo: **4148996** PrepDate: **06-Jul-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	17.37	0.478	9.551	8.019	97.9	75 - 125	15.91	8.77	20	
Barium	76.94	0.478	9.551	48.34	299	75 - 125	102.8	28.8	20	SRO
Cadmium	9.45	0.478	9.551	0.2182	96.7	75 - 125	9.295	1.65	20	
Chromium	16.48	0.478	9.551	3.176	139	75 - 125	17.86	8	20	S
Lead	24.69	0.478	9.551	18.26	67.3	75 - 125	23.33	5.67	20	S
Selenium	12.55	0.478	9.551	2.604	104	75 - 125	11.16	11.7	20	
Silver	9.347	0.478	9.551	0.0999	96.8	75 - 125	9.016	3.6	20	

PDS Sample ID: **HS17061403-05PDS** Units: **mg/Kg** Analysis Date: **07-Jul-2017 14:13**
Client ID: **SB-3** Run ID: **ICPMS04_297727** SeqNo: **4149743** PrepDate: **06-Jul-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	16.9	0.500	10	7.921	89.7	75 - 125				
Barium	57.27	0.500	10	46.97	103	75 - 125				O
Cadmium	9.288	0.500	10	0.2036	90.8	75 - 125				
Chromium	11.57	0.500	10	2.982	85.8	75 - 125				
Lead	26.45	0.500	10	17.38	90.7	75 - 125				
Selenium	11.61	0.500	10	3.039	85.7	75 - 125				
Silver	9.69	0.500	10	0.09952	95.9	75 - 125				

SD Sample ID: **HS17061403-05SD** Units: **mg/Kg** Analysis Date: **07-Jul-2017 00:49**
Client ID: **SB-3** Run ID: **ICPMS04_297666** SeqNo: **4148992** PrepDate: **06-Jul-2017** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	8.664	2.50					8.019	8.05	10	
Barium	49.39	2.50					48.34	2.16	10	
Cadmium	< 0.250	2.50					0.2182	0	10	
Chromium	3.429	2.50					3.176	7.97	10	
Lead	20.27	2.50					18.26	11	10	R
Selenium	3.007	2.50					2.604	15.5	10	R
Silver	< 0.400	2.50					0.0999	0	10	

The following samples were analyzed in this batch: HS17061403-01 HS17061403-02 HS17061403-03 HS17061403-04 HS17061403-05 HS17061403-06

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117478 **Instrument: SV-6** **Method: SW8270**

MBLK Sample ID: **MBLK-117478** Units: **ug/Kg** Analysis Date: **28-Jun-2017 16:38**
Client ID: Run ID: **SV-6_297308** SeqNo: **4140276** PrepDate: **26-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1´-Biphenyl	< 1.7	6.6								
2,4,5-Trichlorophenol	< 2.5	6.6								
2,4,6-Trichlorophenol	< 1.7	6.6								
2,4-Dichlorophenol	< 1.3	6.6								
2,4-Dimethylphenol	< 3.3	6.6								
2,4-Dinitrophenol	< 4.5	13								
2,4-Dinitrotoluene	< 0.90	6.6								
2,6-Dinitrotoluene	< 3.3	6.6								
2-Chloronaphthalene	< 1.3	6.6								
2-Chlorophenol	< 1.3	6.6								
2-Methylnaphthalene	< 0.50	3.3								
2-Methylphenol	< 1.1	6.6								
2-Nitroaniline	< 1.9	6.6								
2-Nitrophenol	< 2.5	6.6								
3&4-Methylphenol	< 1.0	6.6								
3,3´-Dichlorobenzidine	< 2.5	6.6								
3-Nitroaniline	< 1.9	6.6								
4,6-Dinitro-2-methylphenol	< 2.1	6.6								
4-Bromophenyl phenyl ether	< 1.6	6.6								
4-Chloro-3-methylphenol	< 0.70	6.6								
4-Chloroaniline	< 1.1	6.6								
4-Chlorophenyl phenyl ether	< 1.5	6.6								
4-Nitroaniline	< 2.2	6.6								
4-Nitrophenol	< 1.9	13								
Acenaphthene	< 0.50	3.3								
Acenaphthylene	< 1.0	3.3								
Acetophenone	< 0.80	6.6								
Anthracene	< 0.50	3.3								
Atrazine	< 2.0	6.6								
Benz(a)anthracene	< 1.6	3.3								
Benzaldehyde	< 1.2	6.6								
Benzo(a)pyrene	< 1.0	3.3								
Benzo(b)fluoranthene	< 1.2	3.3								
Benzo(g,h,i)perylene	< 0.70	3.3								

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117478 **Instrument: SV-6** **Method: SW8270**

MBLK Sample ID: **MBLK-117478** Units: **ug/Kg** Analysis Date: **28-Jun-2017 16:38**
Client ID: Run ID: **SV-6_297308** SeqNo: **4140276** PrepDate: **26-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(k)fluoranthene	< 0.90	3.3								
Bis(2-chloroethoxy)methane	< 0.90	6.6								
Bis(2-chloroethyl)ether	< 1.1	6.6								
Bis(2-chloroisopropyl)ether	< 1.4	6.6								
Bis(2-ethylhexyl)phthalate	< 1.7	6.6								
Butyl benzyl phthalate	< 1.3	6.6								
Caprolactam	< 1.2	6.6								
Carbazole	< 1.2	6.6								
Chrysene	< 0.80	3.3								
Dibenz(a,h)anthracene	< 1.6	3.3								
Dibenzofuran	< 0.70	3.3								
Diethyl phthalate	< 1.0	6.6								
Dimethyl phthalate	< 0.80	6.6								
Di-n-butyl phthalate	< 1.2	6.6								
Di-n-octyl phthalate	< 0.90	6.6								
Fluoranthene	< 1.1	3.3								
Fluorene	< 1.1	3.3								
Hexachlorobenzene	< 0.90	6.6								
Hexachlorobutadiene	< 1.2	6.6								
Hexachlorocyclopentadiene	< 0.80	6.6								
Hexachloroethane	< 1.5	6.6								
Indeno(1,2,3-cd)pyrene	< 0.80	3.3								
Isophorone	< 0.80	6.6								
Naphthalene	< 0.60	3.3								
Nitrobenzene	< 0.90	6.6								
N-Nitrosodi-n-propylamine	< 1.1	6.6								
N-Nitrosodiphenylamine	< 0.70	6.6								
Pentachlorophenol	< 3.3	6.6								
Phenanthrene	< 1.5	3.3								
Phenol	< 1.1	6.6								
Pyrene	< 0.60	3.3								
Surr: 2,4,6-Tribromophenol	*127.8*	*0*	*167*	*0*	*76.5*	*36 - 126*				
Surr: 2-Fluorobiphenyl	*134.8*	*0*	*167*	*0*	*80.7*	*43 - 125*				
Surr: 2-Fluorophenol	*142.9*	*0*	*167*	*0*	*85.6*	*37 - 125*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117478 **Instrument: SV-6** **Method: SW8270**

MBLK Sample ID: **MBLK-117478** Units: **ug/Kg** Analysis Date: **28-Jun-2017 16:38**
Client ID: Run ID: **SV-6_297308** SeqNo: **4140276** PrepDate: **26-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr: 4-Terphenyl-d14	*147.5*	*0*	*167*	*0*	*88.3*	*32 - 125*				
Surr: Nitrobenzene-d5	*140.5*	*0*	*167*	*0*	*84.1*	*37 - 125*				
Surr: Phenol-d6	*147.1*	*0*	*167*	*0*	*88.1*	*40 - 125*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117478 **Instrument: SV-6** **Method: SW8270**

LCS Sample ID: **LCS-117478** Units: **ug/Kg** Analysis Date: **28-Jun-2017 16:57**
Client ID: Run ID: **SV-6_297308** SeqNo: **4140277** PrepDate: **26-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1´-Biphenyl	125	6.6	167	0	74.8	50 - 120				
2,4,5-Trichlorophenol	136.2	6.6	167	0	81.5	45 - 127				
2,4,6-Trichlorophenol	130.5	6.6	167	0	78.1	45 - 130				
2,4-Dichlorophenol	129.1	6.6	167	0	77.3	45 - 125				
2,4-Dimethylphenol	124.1	6.6	167	0	74.3	45 - 120				
2,4-Dinitrophenol	68.86	13	167	0	41.2	10 - 126				
2,4-Dinitrotoluene	107.2	6.6	167	0	64.2	50 - 130				
2,6-Dinitrotoluene	148.5	6.6	167	0	88.9	50 - 125				
2-Chloronaphthalene	130.5	6.6	167	0	78.1	50 - 145				
2-Chlorophenol	121	6.6	167	0	72.5	45 - 120				
2-Methylnaphthalene	121.3	3.3	167	0	72.6	50 - 120				
2-Methylphenol	125.1	6.6	167	0	74.9	45 - 120				
2-Nitroaniline	181	6.6	167	0	108	45 - 138				
2-Nitrophenol	108.8	6.6	167	0	65.1	45 - 125				
3&4-Methylphenol	124.2	6.6	167	0	74.4	45 - 120				
3,3´-Dichlorobenzidine	183.1	6.6	167	0	110	15 - 120				
3-Nitroaniline	168.2	6.6	167	0	101	40 - 120				
4,6-Dinitro-2-methylphenol	106.1	6.6	167	0	63.6	15 - 135				
4-Bromophenyl phenyl ether	120.9	6.6	167	0	72.4	50 - 125				
4-Chloro-3-methylphenol	142.2	6.6	167	0	85.1	45 - 130				
4-Chloroaniline	160.6	6.6	167	0	96.2	20 - 120				
4-Chlorophenyl phenyl ether	121.7	6.6	167	0	72.9	50 - 120				
4-Nitroaniline	168.1	6.6	167	0	101	50 - 127				
4-Nitrophenol	155.7	13	167	0	93.2	40 - 147				
Acenaphthene	113	3.3	167	0	67.7	50 - 120				
Acenaphthylene	120.2	3.3	167	0	72.0	50 - 120				
Acetophenone	121.9	6.6	167	0	73.0	50 - 120				
Anthracene	129.6	3.3	167	0	77.6	50 - 123				
Atrazine	146.7	6.6	167	0	87.9	29 - 148				
Benz(a)anthracene	135	3.3	167	0	80.9	50 - 131				
Benzaldehyde	39.51	6.6	167	0	23.7	22 - 129				
Benzo(a)pyrene	128.9	3.3	167	0	77.2	50 - 130				
Benzo(b)fluoranthene	142.9	3.3	167	0	85.5	50 - 137				
Benzo(g,h,i)perylene	128.8	3.3	167	0	77.1	50 - 130				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117478 **Instrument: SV-6** **Method: SW8270**

LCS Sample ID: **LCS-117478** Units: **ug/Kg** Analysis Date: **28-Jun-2017 16:57**
Client ID: Run ID: **SV-6_297308** SeqNo: **4140277** PrepDate: **26-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(k)fluoranthene	119.2	3.3	167	0	71.4	50 - 143				
Bis(2-chloroethoxy)methane	133.1	6.6	167	0	79.7	50 - 120				
Bis(2-chloroethyl)ether	123.1	6.6	167	0	73.7	45 - 127				
Bis(2-chloroisopropyl)ether	139.9	6.6	167	0	83.7	50 - 120				
Bis(2-ethylhexyl)phthalate	147.8	6.6	167	0	88.5	21 - 148				
Butyl benzyl phthalate	149.7	6.6	167	0	89.6	50 - 136				
Caprolactam	124.8	6.6	167	0	74.7	50 - 135				
Carbazole	221.2	6.6	167	0	132	50 - 143				
Chrysene	133.1	3.3	167	0	79.7	50 - 130				
Dibenz(a,h)anthracene	132.2	3.3	167	0	79.2	50 - 130				
Dibenzofuran	125	3.3	167	0	74.8	50 - 125				
Diethyl phthalate	131.3	6.6	167	0	78.6	50 - 125				
Dimethyl phthalate	123.9	6.6	167	0	74.2	50 - 125				
Di-n-butyl phthalate	137.5	6.6	167	0	82.3	50 - 140				
Di-n-octyl phthalate	148.9	6.6	167	0	89.1	50 - 140				
Fluoranthene	130	3.3	167	0	77.8	50 - 131				
Fluorene	126	3.3	167	0	75.4	50 - 125				
Hexachlorobenzene	120.2	6.6	167	0	72.0	50 - 124				
Hexachlorobutadiene	130.1	6.6	167	0	77.9	50 - 125				
Hexachlorocyclopentadiene	119.4	6.6	167	0	71.5	45 - 135				
Hexachloroethane	133.6	6.6	167	0	80.0	45 - 125				
Indeno(1,2,3-cd)pyrene	120.6	3.3	167	0	72.2	45 - 139				
Isophorone	130.1	6.6	167	0	77.9	45 - 130				
Naphthalene	123.6	3.3	167	0	74.0	50 - 125				
Nitrobenzene	133.8	6.6	167	0	80.1	50 - 125				
N-Nitrosodi-n-propylamine	128.4	6.6	167	0	76.9	45 - 120				
N-Nitrosodiphenylamine	133.4	6.6	167	0	79.9	50 - 130				
Pentachlorophenol	110	6.6	167	0	65.9	23 - 136				
Phenanthrene	128.8	3.3	167	0	77.1	50 - 125				
Phenol	123.5	6.6	167	0	73.9	45 - 130				
Pyrene	140	3.3	167	0	83.8	45 - 130				
Surr: 2,4,6-Tribromophenol	*140.1*	*0*	*167*	*0*	*83.9*	*36 - 126*				
Surr: 2-Fluorobiphenyl	*123.4*	*0*	*167*	*0*	*73.9*	*43 - 125*				
Surr: 2-Fluorophenol	*121.6*	*0*	*167*	*0*	*72.8*	*37 - 125*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117478 **Instrument: SV-6** **Method: SW8270**

LCS Sample ID: **LCS-117478** Units: **ug/Kg** Analysis Date: **28-Jun-2017 16:57**
Client ID: Run ID: **SV-6_297308** SeqNo: **4140277** PrepDate: **26-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr: 4-Terphenyl-d14	*138.3*	*0*	*167*	*0*	*82.8*	*32 - 125*				
Surr: Nitrobenzene-d5	*130*	*0*	*167*	*0*	*77.9*	*37 - 125*				
Surr: Phenol-d6	*134.1*	*0*	*167*	*0*	*80.3*	*40 - 125*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117478 **Instrument: SV-6** **Method: SW8270**

MS Sample ID: **HS17061402-08MS** Units: **ug/Kg** Analysis Date: **28-Jun-2017 20:47**
Client ID: Run ID: **SV-6_297308** SeqNo: **4140388** PrepDate: **26-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1´-Biphenyl	76.88	6.6	166.8	0	46.1	50 - 120				S
2,4,5-Trichlorophenol	98.06	6.6	166.8	0	58.8	45 - 127				
2,4,6-Trichlorophenol	87.79	6.6	166.8	0	52.6	45 - 130				
2,4-Dichlorophenol	75.73	6.6	166.8	0	45.4	45 - 125				
2,4-Dimethylphenol	72.32	6.6	166.8	0	43.4	45 - 120				S
2,4-Dinitrophenol	61.55	13	166.8	0	36.9	10 - 126				
2,4-Dinitrotoluene	71.22	6.6	166.8	0	42.7	50 - 130				S
2,6-Dinitrotoluene	98.66	6.6	166.8	0	59.2	50 - 125				
2-Chloronaphthalene	79.68	6.6	166.8	0	47.8	50 - 145				S
2-Chlorophenol	77.87	6.6	166.8	0	46.7	45 - 120				
2-Methylnaphthalene	77.14	3.3	166.8	0	46.3	50 - 120				S
2-Methylphenol	82.19	6.6	166.8	0	49.3	45 - 120				
2-Nitroaniline	128.6	6.6	166.8	0	77.1	45 - 138				
2-Nitrophenol	76.22	6.6	166.8	0	45.7	45 - 125				
3&4-Methylphenol	84.31	6.6	166.8	0	50.6	45 - 120				
3,3´-Dichlorobenzidine	129.4	6.6	166.8	0	77.6	15 - 120				
3-Nitroaniline	116	6.6	166.8	0	69.5	40 - 120				
4,6-Dinitro-2-methylphenol	78.24	6.6	166.8	0	46.9	15 - 135				
4-Bromophenyl phenyl ether	85.67	6.6	166.8	0	51.4	50 - 125				
4-Chloro-3-methylphenol	97.12	6.6	166.8	0	58.2	45 - 130				
4-Chloroaniline	78.65	6.6	166.8	0	47.2	20 - 120				
4-Chlorophenyl phenyl ether	84.37	6.6	166.8	0	50.6	50 - 120				
4-Nitroaniline	134.6	6.6	166.8	0	80.7	50 - 127				
4-Nitrophenol	107.4	13	166.8	0	64.4	40 - 147				
Acenaphthene	74.81	3.3	166.8	0	44.9	50 - 120				S
Acenaphthylene	80.72	3.3	166.8	0	48.4	50 - 120				S
Acetophenone	72.69	6.6	166.8	0	43.6	50 - 120				S
Anthracene	101.2	3.3	166.8	0	60.7	50 - 123				
Atrazine	119	6.6	166.8	0	71.4	29 - 148				
Benz(a)anthracene	111.4	3.3	166.8	1.211	66.1	50 - 131				
Benzaldehyde	36.24	6.6	166.8	0	21.7	22 - 129				S
Benzo(a)pyrene	105.7	3.3	166.8	1.283	62.6	50 - 130				
Benzo(b)fluoranthene	120.5	3.3	166.8	1.473	71.3	50 - 137				
Benzo(g,h,i)perylene	110.3	3.3	166.8	0	66.1	50 - 130				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117478 **Instrument: SV-6** **Method: SW8270**

MS Sample ID: **HS17061402-08MS** Units: **ug/Kg** Analysis Date: **28-Jun-2017 20:47**
Client ID: Run ID: **SV-6_297308** SeqNo: **4140388** PrepDate: **26-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(k)fluoranthene	108.5	3.3	166.8	1.047	64.4	50 - 143				
Bis(2-chloroethoxy)methane	79.22	6.6	166.8	0	47.5	50 - 120				S
Bis(2-chloroethyl)ether	83.26	6.6	166.8	0	49.9	45 - 127				
Bis(2-chloroisopropyl)ether	82.94	6.6	166.8	0	49.7	50 - 120				S
Bis(2-ethylhexyl)phthalate	130.3	6.6	166.8	11.27	71.4	21 - 148				
Butyl benzyl phthalate	122.8	6.6	166.8	0	73.6	50 - 136				
Caprolactam	97.42	6.6	166.8	0	58.4	50 - 135				
Carbazole	190.9	6.6	166.8	0	114	50 - 143				
Chrysene	109.7	3.3	166.8	1.461	64.9	50 - 130				
Dibenz(a,h)anthracene	109.5	3.3	166.8	0	65.6	50 - 130				
Dibenzofuran	83.48	3.3	166.8	0	50.1	50 - 125				
Diethyl phthalate	98.82	6.6	166.8	0	59.3	50 - 125				
Dimethyl phthalate	86.45	6.6	166.8	0	51.8	50 - 125				
Di-n-butyl phthalate	107.2	6.6	166.8	0	64.3	50 - 140				
Di-n-octyl phthalate	122.1	6.6	166.8	0	73.2	50 - 140				
Fluoranthene	104.3	3.3	166.8	1.858	61.4	50 - 131				
Fluorene	90.69	3.3	166.8	0	54.4	50 - 125				
Hexachlorobenzene	91.16	6.6	166.8	0	54.7	50 - 124				
Hexachlorobutadiene	72.65	6.6	166.8	0	43.6	50 - 125				S
Hexachlorocyclopentadiene	66.46	6.6	166.8	0	39.8	45 - 135				S
Hexachloroethane	82.2	6.6	166.8	0	49.3	45 - 125				
Indeno(1,2,3-cd)pyrene	120.8	3.3	166.8	0	72.4	45 - 139				
Isophorone	78.36	6.6	166.8	0	47.0	45 - 130				
Naphthalene	76.03	3.3	166.8	0	45.6	50 - 125				S
Nitrobenzene	80.58	6.6	166.8	0	48.3	50 - 125				S
N-Nitrosodi-n-propylamine	81.02	6.6	166.8	0	48.6	45 - 120				
N-Nitrosodiphenylamine	103.3	6.6	166.8	0	61.9	50 - 130				
Pentachlorophenol	97.82	6.6	166.8	0	58.7	23 - 136				
Phenanthrene	101	3.3	166.8	0	60.5	50 - 125				
Phenol	83.84	6.6	166.8	0	50.3	45 - 130				
Pyrene	115.7	3.3	166.8	2.233	68.0	45 - 130				
Surr: 2,4,6-Tribromophenol	*103.7*	*0*	*166.8*	*0*	*62.2*	*36 - 126*				
Surr: 2-Fluorobiphenyl	*77.49*	*0*	*166.8*	*0*	*46.5*	*43 - 125*				
Surr: 2-Fluorophenol	*82.79*	*0*	*166.8*	*0*	*49.6*	*37 - 125*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117478 **Instrument: SV-6** **Method: SW8270**

MS Sample ID: **HS17061402-08MS** Units: **ug/Kg** Analysis Date: **28-Jun-2017 20:47**
Client ID: Run ID: **SV-6_297308** SeqNo: **4140388** PrepDate: **26-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr: 4-Terphenyl-d14	*112*	*0*	*166.8*	*0*	*67.1*	*32 - 125*				
Surr: Nitrobenzene-d5	*81.34*	*0*	*166.8*	*0*	*48.8*	*37 - 125*				
Surr: Phenol-d6	*85.5*	*0*	*166.8*	*0*	*51.3*	*40 - 125*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117478 **Instrument: SV-6** **Method: SW8270**

MSD Sample ID: **HS17061402-08MSD** Units: **ug/Kg** Analysis Date: **28-Jun-2017 21:06**
Client ID: Run ID: **SV-6_297308** SeqNo: **4140389** PrepDate: **26-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1´-Biphenyl	83.63	6.6	166.6	0	50.2	50 - 120	76.88	8.41	30	
2,4,5-Trichlorophenol	110.5	6.6	166.6	0	66.3	45 - 127	98.06	11.9	30	
2,4,6-Trichlorophenol	86.44	6.6	166.6	0	51.9	45 - 130	87.79	1.55	30	
2,4-Dichlorophenol	83.07	6.6	166.6	0	49.9	45 - 125	75.73	9.24	30	
2,4-Dimethylphenol	77.41	6.6	166.6	0	46.5	45 - 120	72.32	6.8	30	
2,4-Dinitrophenol	65.71	13	166.6	0	39.5	10 - 126	61.55	6.54	30	
2,4-Dinitrotoluene	76.05	6.6	166.6	0	45.7	50 - 130	71.22	6.56	30	S
2,6-Dinitrotoluene	105.4	6.6	166.6	0	63.3	50 - 125	98.66	6.56	30	
2-Chloronaphthalene	81.7	6.6	166.6	0	49.1	50 - 145	79.68	2.51	30	S
2-Chlorophenol	86.57	6.6	166.6	0	52.0	45 - 120	77.87	10.6	30	
2-Methylnaphthalene	82.85	3.3	166.6	0	49.7	50 - 120	77.14	7.13	30	S
2-Methylphenol	87.99	6.6	166.6	0	52.8	45 - 120	82.19	6.82	30	
2-Nitroaniline	132.5	6.6	166.6	0	79.6	45 - 138	128.6	3.01	30	
2-Nitrophenol	72.48	6.6	166.6	0	43.5	45 - 125	76.22	5.04	30	S
3&4-Methylphenol	89.52	6.6	166.6	0	53.7	45 - 120	84.31	6	30	
3,3´-Dichlorobenzidine	138.4	6.6	166.6	0	83.1	15 - 120	129.4	6.77	30	
3-Nitroaniline	127.1	6.6	166.6	0	76.3	40 - 120	116	9.16	30	
4,6-Dinitro-2-methylphenol	85.22	6.6	166.6	0	51.2	15 - 135	78.24	8.54	30	
4-Bromophenyl phenyl ether	88.34	6.6	166.6	0	53.0	50 - 125	85.67	3.06	30	
4-Chloro-3-methylphenol	99	6.6	166.6	0	59.4	45 - 130	97.12	1.91	30	
4-Chloroaniline	79.53	6.6	166.6	0	47.7	20 - 120	78.65	1.11	30	
4-Chlorophenyl phenyl ether	88.23	6.6	166.6	0	53.0	50 - 120	84.37	4.47	30	
4-Nitroaniline	134.9	6.6	166.6	0	81.0	50 - 127	134.6	0.262	30	
4-Nitrophenol	133.7	13	166.6	0	80.3	40 - 147	107.4	21.8	30	
Acenaphthene	80.05	3.3	166.6	0	48.1	50 - 120	74.81	6.76	30	S
Acenaphthylene	85.38	3.3	166.6	0	51.3	50 - 120	80.72	5.61	30	
Acetophenone	76.67	6.6	166.6	0	46.0	50 - 120	72.69	5.32	30	S
Anthracene	102.9	3.3	166.6	0	61.8	50 - 123	101.2	1.65	30	
Atrazine	124.8	6.6	166.6	0	74.9	29 - 148	119	4.75	30	
Benz(a)anthracene	111.7	3.3	166.6	1.211	66.4	50 - 131	111.4	0.327	30	
Benzaldehyde	33.47	6.6	166.6	0	20.1	22 - 129	36.24	7.95	30	S
Benzo(a)pyrene	108.7	3.3	166.6	1.283	64.5	50 - 130	105.7	2.8	30	
Benzo(b)fluoranthene	127.3	3.3	166.6	1.473	75.5	50 - 137	120.5	5.5	30	
Benzo(g,h,i)perylene	112	3.3	166.6	0	67.2	50 - 130	110.3	1.48	30	

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117478 **Instrument: SV-6** **Method: SW8270**

MSD Sample ID: **HS17061402-08MSD** Units: **ug/Kg** Analysis Date: **28-Jun-2017 21:06**
Client ID: Run ID: **SV-6_297308** SeqNo: **4140389** PrepDate: **26-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzo(k)fluoranthene	110.1	3.3	166.6	1.047	65.5	50 - 143	108.5	1.54	30	
Bis(2-chloroethoxy)methane	86.17	6.6	166.6	0	51.7	50 - 120	79.22	8.41	30	
Bis(2-chloroethyl)ether	88.93	6.6	166.6	0	53.4	45 - 127	83.26	6.59	30	
Bis(2-chloroisopropyl)ether	89.9	6.6	166.6	0	54.0	50 - 120	82.94	8.05	30	
Bis(2-ethylhexyl)phthalate	134.3	6.6	166.6	11.27	73.9	21 - 148	130.3	2.97	30	
Butyl benzyl phthalate	126.7	6.6	166.6	0	76.1	50 - 136	122.8	3.09	30	
Caprolactam	99.57	6.6	166.6	0	59.8	50 - 135	97.42	2.19	30	
Carbazole	198.3	6.6	166.6	0	119	50 - 143	190.9	3.78	30	
Chrysene	111.6	3.3	166.6	1.461	66.1	50 - 130	109.7	1.7	30	
Dibenz(a,h)anthracene	112.4	3.3	166.6	0	67.5	50 - 130	109.5	2.64	30	
Dibenzofuran	90.24	3.3	166.6	0	54.2	50 - 125	83.48	7.79	30	
Diethyl phthalate	102.3	6.6	166.6	0	61.4	50 - 125	98.82	3.43	30	
Dimethyl phthalate	91.13	6.6	166.6	0	54.7	50 - 125	86.45	5.28	30	
Di-n-butyl phthalate	113.4	6.6	166.6	0	68.1	50 - 140	107.2	5.65	30	
Di-n-octyl phthalate	126	6.6	166.6	0	75.7	50 - 140	122.1	3.15	30	
Fluoranthene	106.7	3.3	166.6	1.858	62.9	50 - 131	104.3	2.27	30	
Fluorene	94.67	3.3	166.6	0	56.8	50 - 125	90.69	4.29	30	
Hexachlorobenzene	94	6.6	166.6	0	56.4	50 - 124	91.16	3.07	30	
Hexachlorobutadiene	78.1	6.6	166.6	0	46.9	50 - 125	72.65	7.23	30	S
Hexachlorocyclopentadiene	72.28	6.6	166.6	0	43.4	45 - 135	66.46	8.39	30	S
Hexachloroethane	84.58	6.6	166.6	0	50.8	45 - 125	82.2	2.86	30	
Indeno(1,2,3-cd)pyrene	114.1	3.3	166.6	0	68.5	45 - 139	120.8	5.7	30	
Isophorone	83.83	6.6	166.6	0	50.3	45 - 130	78.36	6.74	30	
Naphthalene	80.59	3.3	166.6	0	48.4	50 - 125	76.03	5.83	30	S
Nitrobenzene	83.46	6.6	166.6	0	50.1	50 - 125	80.58	3.52	30	
N-Nitrosodi-n-propylamine	89.29	6.6	166.6	0	53.6	45 - 120	81.02	9.72	30	
N-Nitrosodiphenylamine	105.7	6.6	166.6	0	63.5	50 - 130	103.3	2.37	30	
Pentachlorophenol	103	6.6	166.6	0	61.8	23 - 136	97.82	5.12	30	
Phenanthrene	103.1	3.3	166.6	0	61.9	50 - 125	101	2.11	30	
Phenol	95.15	6.6	166.6	0	57.1	45 - 130	83.84	12.6	30	
Pyrene	114.7	3.3	166.6	2.233	67.5	45 - 130	115.7	0.855	30	
Surr: 2,4,6-Tribromophenol	*122.5*	*0*	*166.6*	*0*	*73.6*	*36 - 126*	*103.7*	*16.7*	*30*	
Surr: 2-Fluorobiphenyl	*90.66*	*0*	*166.6*	*0*	*54.4*	*43 - 125*	*77.49*	*15.7*	*30*	
Surr: 2-Fluorophenol	*92.66*	*0*	*166.6*	*0*	*55.6*	*37 - 125*	*82.79*	*11.3*	*30*	

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117478 **Instrument: SV-6** **Method: SW8270**

MSD Sample ID: **HS17061402-08MSD** Units: **ug/Kg** Analysis Date: **28-Jun-2017 21:06**
Client ID: Run ID: **SV-6_297308** SeqNo: **4140389** PrepDate: **26-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr: 4-Terphenyl-d14	*122.7*	*0*	*166.6*	*0*	*73.7*	*32 - 125*	*112*	*9.13*	*30*	
Surr: Nitrobenzene-d5	*93.54*	*0*	*166.6*	*0*	*56.2*	*37 - 125*	*81.34*	*14*	*30*	
Surr: Phenol-d6	*101.5*	*0*	*166.6*	*0*	*61.0*	*40 - 125*	*85.5*	*17.1*	*30*	

The following samples were analyzed in this batch: HS17061403-03 HS17061403-04 HS17061403-06

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117569 **Instrument: SV-6** **Method: SW8270**

MBLK Sample ID: **MBLK-117569** Units: **ug/Kg** Analysis Date: **29-Jun-2017 11:16**
Client ID: Run ID: **SV-6_297339** SeqNo: **4140819** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1´-Biphenyl	< 1.7	6.6								
2,4,5-Trichlorophenol	< 2.5	6.6								
2,4,6-Trichlorophenol	< 1.7	6.6								
2,4-Dichlorophenol	< 1.3	6.6								
2,4-Dimethylphenol	< 3.3	6.6								
2,4-Dinitrophenol	< 4.5	13								
2,4-Dinitrotoluene	< 0.90	6.6								
2,6-Dinitrotoluene	< 3.3	6.6								
2-Chloronaphthalene	< 1.3	6.6								
2-Chlorophenol	< 1.3	6.6								
2-Methylnaphthalene	< 0.50	3.3								
2-Methylphenol	< 1.1	6.6								
2-Nitroaniline	< 1.9	6.6								
2-Nitrophenol	< 2.5	6.6								
3&4-Methylphenol	< 1.0	6.6								
3,3´-Dichlorobenzidine	< 2.5	6.6								
3-Nitroaniline	< 1.9	6.6								
4,6-Dinitro-2-methylphenol	< 2.1	6.6								
4-Bromophenyl phenyl ether	< 1.6	6.6								
4-Chloro-3-methylphenol	< 0.70	6.6								
4-Chloroaniline	< 1.1	6.6								
4-Chlorophenyl phenyl ether	< 1.5	6.6								
4-Nitroaniline	< 2.2	6.6								
4-Nitrophenol	< 1.9	13								
Acenaphthene	< 0.50	3.3								
Acenaphthylene	< 1.0	3.3								
Acetophenone	< 0.80	6.6								
Anthracene	< 0.50	3.3								
Atrazine	< 2.0	6.6								
Benz(a)anthracene	< 1.6	3.3								
Benzaldehyde	< 1.2	6.6								
Benzo(a)pyrene	< 1.0	3.3								
Benzo(b)fluoranthene	< 1.2	3.3								
Benzo(g,h,i)perylene	< 0.70	3.3								

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117569 **Instrument: SV-6** **Method: SW8270**

MBLK Sample ID: **MBLK-117569** Units: **ug/Kg** Analysis Date: **29-Jun-2017 11:16**
Client ID: Run ID: **SV-6_297339** SeqNo: **4140819** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(k)fluoranthene	< 0.90	3.3								
Bis(2-chloroethoxy)methane	< 0.90	6.6								
Bis(2-chloroethyl)ether	< 1.1	6.6								
Bis(2-chloroisopropyl)ether	< 1.4	6.6								
Bis(2-ethylhexyl)phthalate	< 1.7	6.6								
Butyl benzyl phthalate	< 1.3	6.6								
Caprolactam	< 1.2	6.6								
Carbazole	< 1.2	6.6								
Chrysene	< 0.80	3.3								
Dibenz(a,h)anthracene	< 1.6	3.3								
Dibenzofuran	< 0.70	3.3								
Diethyl phthalate	< 1.0	6.6								
Dimethyl phthalate	< 0.80	6.6								
Di-n-butyl phthalate	< 1.2	6.6								
Di-n-octyl phthalate	< 0.90	6.6								
Fluoranthene	< 1.1	3.3								
Fluorene	< 1.1	3.3								
Hexachlorobenzene	< 0.90	6.6								
Hexachlorobutadiene	< 1.2	6.6								
Hexachlorocyclopentadiene	< 0.80	6.6								
Hexachloroethane	< 1.5	6.6								
Indeno(1,2,3-cd)pyrene	< 0.80	3.3								
Isophorone	< 0.80	6.6								
Naphthalene	< 0.60	3.3								
Nitrobenzene	< 0.90	6.6								
N-Nitrosodi-n-propylamine	< 1.1	6.6								
N-Nitrosodiphenylamine	< 0.70	6.6								
Pentachlorophenol	< 3.3	6.6								
Phenanthrene	< 1.5	3.3								
Phenol	< 1.1	6.6								
Pyrene	< 0.60	3.3								
Surr: 2,4,6-Tribromophenol	*138.9*	*0*	*167*	*0*	*83.2*	*36 - 126*				
Surr: 2-Fluorobiphenyl	*129*	*0*	*167*	*0*	*77.3*	*43 - 125*				
Surr: 2-Fluorophenol	*129.7*	*0*	*167*	*0*	*77.6*	*37 - 125*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117569 **Instrument: SV-6** **Method: SW8270**

MBLK Sample ID: **MBLK-117569** Units: **ug/Kg** Analysis Date: **29-Jun-2017 11:16**
Client ID: Run ID: **SV-6_297339** SeqNo: **4140819** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr: 4-Terphenyl-d14	*141.4*	*0*	*167*	*0*	*84.7*	*32 - 125*				
Surr: Nitrobenzene-d5	*137*	*0*	*167*	*0*	*82.0*	*37 - 125*				
Surr: Phenol-d6	*141.6*	*0*	*167*	*0*	*84.8*	*40 - 125*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117569 **Instrument: SV-6** **Method: SW8270**

LCS Sample ID: **LCS-117569** Units: **ug/Kg** Analysis Date: **29-Jun-2017 11:35**
Client ID: Run ID: **SV-6_297339** SeqNo: **4140820** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1´-Biphenyl	118.7	6.6	167	0	71.1	50 - 120				
2,4,5-Trichlorophenol	126.1	6.6	167	0	75.5	45 - 127				
2,4,6-Trichlorophenol	129.6	6.6	167	0	77.6	45 - 130				
2,4-Dichlorophenol	114	6.6	167	0	68.3	45 - 125				
2,4-Dimethylphenol	107.3	6.6	167	0	64.2	45 - 120				
2,4-Dinitrophenol	130.5	13	167	0	78.1	10 - 126				
2,4-Dinitrotoluene	103.1	6.6	167	0	61.7	50 - 130				
2,6-Dinitrotoluene	142.8	6.6	167	0	85.5	50 - 125				
2-Chloronaphthalene	122.3	6.6	167	0	73.2	50 - 145				
2-Chlorophenol	119.6	6.6	167	0	71.6	45 - 120				
2-Methylnaphthalene	112.4	3.3	167	0	67.3	50 - 120				
2-Methylphenol	124.5	6.6	167	0	74.6	45 - 120				
2-Nitroaniline	179.9	6.6	167	0	108	45 - 138				
2-Nitrophenol	107.7	6.6	167	0	64.5	45 - 125				
3&4-Methylphenol	125.5	6.6	167	0	75.1	45 - 120				
3,3´-Dichlorobenzidine	194.4	6.6	167	0	116	15 - 120				
3-Nitroaniline	163.9	6.6	167	0	98.2	40 - 120				
4,6-Dinitro-2-methylphenol	135	6.6	167	0	80.8	15 - 135				
4-Bromophenyl phenyl ether	116.7	6.6	167	0	69.9	50 - 125				
4-Chloro-3-methylphenol	137.5	6.6	167	0	82.3	45 - 130				
4-Chloroaniline	135.5	6.6	167	0	81.1	20 - 120				
4-Chlorophenyl phenyl ether	124.1	6.6	167	0	74.3	50 - 120				
4-Nitroaniline	147.6	6.6	167	0	88.4	50 - 127				
4-Nitrophenol	150.6	13	167	0	90.2	40 - 147				
Acenaphthene	110.1	3.3	167	0	65.9	50 - 120				
Acenaphthylene	118.2	3.3	167	0	70.8	50 - 120				
Acetophenone	104.9	6.6	167	0	62.8	50 - 120				
Anthracene	126.7	3.3	167	0	75.8	50 - 123				
Atrazine	146.3	6.6	167	0	87.6	29 - 148				
Benz(a)anthracene	132.3	3.3	167	0	79.2	50 - 131				
Benzaldehyde	40.51	6.6	167	0	24.3	22 - 129				
Benzo(a)pyrene	128.9	3.3	167	0	77.2	50 - 130				
Benzo(b)fluoranthene	148.6	3.3	167	0	89.0	50 - 137				
Benzo(g,h,i)perylene	123.5	3.3	167	0	74.0	50 - 130				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117569 **Instrument: SV-6** **Method: SW8270**

LCS Sample ID: **LCS-117569** Units: **ug/Kg** Analysis Date: **29-Jun-2017 11:35**
Client ID: Run ID: **SV-6_297339** SeqNo: **4140820** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(k)fluoranthene	121.6	3.3	167	0	72.8	50 - 143				
Bis(2-chloroethoxy)methane	121.4	6.6	167	0	72.7	50 - 120				
Bis(2-chloroethyl)ether	121.3	6.6	167	0	72.6	45 - 127				
Bis(2-chloroisopropyl)ether	130	6.6	167	0	77.8	50 - 120				
Bis(2-ethylhexyl)phthalate	145.7	6.6	167	0	87.2	21 - 148				
Butyl benzyl phthalate	151.7	6.6	167	0	90.8	50 - 136				
Caprolactam	149.4	6.6	167	0	89.5	50 - 135				
Carbazole	183.9	6.6	167	0	110	50 - 143				
Chrysene	127.2	3.3	167	0	76.2	50 - 130				
Dibenz(a,h)anthracene	120.3	3.3	167	0	72.1	50 - 130				
Dibenzofuran	121.7	3.3	167	0	72.8	50 - 125				
Diethyl phthalate	132.6	6.6	167	0	79.4	50 - 125				
Dimethyl phthalate	126.6	6.6	167	0	75.8	50 - 125				
Di-n-butyl phthalate	130.4	6.6	167	0	78.1	50 - 140				
Di-n-octyl phthalate	145	6.6	167	0	86.8	50 - 140				
Fluoranthene	129.1	3.3	167	0	77.3	50 - 131				
Fluorene	125.7	3.3	167	0	75.3	50 - 125				
Hexachlorobenzene	120.6	6.6	167	0	72.2	50 - 124				
Hexachlorobutadiene	111.8	6.6	167	0	66.9	50 - 125				
Hexachlorocyclopentadiene	109.3	6.6	167	0	65.4	45 - 135				
Hexachloroethane	128.9	6.6	167	0	77.2	45 - 125				
Indeno(1,2,3-cd)pyrene	119.8	3.3	167	0	71.7	45 - 139				
Isophorone	118	6.6	167	0	70.6	45 - 130				
Naphthalene	107.6	3.3	167	0	64.4	50 - 125				
Nitrobenzene	116.7	6.6	167	0	69.9	50 - 125				
N-Nitrosodi-n-propylamine	127.5	6.6	167	0	76.3	45 - 120				
N-Nitrosodiphenylamine	134.1	6.6	167	0	80.3	50 - 130				
Pentachlorophenol	119.5	6.6	167	0	71.6	23 - 136				
Phenanthrene	124.7	3.3	167	0	74.6	50 - 125				
Phenol	129.2	6.6	167	0	77.4	45 - 130				
Pyrene	133.2	3.3	167	0	79.8	45 - 130				
Surr: 2,4,6-Tribromophenol	*138.1*	*0*	*167*	*0*	*82.7*	*36 - 126*				
Surr: 2-Fluorobiphenyl	*118.3*	*0*	*167*	*0*	*70.9*	*43 - 125*				
Surr: 2-Fluorophenol	*124.7*	*0*	*167*	*0*	*74.7*	*37 - 125*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117569 **Instrument: SV-6** **Method: SW8270**

LCS Sample ID: **LCS-117569** Units: **ug/Kg** Analysis Date: **29-Jun-2017 11:35**
Client ID: Run ID: **SV-6_297339** SeqNo: **4140820** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr: 4-Terphenyl-d14	*137.4*	*0*	*167*	*0*	*82.3*	*32 - 125*				
Surr: Nitrobenzene-d5	*117.4*	*0*	*167*	*0*	*70.3*	*37 - 125*				
Surr: Phenol-d6	*135.4*	*0*	*167*	*0*	*81.1*	*40 - 125*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117569 **Instrument: SV-6** **Method: SW8270**

MS Sample ID: **HS17061403-05MS** Units: **ug/Kg** Analysis Date: **29-Jun-2017 12:13**
Client ID: **SB-3** Run ID: **SV-6_297339** SeqNo: **4140822** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1´-Biphenyl	98.77	6.6	166.7	0	59.3	50 - 120				
2,4,5-Trichlorophenol	112.4	6.6	166.7	0	67.4	45 - 127				
2,4,6-Trichlorophenol	105.4	6.6	166.7	0	63.2	45 - 130				
2,4-Dichlorophenol	98.26	6.6	166.7	0	59.0	45 - 125				
2,4-Dimethylphenol	90.21	6.6	166.7	0	54.1	45 - 120				
2,4-Dinitrophenol	123.8	13	166.7	0	74.3	10 - 126				
2,4-Dinitrotoluene	88.6	6.6	166.7	0	53.2	50 - 130				
2,6-Dinitrotoluene	122.7	6.6	166.7	0	73.6	50 - 125				
2-Chloronaphthalene	112.4	6.6	166.7	0	67.4	50 - 145				
2-Chlorophenol	90.87	6.6	166.7	0	54.5	45 - 120				
2-Methylnaphthalene	98.48	3.3	166.7	0	59.1	50 - 120				
2-Methylphenol	95.04	6.6	166.7	0	57.0	45 - 120				
2-Nitroaniline	145.6	6.6	166.7	0	87.4	45 - 138				
2-Nitrophenol	98.18	6.6	166.7	0	58.9	45 - 125				
3&4-Methylphenol	101.5	6.6	166.7	0	60.9	45 - 120				
3,3´-Dichlorobenzidine	178.9	6.6	166.7	0	107	15 - 120				
3-Nitroaniline	150.9	6.6	166.7	0	90.5	40 - 120				
4,6-Dinitro-2-methylphenol	107.7	6.6	166.7	0	64.6	15 - 135				
4-Bromophenyl phenyl ether	102.4	6.6	166.7	0	61.4	50 - 125				
4-Chloro-3-methylphenol	121.1	6.6	166.7	0	72.7	45 - 130				
4-Chloroaniline	120.8	6.6	166.7	0	72.5	20 - 120				
4-Chlorophenyl phenyl ether	101.2	6.6	166.7	0	60.7	50 - 120				
4-Nitroaniline	142.6	6.6	166.7	0	85.6	50 - 127				
4-Nitrophenol	130.5	13	166.7	0	78.3	40 - 147				
Acenaphthene	93.21	3.3	166.7	0	55.9	50 - 120				
Acenaphthylene	99.23	3.3	166.7	0	59.5	50 - 120				
Acetophenone	92.94	6.6	166.7	0	55.8	50 - 120				
Anthracene	114	3.3	166.7	0	68.4	50 - 123				
Atrazine	143.4	6.6	166.7	0	86.0	29 - 148				
Benz(a)anthracene	129.5	3.3	166.7	0	77.7	50 - 131				
Benzaldehyde	30.19	6.6	166.7	0	18.1	22 - 129				S
Benzo(a)pyrene	122.4	3.3	166.7	0	73.4	50 - 130				
Benzo(b)fluoranthene	132.6	3.3	166.7	0	79.5	50 - 137				
Benzo(g,h,i)perylene	119.7	3.3	166.7	0	71.8	50 - 130				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117569 **Instrument: SV-6** **Method: SW8270**

MS Sample ID: **HS17061403-05MS** Units: **ug/Kg** Analysis Date: **29-Jun-2017 12:13**
Client ID: **SB-3** Run ID: **SV-6_297339** SeqNo: **4140822** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(k)fluoranthene	119	3.3	166.7	0	71.4	50 - 143				
Bis(2-chloroethoxy)methane	101.9	6.6	166.7	0	61.1	50 - 120				
Bis(2-chloroethyl)ether	86.84	6.6	166.7	0	52.1	45 - 127				
Bis(2-chloroisopropyl)ether	106.6	6.6	166.7	0	63.9	50 - 120				
Bis(2-ethylhexyl)phthalate	166.6	6.6	166.7	27.13	83.7	21 - 148				
Butyl benzyl phthalate	142	6.6	166.7	0.9186	84.7	50 - 136				
Caprolactam	137.2	6.6	166.7	0	82.3	50 - 135				
Carbazole	205.6	6.6	166.7	0	123	50 - 143				
Chrysene	123.2	3.3	166.7	0	73.9	50 - 130				
Dibenz(a,h)anthracene	120.5	3.3	166.7	0	72.3	50 - 130				
Dibenzofuran	101	3.3	166.7	0	60.6	50 - 125				
Diethyl phthalate	116.6	6.6	166.7	0	69.9	50 - 125				
Dimethyl phthalate	106.5	6.6	166.7	0	63.9	50 - 125				
Di-n-butyl phthalate	124.9	6.6	166.7	1.5	74.0	50 - 140				
Di-n-octyl phthalate	143.2	6.6	166.7	0	85.9	50 - 140				
Fluoranthene	118.1	3.3	166.7	0	70.8	50 - 131				
Fluorene	109.5	3.3	166.7	0	65.7	50 - 125				
Hexachlorobenzene	107.9	6.6	166.7	0	64.7	50 - 124				
Hexachlorobutadiene	97.91	6.6	166.7	0	58.7	50 - 125				
Hexachlorocyclopentadiene	83.51	6.6	166.7	0	50.1	45 - 135				
Hexachloroethane	101.2	6.6	166.7	0	60.7	45 - 125				
Indeno(1,2,3-cd)pyrene	119.7	3.3	166.7	0	71.8	45 - 139				
Isophorone	102	6.6	166.7	0	61.2	45 - 130				
Naphthalene	97.76	3.3	166.7	0	58.7	50 - 125				
Nitrobenzene	104.2	6.6	166.7	0	62.5	50 - 125				
N-Nitrosodi-n-propylamine	99.28	6.6	166.7	0	59.6	45 - 120				
N-Nitrosodiphenylamine	122.4	6.6	166.7	0	73.4	50 - 130				
Pentachlorophenol	110.3	6.6	166.7	0	66.2	23 - 136				
Phenanthrene	115.8	3.3	166.7	0	69.5	50 - 125				
Phenol	96.79	6.6	166.7	0	58.1	45 - 130				
Pyrene	129.4	3.3	166.7	0	77.6	45 - 130				
Surr: 2,4,6-Tribromophenol	*123.3*	*0*	*166.7*	*0*	*74.0*	*36 - 126*				
Surr: 2-Fluorobiphenyl	*96.76*	*0*	*166.7*	*0*	*58.1*	*43 - 125*				
Surr: 2-Fluorophenol	*82.11*	*0*	*166.7*	*0*	*49.3*	*37 - 125*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117569 **Instrument: SV-6** **Method: SW8270**

MS Sample ID: **HS17061403-05MS** Units: **ug/Kg** Analysis Date: **29-Jun-2017 12:13**
Client ID: **SB-3** Run ID: **SV-6_297339** SeqNo: **4140822** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr: 4-Terphenyl-d14	*130.8*	*0*	*166.7*	*0*	*78.5*	*32 - 125*				
Surr: Nitrobenzene-d5	*108*	*0*	*166.7*	*0*	*64.8*	*37 - 125*				
Surr: Phenol-d6	*107.1*	*0*	*166.7*	*0*	*64.3*	*40 - 125*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117569 **Instrument: SV-6** **Method: SW8270**

MSD Sample ID: **HS17061403-05MSD** Units: **ug/Kg** Analysis Date: **29-Jun-2017 12:33**
Client ID: **SB-3** Run ID: **SV-6_297339** SeqNo: **4140823** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1´-Biphenyl	108.3	6.6	166.6	0	65.0	50 - 120	98.77	9.24	30	
2,4,5-Trichlorophenol	117.9	6.6	166.6	0	70.8	45 - 127	112.4	4.81	30	
2,4,6-Trichlorophenol	118.2	6.6	166.6	0	71.0	45 - 130	105.4	11.5	30	
2,4-Dichlorophenol	111.6	6.6	166.6	0	67.0	45 - 125	98.26	12.7	30	
2,4-Dimethylphenol	104.5	6.6	166.6	0	62.7	45 - 120	90.21	14.7	30	
2,4-Dinitrophenol	128	13	166.6	0	76.9	10 - 126	123.8	3.33	30	
2,4-Dinitrotoluene	89.14	6.6	166.6	0	53.5	50 - 130	88.6	0.608	30	
2,6-Dinitrotoluene	123.5	6.6	166.6	0	74.1	50 - 125	122.7	0.608	30	
2-Chloronaphthalene	110.9	6.6	166.6	0	66.6	50 - 145	112.4	1.37	30	
2-Chlorophenol	115.2	6.6	166.6	0	69.2	45 - 120	90.87	23.6	30	
2-Methylnaphthalene	110.3	3.3	166.6	0	66.2	50 - 120	98.48	11.3	30	
2-Methylphenol	112.1	6.6	166.6	0	67.3	45 - 120	95.04	16.5	30	
2-Nitroaniline	160.2	6.6	166.6	0	96.2	45 - 138	145.6	9.52	30	
2-Nitrophenol	102.5	6.6	166.6	0	61.5	45 - 125	98.18	4.3	30	
3&4-Methylphenol	118.1	6.6	166.6	0	70.9	45 - 120	101.5	15.2	30	
3,3´-Dichlorobenzidine	165.1	6.6	166.6	0	99.1	15 - 120	178.9	8.03	30	
3-Nitroaniline	142.4	6.6	166.6	0	85.5	40 - 120	150.9	5.78	30	
4,6-Dinitro-2-methylphenol	129.2	6.6	166.6	0	77.6	15 - 135	107.7	18.2	30	
4-Bromophenyl phenyl ether	105.3	6.6	166.6	0	63.2	50 - 125	102.4	2.82	30	
4-Chloro-3-methylphenol	121.3	6.6	166.6	0	72.8	45 - 130	121.1	0.178	30	
4-Chloroaniline	136.4	6.6	166.6	0	81.9	20 - 120	120.8	12.2	30	
4-Chlorophenyl phenyl ether	108.8	6.6	166.6	0	65.3	50 - 120	101.2	7.23	30	
4-Nitroaniline	154	6.6	166.6	0	92.4	50 - 127	142.6	7.63	30	
4-Nitrophenol	152.8	13	166.6	0	91.7	40 - 147	130.5	15.7	30	
Acenaphthene	98.97	3.3	166.6	0	59.4	50 - 120	93.21	5.99	30	
Acenaphthylene	107.8	3.3	166.6	0	64.7	50 - 120	99.23	8.32	30	
Acetophenone	105.9	6.6	166.6	0	63.6	50 - 120	92.94	13	30	
Anthracene	115.1	3.3	166.6	0	69.1	50 - 123	114	0.912	30	
Atrazine	136.8	6.6	166.6	0	82.1	29 - 148	143.4	4.73	30	
Benz(a)anthracene	125.2	3.3	166.6	0	75.2	50 - 131	129.5	3.36	30	
Benzaldehyde	26.92	6.6	166.6	0	16.2	22 - 129	30.19	11.4	30	S
Benzo(a)pyrene	121.1	3.3	166.6	0	72.7	50 - 130	122.4	1.1	30	
Benzo(b)fluoranthene	145.5	3.3	166.6	0	87.4	50 - 137	132.6	9.29	30	
Benzo(g,h,i)perylene	123.9	3.3	166.6	0	74.4	50 - 130	119.7	3.41	30	

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117569 **Instrument: SV-6** **Method: SW8270**

MSD Sample ID: **HS17061403-05MSD** Units: **ug/Kg** Analysis Date: **29-Jun-2017 12:33**
Client ID: **SB-3** Run ID: **SV-6_297339** SeqNo: **4140823** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzo(k)fluoranthene	126.2	3.3	166.6	0	75.8	50 - 143	119	5.83	30	
Bis(2-chloroethoxy)methane	118.4	6.6	166.6	0	71.1	50 - 120	101.9	15	30	
Bis(2-chloroethyl)ether	120.7	6.6	166.6	0	72.5	45 - 127	86.84	32.7	30	R
Bis(2-chloroisopropyl)ether	123.6	6.6	166.6	0	74.2	50 - 120	106.6	14.8	30	
Bis(2-ethylhexyl)phthalate	159.4	6.6	166.6	27.13	79.4	21 - 148	166.6	4.44	30	
Butyl benzyl phthalate	137.6	6.6	166.6	0.9186	82.1	50 - 136	142	3.13	30	
Caprolactam	134.2	6.6	166.6	0	80.6	50 - 135	137.2	2.22	30	
Carbazole	178.7	6.6	166.6	0	107	50 - 143	205.6	14	30	
Chrysene	116.4	3.3	166.6	0	69.9	50 - 130	123.2	5.68	30	
Dibenz(a,h)anthracene	120.8	3.3	166.6	0	72.5	50 - 130	120.5	0.27	30	
Dibenzofuran	110.1	3.3	166.6	0	66.1	50 - 125	101	8.7	30	
Diethyl phthalate	116.7	6.6	166.6	0	70.1	50 - 125	116.6	0.135	30	
Dimethyl phthalate	110.6	6.6	166.6	0	66.4	50 - 125	106.5	3.8	30	
Di-n-butyl phthalate	124.9	6.6	166.6	1.5	74.1	50 - 140	124.9	0.0034	30	
Di-n-octyl phthalate	141.9	6.6	166.6	0	85.2	50 - 140	143.2	0.904	30	
Fluoranthene	117.1	3.3	166.6	0	70.3	50 - 131	118.1	0.847	30	
Fluorene	112.1	3.3	166.6	0	67.3	50 - 125	109.5	2.37	30	
Hexachlorobenzene	112.4	6.6	166.6	0	67.5	50 - 124	107.9	4.06	30	
Hexachlorobutadiene	109.4	6.6	166.6	0	65.7	50 - 125	97.91	11.1	30	
Hexachlorocyclopentadiene	110.6	6.6	166.6	0	66.4	45 - 135	83.51	27.9	30	
Hexachloroethane	117.2	6.6	166.6	0	70.4	45 - 125	101.2	14.6	30	
Indeno(1,2,3-cd)pyrene	133.2	3.3	166.6	0	80.0	45 - 139	119.7	10.7	30	
Isophorone	113	6.6	166.6	0	67.9	45 - 130	102	10.3	30	
Naphthalene	106.2	3.3	166.6	0	63.7	50 - 125	97.76	8.25	30	
Nitrobenzene	118.1	6.6	166.6	0	70.9	50 - 125	104.2	12.5	30	
N-Nitrosodi-n-propylamine	120	6.6	166.6	0	72.0	45 - 120	99.28	18.9	30	
N-Nitrosodiphenylamine	124.7	6.6	166.6	0	74.8	50 - 130	122.4	1.84	30	
Pentachlorophenol	115.2	6.6	166.6	0	69.1	23 - 136	110.3	4.3	30	
Phenanthrene	117.5	3.3	166.6	0	70.5	50 - 125	115.8	1.48	30	
Phenol	120.4	6.6	166.6	0	72.3	45 - 130	96.79	21.8	30	
Pyrene	121.1	3.3	166.6	0	72.7	45 - 130	129.4	6.6	30	
Surr: 2,4,6-Tribromophenol	*125.2*	*0*	*166.6*	*0*	*75.2*	*36 - 126*	*123.3*	*1.5*	*30*	
Surr: 2-Fluorobiphenyl	*111.4*	*0*	*166.6*	*0*	*66.9*	*43 - 125*	*96.76*	*14.1*	*30*	
Surr: 2-Fluorophenol	*115.9*	*0*	*166.6*	*0*	*69.6*	*37 - 125*	*82.11*	*34.1*	*30*	R

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: 117569 **Instrument: SV-6** **Method: SW8270**

MSD Sample ID: **HS17061403-05MSD** Units: **ug/Kg** Analysis Date: **29-Jun-2017 12:33**
Client ID: **SB-3** Run ID: **SV-6_297339** SeqNo: **4140823** PrepDate: **28-Jun-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr: 4-Terphenyl-d14	*123.7*	*0*	*166.6*	*0*	*74.3*	*32 - 125*	*130.8*	*5.61*	*30*	
Surr: Nitrobenzene-d5	*116.6*	*0*	*166.6*	*0*	*70.0*	*37 - 125*	*108*	*7.64*	*30*	
Surr: Phenol-d6	*124.9*	*0*	*166.6*	*0*	*75.0*	*40 - 125*	*107.1*	*15.3*	*30*	

The following samples were analyzed in this batch: HS17061403-05

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297160 **Instrument: VOA5** **Method: SW8260**

MBLK Sample ID: **VBLKS1-062617** Units: **ug/Kg** Analysis Date: **27-Jun-2017 12:02**
Client ID: Run ID: **VOA5_297160** SeqNo: **4137283** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	< 0.50	5.0								
1,1,2,2-Tetrachloroethane	< 0.80	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	< 0.70	5.0								
1,1,2-Trichloroethane	< 0.50	5.0								
1,1-Dichloroethane	< 0.50	5.0								
1,1-Dichloroethene	< 0.50	5.0								
1,2,4-Trichlorobenzene	< 1.0	5.0								
1,2-Dibromo-3-chloropropane	< 1.0	5.0								
1,2-Dibromoethane	< 0.50	5.0								
1,2-Dichlorobenzene	< 1.0	5.0								
1,2-Dichloroethane	< 0.60	5.0								
1,2-Dichloropropane	< 0.80	5.0								
1,3-Dichlorobenzene	< 1.0	5.0								
1,4-Dichlorobenzene	< 1.0	5.0								
2-Butanone	< 1.3	10								
2-Hexanone	< 1.4	10								
4-Methyl-2-pentanone	< 2.0	10								
Acetone	< 2.0	20								
Benzene	< 0.50	5.0								
Bromodichloromethane	< 0.50	5.0								
Bromoform	< 0.60	5.0								
Bromomethane	< 1.0	10								
Carbon disulfide	< 0.60	10								
Carbon tetrachloride	< 0.60	5.0								
Chlorobenzene	< 0.60	5.0								
Chloroethane	< 0.80	10								
Chloroform	< 0.50	5.0								
Chloromethane	< 0.50	10								
cis-1,2-Dichloroethene	< 0.80	5.0								
cis-1,3-Dichloropropene	< 0.50	5.0								
Cyclohexane	< 1.0	5.0								
Dibromochloromethane	< 0.50	5.0								
Dichlorodifluoromethane	< 0.70	5.0								
Ethylbenzene	< 0.70	5.0								

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297160 **Instrument: VOA5** **Method: SW8260**

MBLK Sample ID: **VBLKS1-062617** Units: **ug/Kg** Analysis Date: **27-Jun-2017 12:02**
Client ID: Run ID: **VOA5_297160** SeqNo: **4137283** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	< 0.90	5.0								
m,p-Xylene	< 1.6	10								
Methyl acetate	< 0.70	5.0								
Methyl tert-butyl ether	< 0.50	5.0								
Methylcyclohexane	< 1.0	5.0								
Methylene chloride	< 1.0	10								
o-Xylene	< 1.0	5.0								
Styrene	< 0.70	5.0								
Tetrachloroethene	< 0.70	5.0								
Toluene	< 0.60	5.0								
trans-1,2-Dichloroethene	< 0.50	5.0								
trans-1,3-Dichloropropene	< 0.60	5.0								
Trichloroethene	< 0.60	5.0								
Trichlorofluoromethane	< 0.50	5.0								
Vinyl chloride	< 0.80	2.0								
Xylenes, Total	< 1.0	5.0								
Surr: 1,2-Dichloroethane-d4	*47.95*	*0*	*50*	*0*	*95.9*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*48.49*	*0*	*50*	*0*	*97.0*	*83 - 113*				
Surr: Dibromofluoromethane	*47.9*	*0*	*50*	*0*	*95.8*	*80 - 119*				
Surr: Toluene-d8	*50.05*	*0*	*50*	*0*	*100*	*81 - 118*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297160 **Instrument: VOA5** **Method: SW8260**

LCS Sample ID: **VLCSS1-062717** Units: **ug/Kg** Analysis Date: **27-Jun-2017 11:15**
Client ID: Run ID: **VOA5_297160** SeqNo: **4137282** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.89	5.0	50	0	99.8	72 - 130				
1,1,2,2-Tetrachloroethane	50.83	5.0	50	0	102	71 - 124				
1,1,2-Trichlor-1,2,2-trifluoroethane	49.39	5.0	50	0	98.8	70 - 130				
1,1,2-Trichloroethane	52.42	5.0	50	0	105	78 - 117				
1,1-Dichloroethane	54.13	5.0	50	0	108	76 - 128				
1,1-Dichloroethene	54.16	5.0	50	0	108	72 - 130				
1,2,4-Trichlorobenzene	51.55	5.0	50	0	103	70 - 128				
1,2-Dibromo-3-chloropropane	49.69	5.0	50	0	99.4	70 - 128				
1,2-Dibromoethane	52.12	5.0	50	0	104	78 - 120				
1,2-Dichlorobenzene	53.07	5.0	50	0	106	79 - 121				
1,2-Dichloroethane	50.84	5.0	50	0	102	77 - 120				
1,2-Dichloropropane	50.94	5.0	50	0	102	77 - 121				
1,3-Dichlorobenzene	53.16	5.0	50	0	106	78 - 121				
1,4-Dichlorobenzene	52.49	5.0	50	0	105	78 - 120				
2-Butanone	97.57	10	100	0	97.6	70 - 128				
2-Hexanone	97.02	10	100	0	97.0	72 - 127				
4-Methyl-2-pentanone	101.4	10	100	0	101	70 - 128				
Acetone	97.34	20	100	0	97.3	70 - 130				
Benzene	53.42	5.0	50	0	107	75 - 124				
Bromodichloromethane	47.62	5.0	50	0	95.2	78 - 122				
Bromoform	44.78	5.0	50	0	89.6	74 - 120				
Bromomethane	52.33	10	50	0	105	70 - 130				
Carbon disulfide	99.82	10	100	0	99.8	70 - 122				
Carbon tetrachloride	47.02	5.0	50	0	94.0	72 - 128				
Chlorobenzene	52.17	5.0	50	0	104	81 - 119				
Chloroethane	53.72	10	50	0	107	70 - 130				
Chloroform	52.91	5.0	50	0	106	73 - 127				
Chloromethane	53.96	10	50	0	108	70 - 130				
cis-1,2-Dichloroethene	52.92	5.0	50	0	106	77 - 125				
cis-1,3-Dichloropropene	48.03	5.0	50	0	96.1	78 - 122				
Cyclohexane	49.36	5.0	50	0	98.7	74 - 126				
Dibromochloromethane	47.39	5.0	50	0	94.8	78 - 120				
Dichlorodifluoromethane	50.85	5.0	50	0	102	70 - 130				
Ethylbenzene	53.93	5.0	50	0	108	70 - 123				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297160 **Instrument: VOA5** **Method: SW8260**

LCS Sample ID: **VLCSS1-062717** Units: **ug/Kg** Analysis Date: **27-Jun-2017 11:15**
Client ID: Run ID: **VOA5_297160** SeqNo: **4137282** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	49.94	5.0	50	0	99.9	78 - 127				
m,p-Xylene	107.2	10	100	0	107	77 - 125				
Methyl acetate	48.98	5.0	50	0	98.0	69 - 123				
Methyl tert-butyl ether	51.45	5.0	50	0	103	70 - 128				
Methylcyclohexane	48.33	5.0	50	0	96.7	77 - 127				
Methylene chloride	50.6	10	50	0	101	71 - 125				
o-Xylene	52.82	5.0	50	0	106	78 - 122				
Styrene	53.71	5.0	50	0	107	80 - 123				
Tetrachloroethene	45.86	5.0	50	0	91.7	70 - 130				
Toluene	51.18	5.0	50	0	102	76 - 122				
trans-1,2-Dichloroethene	53.31	5.0	50	0	107	75 - 128				
trans-1,3-Dichloropropene	47.55	5.0	50	0	95.1	75 - 123				
Trichloroethene	53.66	5.0	50	0	107	78 - 125				
Trichlorofluoromethane	50.35	5.0	50	0	101	70 - 130				
Vinyl chloride	56.22	2.0	50	0	112	70 - 130				
Xylenes, Total	160	5.0	150	0	107	77 - 128				
Surr: 1,2-Dichloroethane-d4	*50.33*	*0*	*50*	*0*	*101*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*49.91*	*0*	*50*	*0*	*99.8*	*83 - 113*				
Surr: Dibromofluoromethane	*50.58*	*0*	*50*	*0*	*101*	*80 - 119*				
Surr: Toluene-d8	*49.82*	*0*	*50*	*0*	*99.6*	*81 - 118*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297160 **Instrument: VOA5** **Method: SW8260**

MS Sample ID: **HS17061403-05MS** Units: **ug/Kg** Analysis Date: **27-Jun-2017 16:47**
Client ID: **SB-3** Run ID: **VOA5_297160** SeqNo: **4137892** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	35.56	4.6	46	0	77.3	70 - 130				
1,1,2,2-Tetrachloroethane	1.728	4.6	46	0	3.76	70 - 130				JS
1,1,2-Trichlor-1,2,2-trifluoroethane	37.45	4.6	46	0	81.4	70 - 130				
1,1,2-Trichloroethane	40.15	4.6	46	0	87.3	70 - 130				
1,1-Dichloroethane	38.2	4.6	46	0	83.0	70 - 130				
1,1-Dichloroethene	40.01	4.6	46	0	87.0	70 - 130				
1,2,4-Trichlorobenzene	32.55	4.6	46	0	70.8	70 - 130				
1,2-Dibromo-3-chloropropane	33.7	4.6	46	0	73.3	70 - 130				
1,2-Dibromoethane	42.1	4.6	46	0	91.5	70 - 120				
1,2-Dichlorobenzene	37.68	4.6	46	0	81.9	70 - 130				
1,2-Dichloroethane	39.9	4.6	46	0	86.7	70 - 130				
1,2-Dichloropropane	38.65	4.6	46	0	84.0	70 - 130				
1,3-Dichlorobenzene	36.9	4.6	46	0	80.2	70 - 130				
1,4-Dichlorobenzene	36.64	4.6	46	0	79.7	70 - 130				
2-Butanone	97.62	9.2	92	0	106	70 - 130				
2-Hexanone	96.37	9.2	92	0	105	70 - 130				
4-Methyl-2-pentanone	97.4	9.2	92	0	106	70 - 1298				
Acetone	108.6	18	92	0	118	70 - 130				
Benzene	38.61	4.6	46	0	83.9	70 - 130				
Bromodichloromethane	34.22	4.6	46	0	74.4	70 - 130				
Bromoform	34.71	4.6	46	0	75.5	70 - 130				
Bromomethane	33.22	9.2	46	0	72.2	70 - 130				
Carbon disulfide	67.92	9.2	92	0	73.8	70 - 130				
Carbon tetrachloride	34.24	4.6	46	0	74.4	70 - 130				
Chlorobenzene	38.45	4.6	46	0	83.6	70 - 130				
Chloroethane	37.61	9.2	46	0	81.8	70 - 130				
Chloroform	38.62	4.6	46	0	84.0	70 - 130				
Chloromethane	36.5	9.2	46	0	79.3	70 - 130				
cis-1,2-Dichloroethene	38.42	4.6	46	0	83.5	70 - 130				
cis-1,3-Dichloropropene	33.62	4.6	46	0	73.1	70 - 130				
Cyclohexane	37.93	4.6	46	0	82.5	74 - 126				
Dibromochloromethane	34.88	4.6	46	0	75.8	70 - 130				
Dichlorodifluoromethane	37.48	4.6	46	0	81.5	70 - 130				
Ethylbenzene	38.46	4.6	46	0	83.6	70 - 130				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297160 **Instrument: VOA5** **Method: SW8260**

MS Sample ID: **HS17061403-05MS** Units: **ug/Kg** Analysis Date: **27-Jun-2017 16:47**
Client ID: **SB-3** Run ID: **VOA5_297160** SeqNo: **4137892** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	36.75	4.6	46	0	79.9	70 - 130				
m,p-Xylene	76.95	9.2	92	0	83.6	70 - 130				
Methyl acetate	5.209	4.6	46	0	11.3	69 - 123				S
Methyl tert-butyl ether	42.5	4.6	46	0	92.4	70 - 130				
Methylcyclohexane	37.06	4.6	46	0	80.6	77 - 127				
Methylene chloride	38.07	9.2	46	0	82.8	70 - 130				
o-Xylene	38.49	4.6	46	0	83.7	70 - 130				
Styrene	37.99	4.6	46	0	82.6	70 - 130				
Tetrachloroethene	58.65	4.6	46	0	127	70 - 130				
Toluene	37.37	4.6	46	0	81.2	70 - 130				
trans-1,2-Dichloroethene	38.23	4.6	46	0	83.1	70 - 130				
trans-1,3-Dichloropropene	35.51	4.6	46	0	77.2	70 - 130				
Trichloroethene	72.04	4.6	46	0	157	70 - 130				S
Trichlorofluoromethane	36.93	4.6	46	0	80.3	70 - 130				
Vinyl chloride	40.32	1.8	46	0	87.6	70 - 130				
Xylenes, Total	115.4	4.6	138	0	83.6	70 - 130				
Surr: 1,2-Dichloroethane-d4	*48.28*	*0*	*46*	*0*	*105*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*46.16*	*0*	*46*	*0*	*100*	*72 - 120*				
Surr: Dibromofluoromethane	*27.13*	*0*	*46*	*0*	*59.0*	*70 - 130*				S
Surr: Toluene-d8	*44.57*	*0*	*46*	*0*	*96.9*	*82 - 121*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297160 **Instrument: VOA5** **Method: SW8260**

MS Sample ID: **HS17061402-08MS** Units: **ug/Kg** Analysis Date: **27-Jun-2017 17:34**
Client ID: Run ID: **VOA5_297160** SeqNo: **4137894** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	33.78	4.3	43	0	78.5	70 - 130				
1,1,2,2-Tetrachloroethane	1.085	4.3	43	0	2.52	70 - 130				JS
1,1,2-Trichlor-1,2,2-trifluoroethane	34.07	4.3	43	0	79.2	70 - 130				
1,1,2-Trichloroethane	35.89	4.3	43	0	83.5	70 - 130				
1,1-Dichloroethane	35.82	4.3	43	0	83.3	70 - 130				
1,1-Dichloroethene	41.41	4.3	43	0	96.3	70 - 130				
1,2,4-Trichlorobenzene	30.12	4.3	43	0	70.0	70 - 130				
1,2-Dibromo-3-chloropropane	29.4	4.3	43	0	68.4	70 - 130				S
1,2-Dibromoethane	41.82	4.3	43	0	97.2	70 - 120				
1,2-Dichlorobenzene	35.77	4.3	43	0	83.2	70 - 130				
1,2-Dichloroethane	38.47	4.3	43	0	89.5	70 - 130				
1,2-Dichloropropane	36.96	4.3	43	0	85.9	70 - 130				
1,3-Dichlorobenzene	34.6	4.3	43	0	80.5	70 - 130				
1,4-Dichlorobenzene	33.81	4.3	43	0	78.6	70 - 130				
2-Butanone	97.08	8.6	86	0	113	70 - 130				
2-Hexanone	96.58	8.6	86	0	112	70 - 130				
4-Methyl-2-pentanone	95.33	8.6	86	0	111	70 - 1298				
Acetone	126.9	17	86	16.99	128	70 - 130				
Benzene	35.47	4.3	43	0	82.5	70 - 130				
Bromodichloromethane	31.61	4.3	43	0	73.5	70 - 130				
Bromoform	33.9	4.3	43	0	78.8	70 - 130				
Bromomethane	29.38	8.6	43	0	68.3	70 - 130				S
Carbon disulfide	60.74	8.6	86	0	70.6	70 - 130				
Carbon tetrachloride	31.36	4.3	43	0	72.9	70 - 130				
Chlorobenzene	35.41	4.3	43	0	82.3	70 - 130				
Chloroethane	35.35	8.6	43	0	82.2	70 - 130				
Chloroform	36.15	4.3	43	0	84.1	70 - 130				
Chloromethane	34.29	8.6	43	0	79.7	70 - 130				
cis-1,2-Dichloroethene	34.95	4.3	43	0	81.3	70 - 130				
cis-1,3-Dichloropropene	32.31	4.3	43	0	75.1	70 - 130				
Cyclohexane	34.33	4.3	43	0	79.8	74 - 126				
Dibromochloromethane	33.42	4.3	43	0	77.7	70 - 130				
Dichlorodifluoromethane	33.64	4.3	43	0	78.2	70 - 130				
Ethylbenzene	35.77	4.3	43	0	83.2	70 - 130				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297160 **Instrument: VOA5** **Method: SW8260**

MS Sample ID: **HS17061402-08MS** Units: **ug/Kg** Analysis Date: **27-Jun-2017 17:34**
Client ID: Run ID: **VOA5_297160** SeqNo: **4137894** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	33.38	4.3	43	0	77.6	70 - 130				
m,p-Xylene	71.58	8.6	86	0	83.2	70 - 130				
Methyl acetate	< 0.60	4.3	43	0	0	69 - 123				S
Methyl tert-butyl ether	40.65	4.3	43	0	94.5	70 - 130				
Methylcyclohexane	33.4	4.3	43	0	77.7	77 - 127				
Methylene chloride	37.54	8.6	43	0	87.3	70 - 130				
o-Xylene	35.98	4.3	43	0	83.7	70 - 130				
Styrene	36.06	4.3	43	0	83.9	70 - 130				
Tetrachloroethene	54	4.3	43	0	126	70 - 130				
Toluene	35.03	4.3	43	0	81.5	70 - 130				
trans-1,2-Dichloroethene	35.8	4.3	43	0	83.3	70 - 130				
trans-1,3-Dichloropropene	33.6	4.3	43	0	78.1	70 - 130				
Trichloroethene	66.98	4.3	43	0	156	70 - 130				S
Trichlorofluoromethane	33.2	4.3	43	0	77.2	70 - 130				
Vinyl chloride	36.99	1.7	43	0	86.0	70 - 130				
Xylenes, Total	107.6	4.3	129	0	83.4	70 - 130				
Surr: 1,2-Dichloroethane-d4	*43.7*	*0*	*43*	*0*	*102*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*43.31*	*0*	*43*	*0*	*101*	*72 - 120*				
Surr: Dibromofluoromethane	*17.52*	*0*	*43*	*0*	*40.7*	*70 - 130*				S
Surr: Toluene-d8	*41.87*	*0*	*43*	*0*	*97.4*	*82 - 121*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297160 **Instrument: VOA5** **Method: SW8260**

MSD Sample ID: **HS17061403-05MSD** Units: **ug/Kg** Analysis Date: **27-Jun-2017 17:10**
Client ID: **SB-3** Run ID: **VOA5_297160** SeqNo: **4137893** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	32.01	4.0	40	0	80.0	70 - 130	35.56	10.5	30	
1,1,2,2-Tetrachloroethane	0.9546	4.0	40	0	2.39	70 - 130	1.728	0	30	JS
1,1,2-Trichlor-1,2,2-trifluoroethane	32.94	4.0	40	0	82.3	70 - 130	37.45	12.8	30	
1,1,2-Trichloroethane	34.38	4.0	40	0	86.0	70 - 130	40.15	15.5	30	
1,1-Dichloroethane	34.25	4.0	40	0	85.6	70 - 130	38.2	10.9	30	
1,1-Dichloroethene	38.02	4.0	40	0	95.0	70 - 130	40.01	5.1	30	
1,2,4-Trichlorobenzene	28.67	4.0	40	0	71.7	70 - 130	32.55	12.7	30	
1,2-Dibromo-3-chloropropane	29.1	4.0	40	0	72.8	70 - 130	33.7	14.6	30	
1,2-Dibromoethane	37.97	4.0	40	0	94.9	70 - 120	42.1	10.3	30	
1,2-Dichlorobenzene	34.82	4.0	40	0	87.1	70 - 130	37.68	7.88	30	
1,2-Dichloroethane	35.45	4.0	40	0	88.6	70 - 130	39.9	11.8	30	
1,2-Dichloropropane	34.13	4.0	40	0	85.3	70 - 130	38.65	12.4	30	
1,3-Dichlorobenzene	33.84	4.0	40	0	84.6	70 - 130	36.9	8.64	30	
1,4-Dichlorobenzene	33.41	4.0	40	0	83.5	70 - 130	36.64	9.24	30	
2-Butanone	90.18	8.0	80	0	113	70 - 130	97.62	7.92	30	
2-Hexanone	91.3	8.0	80	0	114	70 - 130	96.37	5.41	30	
4-Methyl-2-pentanone	89.11	8.0	80	0	111	70 - 1298	97.4	8.89	30	
Acetone	96.87	16	80	0	121	70 - 130	108.6	11.4	30	
Benzene	34.07	4.0	40	0	85.2	70 - 130	38.61	12.5	30	
Bromodichloromethane	30.22	4.0	40	0	75.5	70 - 130	34.22	12.4	30	
Bromoform	31.14	4.0	40	0	77.8	70 - 130	34.71	10.9	30	
Bromomethane	29.32	8.0	40	0	73.3	70 - 130	33.22	12.5	30	
Carbon disulfide	60.15	8.0	80	0	75.2	70 - 130	67.92	12.1	30	
Carbon tetrachloride	30.47	4.0	40	0	76.2	70 - 130	34.24	11.7	30	
Chlorobenzene	34.38	4.0	40	0	86.0	70 - 130	38.45	11.2	30	
Chloroethane	33.92	8.0	40	0	84.8	70 - 130	37.61	10.3	30	
Chloroform	34.47	4.0	40	0	86.2	70 - 130	38.62	11.4	30	
Chloromethane	33.37	8.0	40	0	83.4	70 - 130	36.5	8.96	30	
cis-1,2-Dichloroethene	33.95	4.0	40	0	84.9	70 - 130	38.42	12.3	30	
cis-1,3-Dichloropropene	27.69	4.0	40	0	69.2	70 - 130	33.62	19.4	30	S
Cyclohexane	33.06	4.0	40	0	82.6	74 - 126	37.93	13.7	30	
Dibromochloromethane	30.88	4.0	40	0	77.2	70 - 130	34.88	12.2	30	
Dichlorodifluoromethane	33.03	4.0	40	0	82.6	70 - 130	37.48	12.6	30	
Ethylbenzene	35.33	4.0	40	0	88.3	70 - 130	38.46	8.48	30	

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297160 **Instrument: VOA5** **Method: SW8260**

MSD Sample ID: **HS17061403-05MSD** Units: **ug/Kg** Analysis Date: **27-Jun-2017 17:10**
Client ID: **SB-3** Run ID: **VOA5_297160** SeqNo: **4137893** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Isopropylbenzene	32.57	4.0	40	0	81.4	70 - 130	36.75	12.1	30	
m,p-Xylene	69.67	8.0	80	0	87.1	70 - 130	76.95	9.92	30	
Methyl acetate	< 0.56	4.0	40	0	0	69 - 123	5.209	0	30	S
Methyl tert-butyl ether	37.26	4.0	40	0	93.1	70 - 130	42.5	13.1	30	
Methylcyclohexane	31.87	4.0	40	0	79.7	77 - 127	37.06	15.1	30	
Methylene chloride	33.31	8.0	40	0	83.3	70 - 130	38.07	13.3	30	
o-Xylene	35.16	4.0	40	0	87.9	70 - 130	38.49	9.03	30	
Styrene	34.57	4.0	40	0	86.4	70 - 130	37.99	9.43	30	
Tetrachloroethene	52.01	4.0	40	0	130	70 - 130	58.65	12	30	S
Toluene	33.95	4.0	40	0	84.9	70 - 130	37.37	9.59	30	
trans-1,2-Dichloroethene	33.94	4.0	40	0	84.9	70 - 130	38.23	11.9	30	
trans-1,3-Dichloropropene	29.61	4.0	40	0	74.0	70 - 130	35.51	18.1	30	
Trichloroethene	63.03	4.0	40	0	158	70 - 130	72.04	13.3	30	S
Trichlorofluoromethane	32.32	4.0	40	0	80.8	70 - 130	36.93	13.3	30	
Vinyl chloride	35.95	1.6	40	0	89.9	70 - 130	40.32	11.4	30	
Xylenes, Total	104.8	4.0	120	0	87.4	70 - 130	115.4	9.62	30	
Surr: 1,2-Dichloroethane-d4	*39.7*	*0*	*40*	*0*	*99.2*	*70 - 126*	*48.28*	*19.5*	*30*	
Surr: 4-Bromofluorobenzene	*39.3*	*0*	*40*	*0*	*98.3*	*72 - 120*	*46.16*	*16*	*30*	
Surr: Dibromofluoromethane	*20.67*	*0*	*40*	*0*	*51.7*	*70 - 130*	*27.13*	*27*	*30*	S
Surr: Toluene-d8	*39.29*	*0*	*40*	*0*	*98.2*	*82 - 121*	*44.57*	*12.6*	*30*	

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297160 **Instrument: VOA5** **Method: SW8260**

MSD Sample ID: **HS17061402-08MSD** Units: **ug/Kg** Analysis Date: **27-Jun-2017 17:58**
Client ID: Run ID: **VOA5_297160** SeqNo: **4137895** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	37.56	3.9	39	0	96.3	70 - 130	33.78	10.6	30	
1,1,2,2-Tetrachloroethane	1.078	3.9	39	0	2.76	70 - 130	1.085	0	30	JS
1,1,2-Trichlor-1,2,2-trifluoroethane	38.94	3.9	39	0	99.8	70 - 130	34.07	13.3	30	
1,1,2-Trichloroethane	38.23	3.9	39	0	98.0	70 - 130	35.89	6.32	30	
1,1-Dichloroethane	40.11	3.9	39	0	103	70 - 130	35.82	11.3	30	
1,1-Dichloroethene	47.21	3.9	39	0	121	70 - 130	41.41	13.1	30	
1,2,4-Trichlorobenzene	32.13	3.9	39	0	82.4	70 - 130	30.12	6.46	30	
1,2-Dibromo-3-chloropropane	32.06	3.9	39	0	82.2	70 - 130	29.4	8.68	30	
1,2-Dibromoethane	44.37	3.9	39	0	114	70 - 120	41.82	5.93	30	
1,2-Dichlorobenzene	39.21	3.9	39	0	101	70 - 130	35.77	9.18	30	
1,2-Dichloroethane	41.27	3.9	39	0	106	70 - 130	38.47	7.01	30	
1,2-Dichloropropane	40.03	3.9	39	0	103	70 - 130	36.96	7.99	30	
1,3-Dichlorobenzene	38.87	3.9	39	0	99.7	70 - 130	34.6	11.6	30	
1,4-Dichlorobenzene	38.22	3.9	39	0	98.0	70 - 130	33.81	12.2	30	
2-Butanone	107.7	7.8	78	0	138	70 - 130	97.08	10.3	30	S
2-Hexanone	107.1	7.8	78	0	137	70 - 130	96.58	10.3	30	S
4-Methyl-2-pentanone	106.8	7.8	78	0	137	70 - 1298	95.33	11.3	30	
Acetone	125.3	16	78	16.99	139	70 - 130	126.9	1.27	30	S
Benzene	39.48	3.9	39	0	101	70 - 130	35.47	10.7	30	
Bromodichloromethane	35.37	3.9	39	0	90.7	70 - 130	31.61	11.2	30	
Bromoform	37.9	3.9	39	0	97.2	70 - 130	33.9	11.2	30	
Bromomethane	32.28	7.8	39	0	82.8	70 - 130	29.38	9.43	30	
Carbon disulfide	64.75	7.8	78	0	83.0	70 - 130	60.74	6.39	30	
Carbon tetrachloride	35.54	3.9	39	0	91.1	70 - 130	31.36	12.5	30	
Chlorobenzene	40.08	3.9	39	0	103	70 - 130	35.41	12.4	30	
Chloroethane	39.37	7.8	39	0	101	70 - 130	35.35	10.7	30	
Chloroform	40.07	3.9	39	0	103	70 - 130	36.15	10.3	30	
Chloromethane	38.45	7.8	39	0	98.6	70 - 130	34.29	11.5	30	
cis-1,2-Dichloroethene	39.7	3.9	39	0	102	70 - 130	34.95	12.7	30	
cis-1,3-Dichloropropene	34.52	3.9	39	0	88.5	70 - 130	32.31	6.6	30	
Cyclohexane	39.02	3.9	39	0	100	74 - 126	34.33	12.8	30	
Dibromochloromethane	36.91	3.9	39	0	94.7	70 - 130	33.42	9.94	30	
Dichlorodifluoromethane	37.11	3.9	39	0	95.2	70 - 130	33.64	9.82	30	
Ethylbenzene	40.89	3.9	39	0	105	70 - 130	35.77	13.4	30	

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297160 **Instrument: VOA5** **Method: SW8260**

MSD Sample ID: **HS17061402-08MSD** Units: **ug/Kg** Analysis Date: **27-Jun-2017 17:58**
Client ID: Run ID: **VOA5_297160** SeqNo: **4137895** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Isopropylbenzene	37.89	3.9	39	0	97.1	70 - 130	33.38	12.7	30	
m,p-Xylene	80.77	7.8	78	0	104	70 - 130	71.58	12.1	30	
Methyl acetate	< 0.55	3.9	39	0	0	69 - 123	0	0	30	S
Methyl tert-butyl ether	43.53	3.9	39	0	112	70 - 130	40.65	6.83	30	
Methylcyclohexane	37.51	3.9	39	0	96.2	77 - 127	33.4	11.6	30	
Methylene chloride	40.56	7.8	39	0	104	70 - 130	37.54	7.73	30	
o-Xylene	40.85	3.9	39	0	105	70 - 130	35.98	12.7	30	
Styrene	40.51	3.9	39	0	104	70 - 130	36.06	11.6	30	
Tetrachloroethene	60.93	3.9	39	0	156	70 - 130	54	12.1	30	S
Toluene	39.41	3.9	39	0	101	70 - 130	35.03	11.8	30	
trans-1,2-Dichloroethene	39.6	3.9	39	0	102	70 - 130	35.8	10.1	30	
trans-1,3-Dichloropropene	35.57	3.9	39	0	91.2	70 - 130	33.6	5.69	30	
Trichloroethene	76.08	3.9	39	0	195	70 - 130	66.98	12.7	30	S
Trichlorofluoromethane	38.01	3.9	39	0	97.5	70 - 130	33.2	13.5	30	
Vinyl chloride	40.91	1.6	39	0	105	70 - 130	36.99	10.1	30	
Xylenes, Total	121.6	3.9	117	0	104	70 - 130	107.6	12.3	30	
Surr: 1,2-Dichloroethane-d4	*38.58*	*0*	*39*	*0*	*98.9*	*70 - 126*	*43.7*	*12.4*	*30*	
Surr: 4-Bromofluorobenzene	*38.6*	*0*	*39*	*0*	*99.0*	*72 - 120*	*43.31*	*11.5*	*30*	
Surr: Dibromofluoromethane	*16.48*	*0*	*39*	*0*	*42.3*	*70 - 130*	*17.52*	*6.11*	*30*	S
Surr: Toluene-d8	*38.56*	*0*	*39*	*0*	*98.9*	*82 - 121*	*41.87*	*8.23*	*30*	

The following samples were analyzed in this batch: HS17061403-03 HS17061403-04 HS17061403-05 HS17061403-06

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297400 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-170630** Units: **ug/L** Analysis Date: **30-Jun-2017 12:41**
Client ID: Run ID: **VOA1_297400** SeqNo: **4142826** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	< 0.20	1.0								
1,1,2,2-Tetrachloroethane	< 0.50	1.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	< 1.0	1.0								
1,1,2-Trichloroethane	< 0.30	1.0								
1,1-Dichloroethane	< 0.20	1.0								
1,1-Dichloroethene	< 0.20	1.0								
1,2,4-Trichlorobenzene	< 0.50	1.0								
1,2-Dibromo-3-chloropropane	< 1.0	1.0								
1,2-Dibromoethane	< 0.20	1.0								
1,2-Dichlorobenzene	< 0.50	1.0								
1,2-Dichloroethane	< 0.20	1.0								
1,2-Dichloropropane	< 0.50	1.0								
1,3-Dichlorobenzene	< 0.40	1.0								
1,4-Dichlorobenzene	< 0.40	1.0								
2-Butanone	< 0.50	2.0								
2-Hexanone	< 1.0	2.0								
4-Methyl-2-pentanone	< 0.70	2.0								
Acetone	< 2.0	2.0								
Benzene	< 0.20	1.0								
Bromodichloromethane	< 0.20	1.0								
Bromoform	< 0.40	1.0								
Bromomethane	< 0.40	1.0								
Carbon disulfide	< 0.60	2.0								
Carbon tetrachloride	< 0.50	1.0								
Chlorobenzene	< 0.30	1.0								
Chloroethane	< 0.30	1.0								
Chloroform	< 0.20	1.0								
Chloromethane	< 0.20	1.0								
cis-1,2-Dichloroethene	< 0.20	1.0								
cis-1,3-Dichloropropene	< 0.10	1.0								
Cyclohexane	< 0.30	1.0								
Dibromochloromethane	< 0.30	1.0								
Dichlorodifluoromethane	< 0.30	1.0								
Ethylbenzene	< 0.30	1.0								

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297400 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-170630** Units: **ug/L** Analysis Date: **30-Jun-2017 12:41**
Client ID: Run ID: **VOA1_297400** SeqNo: **4142826** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	< 0.30	1.0								
m,p-Xylene	< 0.50	2.0								
Methyl acetate	< 1.0	1.0								
Methyl tert-butyl ether	< 0.20	1.0								
Methylcyclohexane	< 0.30	1.0								
Methylene chloride	< 1.0	2.0								
o-Xylene	< 0.30	1.0								
Styrene	< 0.30	1.0								
Tetrachloroethene	< 0.30	1.0								
Toluene	< 0.20	1.0								
trans-1,2-Dichloroethene	< 0.20	1.0								
trans-1,3-Dichloropropene	< 0.20	1.0								
Trichloroethene	< 0.20	1.0								
Trichlorofluoromethane	< 0.30	1.0								
Vinyl chloride	< 0.20	1.0								
Xylenes, Total	< 0.30	1.0								
Surr: 1,2-Dichloroethane-d4	*48.55*	*1.0*	*50*	*0*	*97.1*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*48.87*	*1.0*	*50*	*0*	*97.7*	*82 - 115*				
Surr: Dibromofluoromethane	*49.22*	*1.0*	*50*	*0*	*98.4*	*73 - 126*				
Surr: Toluene-d8	*50.22*	*1.0*	*50*	*0*	*100*	*81 - 120*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297400 **Instrument: VOA1** **Method: SW8260**

LCS Sample ID: **VLCSW-170630** Units: **ug/L** Analysis Date: **30-Jun-2017 13:08**
Client ID: Run ID: **VOA1_297400** SeqNo: **4142827** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	44.8	1.0	50	0	89.6	70 - 130				
1,1,2,2-Tetrachloroethane	50.32	1.0	50	0	101	70 - 120				
1,1,2-Trichlor-1,2,2-trifluoroethane	41.99	1.0	50	0	84.0	70 - 130				
1,1,2-Trichloroethane	43.38	1.0	50	0	86.8	77 - 113				
1,1-Dichloroethane	43.8	1.0	50	0	87.6	71 - 122				
1,1-Dichloroethene	41.99	1.0	50	0	84.0	70 - 130				
1,2,4-Trichlorobenzene	38.74	1.0	50	0	77.5	77 - 126				
1,2-Dibromo-3-chloropropane	54.63	1.0	50	0	109	70 - 130				
1,2-Dibromoethane	49.24	1.0	50	0	98.5	76 - 123				
1,2-Dichlorobenzene	44.59	1.0	50	0	89.2	77 - 113				
1,2-Dichloroethane	46.79	1.0	50	0	93.6	70 - 124				
1,2-Dichloropropane	43.99	1.0	50	0	88.0	72 - 119				
1,3-Dichlorobenzene	44	1.0	50	0	88.0	78 - 118				
1,4-Dichlorobenzene	42.09	1.0	50	0	84.2	79 - 113				
2-Butanone	92.1	2.0	100	0	92.1	70 - 130				
2-Hexanone	101.9	2.0	100	0	102	70 - 130				
4-Methyl-2-pentanone	103.9	2.0	100	0	104	70 - 130				
Acetone	103.5	2.0	100	0	103	70 - 130				
Benzene	43.61	1.0	50	0	87.2	74 - 120				
Bromodichloromethane	46.41	1.0	50	0	92.8	74 - 122				
Bromoform	55.4	1.0	50	0	111	73 - 128				
Bromomethane	35.5	1.0	50	0	71.0	70 - 130				
Carbon disulfide	87.36	2.0	100	0	87.4	70 - 130				
Carbon tetrachloride	44.84	1.0	50	0	89.7	71 - 125				
Chlorobenzene	44.13	1.0	50	0	88.3	76 - 113				
Chloroethane	39.86	1.0	50	0	79.7	70 - 130				
Chloroform	46.21	1.0	50	0	92.4	71 - 121				
Chloromethane	40.18	1.0	50	0	80.4	70 - 129				
cis-1,2-Dichloroethene	44.76	1.0	50	0	89.5	75 - 122				
cis-1,3-Dichloropropene	50.79	1.0	50	0	102	73 - 127				
Cyclohexane	40.27	1.0	50	0	80.5	70 - 130				
Dibromochloromethane	50.35	1.0	50	0	101	77 - 122				
Dichlorodifluoromethane	40.29	1.0	50	0	80.6	70 - 130				
Ethylbenzene	44.1	1.0	50	0	88.2	77 - 117				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297400 **Instrument: VOA1** **Method: SW8260**

LCS Sample ID: **VLCSW-170630** Units: **ug/L** Analysis Date: **30-Jun-2017 13:08**
Client ID: Run ID: **VOA1_297400** SeqNo: **4142827** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	45.78	1.0	50	0	91.6	73 - 127				
m,p-Xylene	85.4	2.0	100	0	85.4	77 - 122				
Methyl acetate	47.11	1.0	50	0	94.2	76 - 122				
Methyl tert-butyl ether	44.73	1.0	50	0	89.5	70 - 130				
Methylcyclohexane	41.55	1.0	50	0	83.1	61 - 157				
Methylene chloride	45.66	2.0	50	0	91.3	70 - 127				
o-Xylene	44.82	1.0	50	0	89.6	75 - 119				
Styrene	48.96	1.0	50	0	97.9	72 - 126				
Tetrachloroethene	44.27	1.0	50	0	88.5	76 - 119				
Toluene	46.43	1.0	50	0	92.9	77 - 118				
trans-1,2-Dichloroethene	43.13	1.0	50	0	86.3	72 - 127				
trans-1,3-Dichloropropene	47.03	1.0	50	0	94.1	77 - 119				
Trichloroethene	48.17	1.0	50	0	96.3	77 - 121				
Trichlorofluoromethane	45.5	1.0	50	0	91.0	70 - 130				
Vinyl chloride	44.54	1.0	50	0	89.1	70 - 130				
Xylenes, Total	130.2	1.0	150	0	86.8	75 - 122				
Surr: 1,2-Dichloroethane-d4	*49.25*	*1.0*	*50*	*0*	*98.5*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*49.57*	*1.0*	*50*	*0*	*99.1*	*82 - 115*				
Surr: Dibromofluoromethane	*48.87*	*1.0*	*50*	*0*	*97.7*	*73 - 126*				
Surr: Toluene-d8	*49.66*	*1.0*	*50*	*0*	*99.3*	*81 - 120*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297400 **Instrument: VOA1** **Method: SW8260**

MS Sample ID: **HS17061401-28MS** Units: **ug/L** Analysis Date: **30-Jun-2017 14:54**
Client ID: Run ID: **VOA1_297400** SeqNo: **4143261** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	2120	50	2500	0	84.8	70 - 130				
1,1,2,2-Tetrachloroethane	2455	50	2500	0	98.2	70 - 123				
1,1,2-Trichlor-1,2,2-trifluoroethane	2064	50	2500	0	82.5	70 - 130				
1,1,2-Trichloroethane	2384	50	2500	0	95.3	70 - 117				
1,1-Dichloroethane	2323	50	2500	0	92.9	70 - 127				
1,1-Dichloroethene	2525	50	2500	393.6	85.3	70 - 130				
1,2,4-Trichlorobenzene	1883	50	2500	0	75.3	70 - 125				
1,2-Dibromo-3-chloropropane	2969	50	2500	0	119	70 - 130				
1,2-Dibromoethane	2593	50	2500	0	104	70 - 124				
1,2-Dichlorobenzene	2249	50	2500	0	90.0	70 - 115				
1,2-Dichloroethane	2233	50	2500	0	89.3	70 - 127				
1,2-Dichloropropane	2112	50	2500	0	84.5	70 - 122				
1,3-Dichlorobenzene	2244	50	2500	0	89.8	70 - 119				
1,4-Dichlorobenzene	2082	50	2500	0	83.3	70 - 114				
2-Butanone	5469	100	5000	0	109	70 - 130				
2-Hexanone	5606	100	5000	0	112	70 - 130				
4-Methyl-2-pentanone	5646	100	5000	0	113	70 - 130				
Acetone	6066	100	5000	0	121	70 - 130				
Benzene	1984	50	2500	0	79.3	70 - 127				
Bromodichloromethane	2301	50	2500	0	92.1	70 - 124				
Bromoform	2906	50	2500	0	116	70 - 129				
Bromomethane	1758	50	2500	0	70.3	70 - 130				
Carbon disulfide	4081	100	5000	0	81.6	70 - 130				
Carbon tetrachloride	418.8	50	2500	0	16.8	70 - 130				S
Chlorobenzene	2141	50	2500	0	85.6	70 - 114				
Chloroethane	1774	50	2500	0	71.0	70 - 130				
Chloroform	2213	50	2500	0	88.5	70 - 125				
Chloromethane	2014	50	2500	0	80.6	70 - 130				
cis-1,2-Dichloroethene	4250	50	2500	2374	75.0	70 - 128				
cis-1,3-Dichloropropene	2500	50	2500	0	100.0	70 - 125				
Cyclohexane	2130	50	2500	0	85.2	70 - 130				
Dibromochloromethane	2615	50	2500	0	105	70 - 124				
Dichlorodifluoromethane	1901	50	2500	0	76.0	70 - 130				
Ethylbenzene	2126	50	2500	0	85.0	70 - 124				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297400 **Instrument: VOA1** **Method: SW8260**

MS Sample ID: **HS17061401-28MS** Units: **ug/L** Analysis Date: **30-Jun-2017 14:54**
Client ID: Run ID: **VOA1_297400** SeqNo: **4143261** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	1994	50	2500	0	79.7	70 - 130				
m,p-Xylene	4439	100	5000	0	88.8	70 - 130				
Methyl acetate	2661	50	2500	0	106	76 - 122				
Methyl tert-butyl ether	2652	50	2500	0	106	70 - 130				
Methylcyclohexane	2203	50	2500	0	88.1	61 - 158				
Methylene chloride	2445	100	2500	0	97.8	70 - 128				
o-Xylene	2368	50	2500	0	94.7	70 - 124				
Styrene	2491	50	2500	0	99.6	70 - 130				
Tetrachloroethene	2163	50	2500	38.74	85.0	70 - 130				
Toluene	2203	50	2500	0	88.1	70 - 123				
trans-1,2-Dichloroethene	2223	50	2500	0	88.9	70 - 130				
trans-1,3-Dichloropropene	2471	50	2500	0	98.8	70 - 121				
Trichloroethene	4384	50	2500	2686	67.9	70 - 129				S
Trichlorofluoromethane	2194	50	2500	0	87.8	70 - 130				
Vinyl chloride	2116	50	2500	76.65	81.6	70 - 130				
Xylenes, Total	6807	50	7500	0	90.8	70 - 130				
Surr: 1,2-Dichloroethane-d4	*2586*	*50*	*2500*	*0*	*103*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*2636*	*50*	*2500*	*0*	*105*	*81 - 113*				
Surr: Dibromofluoromethane	*2545*	*50*	*2500*	*0*	*102*	*77 - 123*				
Surr: Toluene-d8	*2483*	*50*	*2500*	*0*	*99.3*	*87 - 117*				

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297400 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS17061401-28MSD** Units: **ug/L** Analysis Date: **30-Jun-2017 15:21**
Client ID: Run ID: **VOA1_297400** SeqNo: **4143262** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	2290	50	2500	0	91.6	70 - 130	2120	7.71	20	
1,1,2,2-Tetrachloroethane	2655	50	2500	0	106	70 - 123	2455	7.85	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	2013	50	2500	0	80.5	70 - 130	2064	2.48	20	
1,1,2-Trichloroethane	2453	50	2500	0	98.1	70 - 117	2384	2.89	20	
1,1-Dichloroethane	2319	50	2500	0	92.7	70 - 127	2323	0.2	20	
1,1-Dichloroethene	2346	50	2500	393.6	78.1	70 - 130	2525	7.35	20	
1,2,4-Trichlorobenzene	2418	50	2500	0	96.7	70 - 125	1883	24.8	20	R
1,2-Dibromo-3-chloropropane	3225	50	2500	0	129	70 - 130	2969	8.24	20	
1,2-Dibromoethane	2662	50	2500	0	106	70 - 124	2593	2.63	20	
1,2-Dichlorobenzene	2458	50	2500	0	98.3	70 - 115	2249	8.88	20	
1,2-Dichloroethane	2388	50	2500	0	95.5	70 - 127	2233	6.71	20	
1,2-Dichloropropane	2293	50	2500	0	91.7	70 - 122	2112	8.22	20	
1,3-Dichlorobenzene	2268	50	2500	0	90.7	70 - 119	2244	1.04	20	
1,4-Dichlorobenzene	2297	50	2500	0	91.9	70 - 114	2082	9.83	20	
2-Butanone	5012	100	5000	0	100	70 - 130	5469	8.71	20	
2-Hexanone	5247	100	5000	0	105	70 - 130	5606	6.62	20	
4-Methyl-2-pentanone	5581	100	5000	0	112	70 - 130	5646	1.16	20	
Acetone	5560	100	5000	0	111	70 - 130	6066	8.72	20	
Benzene	2228	50	2500	0	89.1	70 - 127	1984	11.6	20	
Bromodichloromethane	2465	50	2500	0	98.6	70 - 124	2301	6.86	20	
Bromoform	2924	50	2500	0	117	70 - 129	2906	0.635	20	
Bromomethane	1885	50	2500	0	75.4	70 - 130	1758	7	20	
Carbon disulfide	4027	100	5000	0	80.5	70 - 130	4081	1.34	20	
Carbon tetrachloride	2265	50	2500	0	90.6	70 - 130	418.8	138	20	R
Chlorobenzene	2288	50	2500	0	91.5	70 - 114	2141	6.65	20	
Chloroethane	2030	50	2500	0	81.2	70 - 130	1774	13.4	20	
Chloroform	2048	50	2500	0	81.9	70 - 125	2213	7.74	20	
Chloromethane	1778	50	2500	0	71.1	70 - 130	2014	12.4	20	
cis-1,2-Dichloroethene	4400	50	2500	2374	81.0	70 - 128	4250	3.47	20	
cis-1,3-Dichloropropene	2428	50	2500	0	97.1	70 - 125	2500	2.93	20	
Cyclohexane	2146	50	2500	0	85.8	70 - 130	2130	0.734	20	
Dibromochloromethane	2593	50	2500	0	104	70 - 124	2615	0.825	20	
Dichlorodifluoromethane	1947	50	2500	0	77.9	70 - 130	1901	2.4	20	
Ethylbenzene	2331	50	2500	0	93.2	70 - 124	2126	9.19	20	

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297400 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS17061401-28MSD** Units: **ug/L** Analysis Date: **30-Jun-2017 15:21**
Client ID: Run ID: **VOA1_297400** SeqNo: **4143262** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	2278	50	2500	0	91.1	70 - 130	1994	13.3	20	
m,p-Xylene	4239	100	5000	0	84.8	70 - 130	4439	4.6	20	
Methyl acetate	2384	50	2500	0	95.3	76 - 122	2661	11	20	
Methyl tert-butyl ether	2513	50	2500	0	101	70 - 130	2652	5.38	20	
Methylcyclohexane	2142	50	2500	0	85.7	61 - 158	2203	2.82	20	
Methylene chloride	2266	100	2500	0	90.7	70 - 128	2445	7.57	20	
o-Xylene	2291	50	2500	0	91.6	70 - 124	2368	3.29	20	
Styrene	2264	50	2500	0	90.5	70 - 130	2491	9.57	20	
Tetrachloroethene	2182	50	2500	38.74	85.7	70 - 130	2163	0.854	20	
Toluene	2201	50	2500	0	88.0	70 - 123	2203	0.104	20	
trans-1,2-Dichloroethene	2115	50	2500	0	84.6	70 - 130	2223	4.99	20	
trans-1,3-Dichloropropene	2571	50	2500	0	103	70 - 121	2471	3.99	20	
Trichloroethene	4645	50	2500	2686	78.4	70 - 129	4384	5.79	20	
Trichlorofluoromethane	2245	50	2500	0	89.8	70 - 130	2194	2.32	20	
Vinyl chloride	1972	50	2500	76.65	75.8	70 - 130	2116	7.06	20	
Xylenes, Total	6530	50	7500	0	87.1	70 - 130	6807	4.14	20	
Surr: 1,2-Dichloroethane-d4	*2353*	*50*	*2500*	*0*	*94.1*	*70 - 126*	*2586*	*9.43*	*20*	
Surr: 4-Bromofluorobenzene	*2560*	*50*	*2500*	*0*	*102*	*81 - 113*	*2636*	*2.93*	*20*	
Surr: Dibromofluoromethane	*2415*	*50*	*2500*	*0*	*96.6*	*77 - 123*	*2545*	*5.24*	*20*	
Surr: Toluene-d8	*2465*	*50*	*2500*	*0*	*98.6*	*87 - 117*	*2483*	*0.748*	*20*	

The following samples were analyzed in this batch: HS17061403-07

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: HS17061403

QC BATCH REPORT

Batch ID: R297247 **Instrument: Balance1** **Method: ASTM D2216**

DUP Sample ID: **HS17061403-05DUP** Units: **wt%** Analysis Date: **27-Jun-2017 12:33**
Client ID: **SB-3** Run ID: **Balance1_297247** SeqNo: **4138990** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	26.9	0.0100					26.7	0.746	20	

DUP Sample ID: **HS17061402-08DUP** Units: **wt%** Analysis Date: **27-Jun-2017 12:33**
Client ID: Run ID: **Balance1_297247** SeqNo: **4138989** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	8.11	0.0100					8.12	0.123	20	

The following samples were analyzed in this batch: HS17061403-03 HS17061403-04 HS17061403-05 HS17061403-06

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

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
WorkOrder: **HS17061403**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
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/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
µg/Kg-dry	Micrograms per Kilogram- Dry weight corrected
mg/Kg-dry	Milligrams per Kilogram- Dry weight corrected

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	17-027-0	27-Mar-2018
California	2919 2016-2018	31-Jul-2018
Illinois	004112	09-May-2018
Kansas	E-10352 2016-2017	31-Jul-2017
Kentucky	123043	30-Apr-2018
Louisiana	03087 2017-2017	30-Jun-2018
North Carolina	624-2017	31-Dec-2017
Oklahoma	2016-122	31-Aug-2017
Texas	T104704231-17-18	30-Apr-2018

Client: Tetra Tech, Inc.
Project: Ponca Tribe FHM Site
Work Order: HS17061403

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS17061403-01	SS-1	Login	6/23/2017 7:14:45 PM	CL	Sub
HS17061403-01	SS-1	Login	6/23/2017 7:14:45 PM	CL	SPA017
HS17061403-02	SS-2	Login	6/23/2017 7:14:45 PM	CL	Sub
HS17061403-02	SS-2	Login	6/23/2017 7:14:45 PM	CL	SPA017
HS17061403-03	SB-1	Login	6/23/2017 7:14:45 PM	CL	VOA114
HS17061403-03	SB-1	Login	6/23/2017 7:14:45 PM	CL	LF048
HS17061403-03	SB-1	Login	6/23/2017 7:14:45 PM	CL	5035
HS17061403-03	SB-1	Login	6/23/2017 7:14:45 PM	CL	5035
HS17061403-04	SB-2	Login	6/23/2017 7:14:45 PM	CL	VOA114
HS17061403-04	SB-2	Login	6/23/2017 7:14:45 PM	CL	LF048
HS17061403-04	SB-2	Login	6/23/2017 7:14:45 PM	CL	5035
HS17061403-04	SB-2	Login	6/23/2017 7:14:45 PM	CL	5035
HS17061403-05	SB-3	Login	6/23/2017 7:14:45 PM	CL	VOA114
HS17061403-05	SB-3	Login	6/23/2017 7:14:45 PM	CL	LF048
HS17061403-05	SB-3	Login	6/23/2017 7:14:45 PM	CL	5035
HS17061403-05	SB-3	Login	6/23/2017 7:14:45 PM	CL	5035
HS17061403-06	SB-4	Login	6/23/2017 7:14:45 PM	CL	VOA114
HS17061403-06	SB-4	Login	6/23/2017 7:14:45 PM	CL	LF048
HS17061403-06	SB-4	Login	6/23/2017 7:14:45 PM	CL	5035
HS17061403-06	SB-4	Login	6/23/2017 7:14:45 PM	CL	5035
HS17061403-07	Trip Blank-1	Login	6/23/2017 7:14:45 PM	CL	VOA111

Sample Receipt Checklist

Client Name: TetraTech-KS City, MO
Work Order: HS17061403

Date/Time Received: **22-Jun-2017 08:33**
Received by: **NDR**

Checklist completed by: *Cesar A. Lira* eSignature — 23-Jun-2017 Date

Reviewed by: *Dane J. Wacasey* eSignature — 26-Jun-2017 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 ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.2c/2.4c uc/c	IR15	
Cooler(s)/Kit(s):	25252		
Date/Time sample(s) sent to storage:	6/22/2017 1910		
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: Received trip blank (VBLKW-061517-03) not on COC logged on Hold.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 164833

HS17061403

WV

Tetra Tech, Inc.
Ponca Tribe and FHM Site

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	Ponca Tribe & ~~East Penn~~ FHM Site
Work Order		Project Number	
Company Name	Tetra Tech, Inc.	Bill To Company	Tetra Tech, Inc.
Send Report To	Emily Fisher	Invoice Attn	AP
Address	415 Oak Street	Address	415 Oak Street
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City MO 64106
Phone	(816) 412-1741	Phone	(816) 412-1741
Fax		Fax	
e-Mail Address	Emily.Fisher@tetratech.com	e-Mail Address	Kaitlyn.Buhre@tetratech.com

A	*5035/8260* VOCs K-Asbestos
B	8260 VOCs (GW)
C	*5035/8015 TPH-P* (GRO)
D	8015 TPH-P (GRO) (GW)
E	8270 SVOC
F	8015 TPH-E (DRO)
G	RCRA 8 Metals
H	RCRA 8 Dissolved (Fld Filtr)
I	Moisture%
J	MS/MSD

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	K	Hold
1	SS-1	6/21/17	11:30	Soil		1												
2	SS-2	6/21/17	11:30			1							X				X	
3	SB-1	6/20/17	1449			7	X		X		X	X	X		X		X	
4	SB-2	6/20/17	1518			7	X		X		X	X	X		X			
5	SB-3	6/20/17	1620			21	X		X		X	X	X		X	X		
6	SB-4	6/20/17	1645			7	X		X		X	X	X		X			
7																		
8																		
9																		
10																		

Sampler(s) Please Print & Sign: Megan Sawyer Megan Sawyer

Shipment Method: FedEx

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

	Date:	Time:	
Relinquished by: Megan Sawyer	6/21/17		Received by:
Relinquished by:	Date:	Time:	Received by (Laboratory): NR 6.22.17 0833
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.
21554	1.0
25252	2.2

QC Package: (Check One Box Below)
[X] Level II Std QC
[ ] Level III Std QC/Raw Data
[ ] Level IV SW846/CLP
[ ] Other
[ ] TRRP Checklist
[ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse

12=15 COC 0.2

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

25252

CUSTODY SEAL

Date: 6/21/17 Time:
Name: Kaitlyn Bank
Company: Test Tech

Seal Broken By:
Date: 6/22/17

25252 JUN 22 2017

FedEx
TRK# 0221 7376 9746 5894

THU – 22 JUN 10:30A
PRIORITY OVERNIGHT

XH SGRA 25252

77099
TX-US IAH

J3 Resources, Inc.
6110 W. 34th Street, Houston, Texas 77092
Phone: (713) 290-0221 - Fax: (713) 290-0248
J3Resources.com

Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)

EPA 600/M4-82-020; 600/R-93/116

Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road Suite 210
Houston TX 77099

J3 Order #: JH1786769
Project #: HS17061403
Date Received: 29-Jun-2017
Date Analyzed: 29-Jun-2017
Date Reported: 30-Jun-2017

HS17061403

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
HS17061403-01	Soil, Brown, Homogeneous	None Detected	Non-Fibrous Material	100%
HS17061403-02	Soil, Brown, Homogeneous	None Detected	Non-Fibrous Material	100%

Duane Salinas Analyst

Scott Ward, Ph.D. Lab Director

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

867109

Subcontract Chain of Custody

COC ID: **HS17061403**

SUBCONTRACT TO:

J3 Resources, Inc.
6110 W. 34th Street
Houston, Texas 77092

Phone: +1 713 290 0221

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS17061403
TSR:	Tom Kissinger

	LAB SAMPLE ID / ANALYSIS REQUESTED	CLIENT SAMPLE ID	MATRIX	COLLECT DATE / DUE DATE
1.	**HS17061403-01**	**SS-1**	**Soil**	**21 Jun 2017 11:30**
	Asbestos (PLM Qualitative)			05 Jul 2017
2.	**HS17061403-02**	**SS-2**	**Soil**	**21 Jun 2017 11:30**
	Asbestos (PLM Qualitative)			05 Jul 2017

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

Asbestos (PLM Qualitative)

QC Level: STD (Laboratory Standard QC: method blank and LCS required)

Relinquished By: J. Wacasey — Date/Time: 6/26/17 13:12

Received By: — Date/Time: 6/26/17 13:12

Cooler ID(s): — Temperature(s):

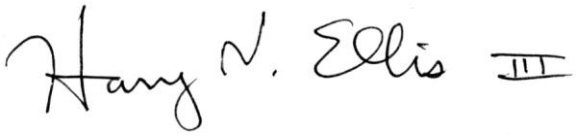
Tetra Tech, Inc.
DATA VALIDATION REPORT
LEVEL II

Site:	Ponca Tribe, Former Health Module Site
Laboratory:	ALS Environmental Group (Houston, Texas)
Data Reviewer:	Harry Ellis, Tetra Tech, Inc. (Tetra Tech)
Review Date	August 2, 2017
Sample Delivery Group (SDG):	17061403
Sample Numbers:	SS-1, SS-2, SB-1, SB-2, SB-3, SB-4, and Trip Blank-1
Matrix / Number of Samples:	Six Soil Samples and One Blank Sample

The data were qualified according to the U.S. Environmental Protection Agency (EPA) Region 7 documents entitled "Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", dated January 2017, and "Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review", also dated January 2017. In addition, the Tetra Tech document "Review of Data Packages from Subcontracted Laboratories" (February 2002) was used along with other criteria specified in the applicable methods.

The review was intended to identify problems and quality control (QC) deficiencies that were readily apparent from the summary data package. The following sections discuss any problems or deficiencies that were found, and data qualifications applied because of non-compliant QC. The data review was limited to the available field and laboratory QC information submitted with the project-specific data package.

I, Harry Ellis, certify that all data validation criteria outlined in the above-referenced documents were assessed, and any qualifications made to the data accorded with those documents.



2 August 2017

Certified by Harry Ellis, Chemist — Date

DATA VALIDATION QUALIFIERS

U — The analyte was not detected above the reported sample quantitation limit.

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

UJ — The analyte was not detected above the reported sample quantitation limit, which is estimated.

R — The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria. Presence or absence of the analyte cannot be verified.

DATA ASSESSMENT

Sample delivery group (SDG) 17061403 included six (6) environmental soil samples and one (1) quality control (QC) sample (a trip blank). Samples were analyzed for volatile organic compounds (VOC) by EPA SW-846 Method 8260G, semivolatile organic compounds (SVOC) by EPA SW-846 Method 8270D, total petroleum hydrocarbons (TPH) by EPA SW-846 Method 8015C as gasoline range organics (GRO), diesel range organics (DRO, and oil range organics (ORO), and metals by EPA SW-846 Methods 6020A and 7471B. All samples did not receive all analyses. The following summarizes the data validation that was performed.

VOLATILE ORGANIC COMPOUND ANALYSES

I. Holding Time and Chain of Custody (COC) Requirements

The samples were received by the laboratory and analyzed within the established holding time of 14 days from sample collection to analysis. No data were qualified.

II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD analyses performed on samples from other sites were not evaluated.

In the soil MS/MSD analyses performed on sample SB-3, 1,1,2,2-tetrachloroethane and methyl acetate yielded recoveries below their QC limits. Therefore the undetected results for those analytes in the parent sample were qualified as estimated, possibly biased low, and flagged "UJ". cis-1,3-Dichloropropene yielded an MSD recovery below QC limits, but a MS recover within those limits. No qualifications were applied. Tetrachloroethene and trichloroethene yielded recoveries above their QC limits. Neither of these analytes was detected in the unspiked sample, so no qualifications were applied.

III. Blanks

The laboratory (method) blanks yielded no detectable concentrations of analytes, but the trip blank yielded a low concentration of carbon disulfide. That analyte was not detected in any of the other samples, so no qualifications were applied.

IV. Laboratory Control Sample (LCS)

All percent recoveries from the LCS analyses were within established control limits. No qualifications were applied.

V. Surrogates

Most surrogate recoveries were within their QC limits. However, dibromofluoromethane yielded somewhat low recoveries due to interactions with the preservative trisodium phosphate. No qualifications were applied.

VI. Comments

Some detected concentrations were less than their reporting limits ("RL"). These low-concentration results were qualified as estimated (flagged "J").

VII. Overall Assessment of Data

Overall data quality is acceptable, with no significant qualifications applied. All data are usable as qualified for their intended purposes.

SEMIVOLATILE ORGANIC COMPOUND ANALYSES

I. Holding Time and Chain of Custody (COC) Requirements

The samples were received by the laboratory and analyzed within the established holding time of 14 days from sample collection to extraction and 40 days to analysis. No data were qualified.

II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The MS/MSD analyses were performed on sample SB-3. The major irregularity was low recoveries for benzaldehyde. Therefore the nondetected result for benzaldehyde in the unspiked sample was qualified as estimated, possibly biased low, and flagged "UJ". In addition a couple of analytes had acceptable recoveries, but slightly excessive relative percent differences. None of these was detected in the sample, so no further qualifications were applied.

III. Blanks

The laboratory (method) blank yielded no detectable analyte concentrations. No qualifications were applied.

IV. Laboratory Control Sample (LCS)

All percent recoveries from the LCS analyses were within established control limits. No qualifications were applied.

V. Surrogates

All surrogate recoveries were within QC limits so no qualifications were applied.

VI. Comments

Some detected concentrations were less than their RLs. These low-concentration results were qualified as estimated (flagged "J"). In addition, all detected SVOC were phthalate esters, which are common laboratory contaminants and ubiquitous environmental contaminants.

VII. Overall Assessment of Data

Overall data quality is acceptable, with no significant qualifications applied. All data are usable as qualified for their intended purposes.

TOTAL PETROLEUM HYDROCARBON ANALYSES

I. Holding Time and Chain of Custody (COC) Requirements

The samples were received by the laboratory and analyzed within the established holding times. No data were qualified.

II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

All MS/MSD results were within limits. No qualifications were applied.

III. Blanks

The laboratory (method) blanks yielded no detectable analytes. No qualifications were applied.

IV. Laboratory Control Sample (LCS)

All percent recoveries from the LCS analyses were within established control limits. No qualifications were applied.

V. Surrogates

All surrogate recoveries were within QC limits so no qualifications were applied.

VI. Comments

Some of the detected concentrations were less than their RLs. These low-concentration results were qualified as estimated (flagged "J").

VII. Overall Assessment of Data

Overall data quality is acceptable, with no qualifications applied. All data are usable as reported for their intended purposes.

METALS ANALYSES

I. Holding Time and Chain of Custody (COC) Requirements

The samples were received by the laboratory and analyzed within the established holding times of 28 days (for mercury) and 6 months (for all other metals) from sample collection to analysis. No data were qualified.

II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

In the MS/MSD analyses performed on sample SB-3, recoveries of barium could not be determined because the unspiked sample concentration was much higher than the spike. No qualifications were applied for this data gap. However, chromium recoveries were 155 and 139 percent, above the QC limits of 75 to 125 percent, while lead recoveries were 53 and 67 percent, below those limits. Since the unspiked concentrations were similar to the spike, these irregularities are probably due to heterogeneity in the distribution of chromium in the soil. Therefore the chromium and lead concentrations in the parent sample were qualified as estimated and flagged "J".

III. Blanks

No analytes were detected in the laboratory blanks. No qualifications were applied.

IV. Laboratory Control Sample (LCS)

All percent recoveries from the LCS analyses were within established control limits. No qualifications were applied.

V. Comments

Some detected concentrations were less than their RLs. These low-concentration results were qualified as estimated (flagged "J").

VI. Overall Assessment of Data

Overall data quality is acceptable, with no significant qualifications applied. All data are usable as qualified for their intended purposes.

06-Jun-2018

Kaitlyn Mitchell
Tetra Tech
415 Oak Street
Kansas City, MO 64106

Re: **Former Health Module (X902514002.019.024)** Work Order: **18051689**

Dear Kaitlyn,

ALS Environmental received 42 samples on 24-May-2018 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 150.

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: Tom Beamish

Tom Beamish
Senior Project Manager

Report of Laboratory Analysis

ALS Group, USA

Date: 06-Jun-18

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Work Order: **18051689**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
18051689-01	SB-1 (0-2)	Soil		05/22/18 14:40	05/24/18 10:30	☐
18051689-02	SB-1 (4)	Soil		05/22/18 14:40	05/24/18 10:30	☐
18051689-03	SB-1 (9)	Soil		05/22/18 14:40	05/24/18 10:30	☐
18051689-04	SB-1 (14)	Soil		05/22/18 14:40	05/24/18 10:30	☐
18051689-05	SB-2 (0-2)	Soil		05/22/18 15:35	05/24/18 10:30	☐
18051689-06	SB-2 (4)	Soil		05/22/18 15:35	05/24/18 10:30	☐
18051689-07	SB-2 (9)	Soil		05/22/18 15:35	05/24/18 10:30	☐
18051689-08	SB-2 (14)	Soil		05/22/18 15:35	05/24/18 10:30	☐
18051689-09	SB-3 (0-2)	Soil		05/22/18 16:10	05/24/18 10:30	☐
18051689-10	SB-3 (4)	Soil		05/22/18 16:10	05/24/18 10:30	☐
18051689-11	SB-3 (9)	Soil		05/22/18 16:10	05/24/18 10:30	☐
18051689-12	SB-3 (14)	Soil		05/22/18 16:10	05/24/18 10:30	☐
18051689-13	SB-4 (0-2)	Soil		05/23/18 08:45	05/24/18 10:30	☐
18051689-14	SB-4 (4)	Soil		05/23/18 08:45	05/24/18 10:30	☐
18051689-15	SB-4 (9)	Soil		05/23/18 08:45	05/24/18 10:30	☐
18051689-16	SB-4 (14)	Soil		05/23/18 08:45	05/24/18 10:30	☐
18051689-17	SB-5 (0-2)	Soil		05/23/18 09:10	05/24/18 10:30	☐
18051689-18	SB-5 (4)	Soil		05/23/18 09:10	05/24/18 10:30	☐
18051689-19	SB-5 (9)	Soil		05/23/18 09:10	05/24/18 10:30	☐
18051689-20	SB-5 (14)	Soil		05/23/18 09:10	05/24/18 10:30	☐
18051689-21	SB-6 (0-2)	Soil		05/23/18 09:30	05/24/18 10:30	☐
18051689-22	SB-6 (4)	Soil		05/23/18 09:30	05/24/18 10:30	☐
18051689-23	SB-6 (9)	Soil		05/23/18 09:30	05/24/18 10:30	☐
18051689-24	SB-6 (14)	Soil		05/23/18 09:30	05/24/18 10:30	☐
18051689-25	SB-7 (0-2)	Soil		05/23/18 10:00	05/24/18 10:30	☐
18051689-26	SB-7 (4)	Soil		05/23/18 10:00	05/24/18 10:30	☐
18051689-27	SB-7 (9)	Soil		05/23/18 10:00	05/24/18 10:30	☐
18051689-28	SB-7 (14)	Soil		05/23/18 10:00	05/24/18 10:30	☐
18051689-29	SB-8 (0-2)	Soil		05/23/18 10:30	05/24/18 10:30	☐
18051689-30	SB-8 (4)	Soil		05/23/18 10:30	05/24/18 10:30	☐
18051689-31	SB-8 (9)	Soil		05/23/18 10:30	05/24/18 10:30	☐
18051689-32	SB-8 (14)	Soil		05/23/18 10:30	05/24/18 10:30	☐
18051689-33	SB-9 (0-2)	Soil		05/23/18 11:05	05/24/18 10:30	☐
18051689-34	SB-9 (4)	Soil		05/23/18 11:05	05/24/18 10:30	☐
18051689-35	SB-9 (9)	Soil		05/23/18 11:05	05/24/18 10:30	☐
18051689-36	SB-9 (14)	Soil		05/23/18 11:05	05/24/18 10:30	☐
18051689-37	SB-10 (0-2)	Soil		05/23/18 11:30	05/24/18 10:30	☐
18051689-38	SB-10 (4)	Soil		05/23/18 11:30	05/24/18 10:30	☐
18051689-39	SB-10 (9)	Soil		05/23/18 11:30	05/24/18 10:30	☐

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Work Order: **18051689**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
18051689-40	SB-10 (14)	Soil		05/23/18 11:30	05/24/18 10:30	☐
18051689-41	RB-1	Water		05/23/18 12:25	05/24/18 10:30	☐
18051689-42	Trip Blank	Water		05/23/18	05/24/18 10:30	☐

ALS Group, USA

Date: 06-Jun-18

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
WorkOrder: **18051689**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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
J	Analyte is present at an estimated concentration between the MDL and Report Limit
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.

Acronym	Description
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

Units Reported	Description
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Work Order: 18051689

Case Narrative

Samples for the above noted Work Order were received on 05/24/18. 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.

Volatile Organics:
Batch R236831, Method VOC_8260_SLL, Sample 18051689-10C MS and -10C MSD: The MS and/or MSD recovery was above the upper control limit. The corresponding results in the parent sample may be biased high for 2-Butanone, Acetone, 2-Hexanone, and Dichlorodifluoromethane.

Batch R236831, Method VOC_8260_SLL, Sample 18051689-10C: One or more VOC surrogate recovery was below the lower control limits. The sample results may be biased low.

No other deviations or anomalies were noted.

Extractable Organics:
Batch 118977, Method SVO_8270_S, Sample 18051689-18A MS: The matrix spike recovery was outside of the control limit. However, the matrix spike duplicate recovery and the RPD between the MS and MSD were in control. No qualification is required for Diethyl phthalate.

Batch 118977, Method SVO_8270_S, Sample 18051689-02A: One or more SVOC surrogate recoveries were low due to sample matrix effects (confirmed by re-extraction).

Batch 118977, Method SVO_8270_S, Sample 18051689-34A: One or more SVOC surrogate recoveries were below the lower control limits. The SVOC sample results may be biased low.

No other deviations or anomalies were noted.

Metals:
Batch 119255, Method HG_7471_S, Sample 18051689-32AMSD: The RPD between the MS and MSD was outside the control limit. The corresponding result in the parent sample should be considered estimated for Mercury.

Batch 119100, Method ICP_6010_S, Sample 18051689-17AMSD: The RPD between the MS and MSD was outside the control limit. The corresponding result in the parent sample should be considered estimated for Chromium.

Batch 119031, Method ICP_6010_S, Sample 18051689-03A: The ICP metals reporting limits are elevated due to internal standard failure in the undiluted run.

No other deviations or anomalies were noted.

Wet Chemistry:
No deviations or anomalies were noted.

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-1 (0-2)
Collection Date: 05/22/18 02:40 PM

Work Order: 18051689
Lab ID: 18051689-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.079**		**0.0024**	**0.024**	**mg/Kg-dry**	1	06/05/18 06:47
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/30/18		Analyst: **RH**
Arsenic	**8.8**		**0.14**	**0.52**	**mg/Kg-dry**	1	06/01/18 05:11
Barium	**48**		**0.21**	**0.52**	**mg/Kg-dry**	1	06/01/18 05:11
Cadmium	U		0.050	1.0	mg/Kg-dry	1	06/01/18 05:11
Chromium	**4.2**		**0.029**	**0.52**	**mg/Kg-dry**	1	06/01/18 05:11
Lead	**18**		**0.11**	**0.52**	**mg/Kg-dry**	1	06/01/18 05:11
Selenium	U		0.29	1.0	mg/Kg-dry	1	06/01/18 05:11
Silver	U		0.065	0.52	mg/Kg-dry	1	06/01/18 05:11
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**28**		**0.025**	**0.050**	**% of sample**	1	05/30/18 20:00

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-1 (4)
Collection Date: 05/22/18 02:40 PM

Work Order: 18051689
Lab ID: 18051689-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 5/25/18		Analyst: **MEB**
DRO (C10-C28)	**7.9**		**4.0**	**6.9**	**mg/Kg-dry**	1	05/25/18 22:03
ORO (C28-C40)	**35**		**2.7**	**6.9**	**mg/Kg-dry**	1	05/25/18 22:03
Surr: 4-Terphenyl-d14	*63.1*			*34-130*	*%REC*	1	05/25/18 22:03
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035 / 5/25/18		Analyst: **MEB**
GRO (C6-C10)	U		4.2	10	mg/Kg-dry	1	05/25/18 20:35
Surr: Toluene-d8	*105*			*71-123*	*%REC*	1	05/25/18 20:35
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.11**		**0.0026**	**0.026**	**mg/Kg-dry**	1	06/05/18 06:55
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/30/18		Analyst: **RH**
Arsenic	**2.0**		**0.14**	**0.53**	**mg/Kg-dry**	1	06/01/18 05:17
Barium	**53**		**0.21**	**0.53**	**mg/Kg-dry**	1	06/01/18 05:17
Cadmium	U		0.051	1.1	mg/Kg-dry	1	06/01/18 05:17
Chromium	**3.6**		**0.030**	**0.53**	**mg/Kg-dry**	1	06/01/18 05:17
Lead	**14**		**0.11**	**0.53**	**mg/Kg-dry**	1	06/01/18 05:17
Selenium	U		0.30	1.1	mg/Kg-dry	1	06/01/18 05:17
Silver	U		0.066	0.53	mg/Kg-dry	1	06/01/18 05:17
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 5/30/18		Analyst: **EB**
1,1`-Biphenyl	U		0.0074	0.045	mg/Kg-dry	1	05/31/18 05:16
2,4,5-Trichlorophenol	U		0.013	0.045	mg/Kg-dry	1	05/31/18 05:16
2,4,6-Trichlorophenol	U		0.012	0.045	mg/Kg-dry	1	05/31/18 05:16
2,4-Dichlorophenol	U		0.0096	0.045	mg/Kg-dry	1	05/31/18 05:16
2,4-Dimethylphenol	U		0.0094	0.045	mg/Kg-dry	1	05/31/18 05:16
2,4-Dinitrophenol	U		0.025	0.045	mg/Kg-dry	1	05/31/18 05:16
2,4-Dinitrotoluene	U		0.012	0.045	mg/Kg-dry	1	05/31/18 05:16
2,6-Dinitrotoluene	U		0.0076	0.045	mg/Kg-dry	1	05/31/18 05:16
2-Chloronaphthalene	U		0.0064	0.0092	mg/Kg-dry	1	05/31/18 05:16
2-Chlorophenol	U		0.014	0.045	mg/Kg-dry	1	05/31/18 05:16
2-Methylnaphthalene	**0.016**		**0.0047**	**0.0092**	**mg/Kg-dry**	1	05/31/18 05:16
2-Methylphenol	U		0.012	0.045	mg/Kg-dry	1	05/31/18 05:16
2-Nitroaniline	U		0.010	0.045	mg/Kg-dry	1	05/31/18 05:16
2-Nitrophenol	U		0.013	0.045	mg/Kg-dry	1	05/31/18 05:16
3&4-Methylphenol	U		0.0092	0.045	mg/Kg-dry	1	05/31/18 05:16
3,3´-Dichlorobenzidine	U		0.0068	0.23	mg/Kg-dry	1	05/31/18 05:16
3-Nitroaniline	U		0.010	0.045	mg/Kg-dry	1	05/31/18 05:16
4,6-Dinitro-2-methylphenol	U		0.011	0.045	mg/Kg-dry	1	05/31/18 05:16
4-Bromophenyl phenyl ether	U		0.012	0.045	mg/Kg-dry	1	05/31/18 05:16

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-1 (4)
Collection Date: 05/22/18 02:40 PM

Work Order: 18051689
Lab ID: 18051689-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloro-3-methylphenol	U		0.013	0.045	mg/Kg-dry	1	05/31/18 05:16
4-Chloroaniline	U		0.0072	0.092	mg/Kg-dry	1	05/31/18 05:16
4-Chlorophenyl phenyl ether	U		0.013	0.045	mg/Kg-dry	1	05/31/18 05:16
4-Nitroaniline	U		0.071	0.23	mg/Kg-dry	1	05/31/18 05:16
4-Nitrophenol	U		0.041	0.045	mg/Kg-dry	1	05/31/18 05:16
Acenaphthene	U		0.0066	0.0092	mg/Kg-dry	1	05/31/18 05:16
Acenaphthylene	U		0.0079	0.0092	mg/Kg-dry	1	05/31/18 05:16
Acetophenone	U		0.0072	0.045	mg/Kg-dry	1	05/31/18 05:16
Anthracene	U		0.0065	0.0092	mg/Kg-dry	1	05/31/18 05:16
Atrazine	U		0.0072	0.045	mg/Kg-dry	1	05/31/18 05:16
Benzaldehyde	U		0.070	0.092	mg/Kg-dry	1	05/31/18 05:16
Benzo(a)anthracene	U		0.0079	0.0092	mg/Kg-dry	1	05/31/18 05:16
Benzo(a)pyrene	U		0.0056	0.0092	mg/Kg-dry	1	05/31/18 05:16
Benzo(b)fluoranthene	U		0.0068	0.0092	mg/Kg-dry	1	05/31/18 05:16
Benzo(g,h,i)perylene	U		0.0070	0.0092	mg/Kg-dry	1	05/31/18 05:16
Benzo(k)fluoranthene	U		0.0069	0.0092	mg/Kg-dry	1	05/31/18 05:16
Bis(2-chloroethoxy)methane	U		0.0044	0.045	mg/Kg-dry	1	05/31/18 05:16
Bis(2-chloroethyl)ether	U		0.013	0.045	mg/Kg-dry	1	05/31/18 05:16
Bis(2-chloroisopropyl)ether	U		0.011	0.045	mg/Kg-dry	1	05/31/18 05:16
Bis(2-ethylhexyl)phthalate	**0.22**		**0.0079**	**0.045**	**mg/Kg-dry**	1	05/31/18 05:16
Butyl benzyl phthalate	U		0.0077	0.045	mg/Kg-dry	1	05/31/18 05:16
Caprolactam	U		0.016	0.045	mg/Kg-dry	1	05/31/18 05:16
Carbazole	U		0.0049	0.045	mg/Kg-dry	1	05/31/18 05:16
Chrysene	U		0.0074	0.0092	mg/Kg-dry	1	05/31/18 05:16
Dibenzo(a,h)anthracene	U		0.0049	0.0092	mg/Kg-dry	1	05/31/18 05:16
Dibenzofuran	U		0.0067	0.045	mg/Kg-dry	1	05/31/18 05:16
Diethyl phthalate	U		0.0070	0.045	mg/Kg-dry	1	05/31/18 05:16
Dimethyl phthalate	U		0.0089	0.045	mg/Kg-dry	1	05/31/18 05:16
Di-n-butyl phthalate	U		0.0084	0.045	mg/Kg-dry	1	05/31/18 05:16
Di-n-octyl phthalate	U		0.0088	0.045	mg/Kg-dry	1	05/31/18 05:16
Fluoranthene	U		0.0044	0.0092	mg/Kg-dry	1	05/31/18 05:16
Fluorene	U		0.0066	0.0092	mg/Kg-dry	1	05/31/18 05:16
Hexachlorobenzene	U		0.013	0.045	mg/Kg-dry	1	05/31/18 05:16
Hexachlorobutadiene	U		0.025	0.045	mg/Kg-dry	1	05/31/18 05:16
Hexachlorocyclopentadiene	U		0.016	0.045	mg/Kg-dry	1	05/31/18 05:16
Hexachloroethane	U		0.019	0.045	mg/Kg-dry	1	05/31/18 05:16
Indeno(1,2,3-cd)pyrene	U		0.0064	0.0092	mg/Kg-dry	1	05/31/18 05:16
Isophorone	U		0.0089	0.23	mg/Kg-dry	1	05/31/18 05:16
Naphthalene	**0.0092**	J	**0.0059**	**0.0092**	**mg/Kg-dry**	1	05/31/18 05:16
Nitrobenzene	U		0.015	0.23	mg/Kg-dry	1	05/31/18 05:16

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-1 (4)
Collection Date: 05/22/18 02:40 PM

Work Order: 18051689
Lab ID: 18051689-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		0.0076	0.045	mg/Kg-dry	1	05/31/18 05:16
N-Nitrosodiphenylamine	U		0.0044	0.045	mg/Kg-dry	1	05/31/18 05:16
Pentachlorophenol	U		0.017	0.045	mg/Kg-dry	1	05/31/18 05:16
Phenanthrene	U		0.0043	0.0092	mg/Kg-dry	1	05/31/18 05:16
Phenol	U		0.011	0.045	mg/Kg-dry	1	05/31/18 05:16
Pyrene	U		0.0017	0.0092	mg/Kg-dry	1	05/31/18 05:16
Surr: 2,4,6-Tribromophenol	*36.0*	S		*38-92*	*%REC*	1	05/31/18 05:16
Surr: 2-Fluorobiphenyl	*38.6*	S		*44-107*	*%REC*	1	05/31/18 05:16
Surr: 2-Fluorophenol	*42.1*			*37-109*	*%REC*	1	05/31/18 05:16
Surr: 4-Terphenyl-d14	*40.6*	S		*52-123*	*%REC*	1	05/31/18 05:16
Surr: Nitrobenzene-d5	*30.0*	S		*41-94*	*%REC*	1	05/31/18 05:16
Surr: Phenol-d6	*40.7*			*28-111*	*%REC*	1	05/31/18 05:16
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **EMR**
1,1,1-Trichloroethane	U		0.0010	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
1,1,2,2-Tetrachloroethane	U		0.00036	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
1,1,2-Trichloroethane	U		0.00052	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
1,1,2-Trichlorotrifluoroethane	U		0.0015	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
1,1-Dichloroethane	U		0.0027	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
1,1-Dichloroethene	U		0.0013	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
1,2,4-Trichlorobenzene	U		0.00097	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
1,2-Dibromo-3-chloropropane	U		0.0018	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
1,2-Dibromoethane	U		0.00048	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
1,2-Dichlorobenzene	U		0.00083	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
1,2-Dichloroethane	U		0.00048	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
1,2-Dichloropropane	U		0.00058	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
1,3-Dichlorobenzene	U		0.00069	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
1,4-Dichlorobenzene	U		0.00048	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
2-Butanone	U		0.0025	0.013	mg/Kg-dry	0.962	05/30/18 11:51
2-Hexanone	U		0.0013	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
4-Methyl-2-pentanone	U		0.0011	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Acetone	**0.0055**	J	**0.0028**	**0.013**	**mg/Kg-dry**	0.962	05/30/18 11:51
Benzene	U		0.00069	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Bromodichloromethane	U		0.00042	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Bromoform	U		0.00041	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Bromomethane	U		0.00095	0.013	mg/Kg-dry	0.962	05/30/18 11:51
Carbon disulfide	U		0.00074	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Carbon tetrachloride	U		0.0011	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Chlorobenzene	U		0.00042	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Chloroethane	U		0.00083	0.0066	mg/Kg-dry	0.962	05/30/18 11:51

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-1 (4)
Collection Date: 05/22/18 02:40 PM

Work Order: 18051689
Lab ID: 18051689-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.00040	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Chloromethane	U		0.00061	0.013	mg/Kg-dry	0.962	05/30/18 11:51
cis-1,2-Dichloroethene	U		0.00064	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
cis-1,3-Dichloropropene	U		0.00034	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Cyclohexane	U		0.0040	0.013	mg/Kg-dry	0.962	05/30/18 11:51
Dibromochloromethane	U		0.00062	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Dichlorodifluoromethane	U		0.0014	0.013	mg/Kg-dry	0.962	05/30/18 11:51
Ethylbenzene	U		0.00080	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Isopropylbenzene	U		0.00085	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
m,p-Xylene	U		0.0016	0.0033	mg/Kg-dry	0.962	05/30/18 11:51
Methyl acetate	U		0.0016	0.013	mg/Kg-dry	0.962	05/30/18 11:51
Methyl tert-butyl ether	U		0.00030	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Methylcyclohexane	U		0.0020	0.013	mg/Kg-dry	0.962	05/30/18 11:51
Methylene chloride	U		0.0011	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
o-Xylene	U		0.00062	0.0033	mg/Kg-dry	0.962	05/30/18 11:51
Styrene	U		0.00053	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Tetrachloroethene	U		0.0012	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Toluene	U		0.00074	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
trans-1,2-Dichloroethene	U		0.00053	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
trans-1,3-Dichloropropene	U		0.00038	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Trichloroethene	U		0.00095	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Trichlorofluoromethane	U		0.00094	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Vinyl chloride	U		0.00093	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Xylenes, Total	U		0.0023	0.0066	mg/Kg-dry	0.962	05/30/18 11:51
Surr: 1,2-Dichloroethane-d4	*104*			*83-132*	*%REC*	0.962	05/30/18 11:51
Surr: 4-Bromofluorobenzene	*92.4*			*83-111*	*%REC*	0.962	05/30/18 11:51
Surr: Dibromofluoromethane	*69.4*	S		*77-125*	*%REC*	0.962	05/30/18 11:51
Surr: Toluene-d8	*89.3*			*86-108*	*%REC*	0.962	05/30/18 11:51
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**27**		**0.025**	**0.050**	**% of sample**	1	05/30/18 20:00

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-1 (9)
Collection Date: 05/22/18 02:40 PM

Work Order: 18051689
Lab ID: 18051689-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.093**		**0.0025**	**0.025**	**mg/Kg-dry**	1	06/05/18 06:57
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/30/18		Analyst: **RH**
Arsenic	**50**		**1.3**	**5.2**	**mg/Kg-dry**	10	06/01/18 17:50
Barium	**120**		**0.21**	**0.52**	**mg/Kg-dry**	1	06/01/18 05:23
Cadmium	**0.30**	J	**0.050**	**1.0**	**mg/Kg-dry**	1	06/01/18 05:23
Chromium	**3.0**	J	**0.29**	**5.2**	**mg/Kg-dry**	10	06/01/18 17:50
Lead	**74**		**1.1**	**5.2**	**mg/Kg-dry**	10	06/01/18 17:50
Selenium	**3.1**	J	**2.9**	**10**	**mg/Kg-dry**	10	06/01/18 17:50
Silver	U		0.064	0.52	mg/Kg-dry	1	06/01/18 05:23
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**29**		**0.025**	**0.050**	**% of sample**	1	05/30/18 20:00

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-1 (14)
Collection Date: 05/22/18 02:40 PM

Work Order: 18051689
Lab ID: 18051689-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.034**		**0.0026**	**0.026**	**mg/Kg-dry**	1	06/05/18 07:00
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/30/18		Analyst: **RH**
Arsenic	**18**		**0.15**	**0.57**	**mg/Kg-dry**	1	06/01/18 05:29
Barium	**220**		**0.23**	**0.57**	**mg/Kg-dry**	1	06/01/18 05:29
Cadmium	U		0.055	1.1	mg/Kg-dry	1	06/01/18 05:29
Chromium	U		0.032	0.57	mg/Kg-dry	1	06/01/18 05:29
Lead	**85**		**0.12**	**0.57**	**mg/Kg-dry**	1	06/01/18 05:29
Selenium	**2.0**		**0.32**	**1.1**	**mg/Kg-dry**	1	06/01/18 05:29
Silver	U		0.071	0.57	mg/Kg-dry	1	06/01/18 05:29
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**33**		**0.025**	**0.050**	**% of sample**	1	05/30/18 20:00

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-2 (0-2)
Collection Date: 05/22/18 03:35 PM

Work Order: 18051689
Lab ID: 18051689-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.043**		**0.0024**	**0.024**	**mg/Kg-dry**	1	06/05/18 07:02
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/30/18		Analyst: **RH**
Arsenic	**9.2**		**0.12**	**0.47**	**mg/Kg-dry**	1	06/01/18 05:35
Barium	**120**		**0.19**	**0.47**	**mg/Kg-dry**	1	06/01/18 05:35
Cadmium	**0.68**	J	**0.045**	**0.94**	**mg/Kg-dry**	1	06/01/18 05:35
Chromium	**13**		**0.026**	**0.47**	**mg/Kg-dry**	1	06/01/18 05:35
Lead	**6.3**		**0.10**	**0.47**	**mg/Kg-dry**	1	06/01/18 05:35
Selenium	**0.86**	J	**0.26**	**0.94**	**mg/Kg-dry**	1	06/01/18 05:35
Silver	U		0.059	0.47	mg/Kg-dry	1	06/01/18 05:35
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**21**		**0.025**	**0.050**	**% of sample**	1	05/30/18 20:00

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-2 (4)
Collection Date: 05/22/18 03:35 PM

Work Order: 18051689
Lab ID: 18051689-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 5/25/18		Analyst: **MEB**
DRO (C10-C28)	**4.8**	J	**4.0**	**7.0**	**mg/Kg-dry**	1	05/25/18 22:32
ORO (C28-C40)	**7.1**		**2.7**	**7.0**	**mg/Kg-dry**	1	05/25/18 22:32
Surr: 4-Terphenyl-d14	*72.6*			*34-130*	*%REC*	1	05/25/18 22:32
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035 / 5/25/18		Analyst: **MEB**
GRO (C6-C10)	U		3.9	9.3	mg/Kg-dry	1	05/25/18 21:05
Surr: Toluene-d8	*105*			*71-123*	*%REC*	1	05/25/18 21:05
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.11**		**0.0026**	**0.026**	**mg/Kg-dry**	1	06/05/18 07:05
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**4.0**		**0.14**	**0.54**	**mg/Kg-dry**	1	06/01/18 20:34
Barium	**820**		**0.22**	**0.54**	**mg/Kg-dry**	1	06/01/18 20:34
Cadmium	**0.97**	J	**0.052**	**1.1**	**mg/Kg-dry**	1	06/01/18 20:34
Chromium	**4.1**		**0.031**	**0.54**	**mg/Kg-dry**	1	06/01/18 20:34
Lead	**16**		**0.12**	**0.54**	**mg/Kg-dry**	1	06/01/18 20:34
Selenium	U		0.31	1.1	mg/Kg-dry	1	06/01/18 20:34
Silver	U		0.068	0.54	mg/Kg-dry	1	06/01/18 20:34
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 5/30/18		Analyst: **RS**
1,1`-Biphenyl	**0.036**	J	**0.0075**	**0.046**	**mg/Kg-dry**	1	05/31/18 19:48
2,4,5-Trichlorophenol	U		0.013	0.046	mg/Kg-dry	1	05/31/18 19:48
2,4,6-Trichlorophenol	U		0.012	0.046	mg/Kg-dry	1	05/31/18 19:48
2,4-Dichlorophenol	U		0.0098	0.046	mg/Kg-dry	1	05/31/18 19:48
2,4-Dimethylphenol	U		0.0095	0.046	mg/Kg-dry	1	05/31/18 19:48
2,4-Dinitrophenol	U		0.025	0.046	mg/Kg-dry	1	05/31/18 19:48
2,4-Dinitrotoluene	U		0.012	0.046	mg/Kg-dry	1	05/31/18 19:48
2,6-Dinitrotoluene	U		0.0077	0.046	mg/Kg-dry	1	05/31/18 19:48
2-Chloronaphthalene	U		0.0065	0.0093	mg/Kg-dry	1	05/31/18 19:48
2-Chlorophenol	U		0.015	0.046	mg/Kg-dry	1	05/31/18 19:48
2-Methylnaphthalene	**0.88**		**0.0047**	**0.0093**	**mg/Kg-dry**	1	05/31/18 19:48
2-Methylphenol	U		0.013	0.046	mg/Kg-dry	1	05/31/18 19:48
2-Nitroaniline	U		0.011	0.046	mg/Kg-dry	1	05/31/18 19:48
2-Nitrophenol	U		0.013	0.046	mg/Kg-dry	1	05/31/18 19:48
3&4-Methylphenol	U		0.0093	0.046	mg/Kg-dry	1	05/31/18 19:48
3,3´-Dichlorobenzidine	U		0.0069	0.23	mg/Kg-dry	1	05/31/18 19:48
3-Nitroaniline	U		0.011	0.046	mg/Kg-dry	1	05/31/18 19:48
4,6-Dinitro-2-methylphenol	U		0.012	0.046	mg/Kg-dry	1	05/31/18 19:48
4-Bromophenyl phenyl ether	U		0.012	0.046	mg/Kg-dry	1	05/31/18 19:48

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-2 (4)
Collection Date: 05/22/18 03:35 PM

Work Order: 18051689
Lab ID: 18051689-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloro-3-methylphenol	U		0.013	0.046	mg/Kg-dry	1	05/31/18 19:48
4-Chloroaniline	U		0.0074	0.093	mg/Kg-dry	1	05/31/18 19:48
4-Chlorophenyl phenyl ether	U		0.013	0.046	mg/Kg-dry	1	05/31/18 19:48
4-Nitroaniline	U		0.072	0.23	mg/Kg-dry	1	05/31/18 19:48
4-Nitrophenol	U		0.042	0.046	mg/Kg-dry	1	05/31/18 19:48
Acenaphthene	U		0.0067	0.0093	mg/Kg-dry	1	05/31/18 19:48
Acenaphthylene	U		0.0081	0.0093	mg/Kg-dry	1	05/31/18 19:48
Acetophenone	U		0.0073	0.046	mg/Kg-dry	1	05/31/18 19:48
Anthracene	U		0.0066	0.0093	mg/Kg-dry	1	05/31/18 19:48
Atrazine	U		0.0073	0.046	mg/Kg-dry	1	05/31/18 19:48
Benzaldehyde	U		0.071	0.093	mg/Kg-dry	1	05/31/18 19:48
Benzo(a)anthracene	U		0.0080	0.0093	mg/Kg-dry	1	05/31/18 19:48
Benzo(a)pyrene	U		0.0057	0.0093	mg/Kg-dry	1	05/31/18 19:48
Benzo(b)fluoranthene	U		0.0069	0.0093	mg/Kg-dry	1	05/31/18 19:48
Benzo(g,h,i)perylene	U		0.0071	0.0093	mg/Kg-dry	1	05/31/18 19:48
Benzo(k)fluoranthene	U		0.0070	0.0093	mg/Kg-dry	1	05/31/18 19:48
Bis(2-chloroethoxy)methane	U		0.0045	0.046	mg/Kg-dry	1	05/31/18 19:48
Bis(2-chloroethyl)ether	U		0.013	0.046	mg/Kg-dry	1	05/31/18 19:48
Bis(2-chloroisopropyl)ether	U		0.011	0.046	mg/Kg-dry	1	05/31/18 19:48
Bis(2-ethylhexyl)phthalate	U		0.0081	0.046	mg/Kg-dry	1	05/31/18 19:48
Butyl benzyl phthalate	**0.10**		**0.0079**	**0.046**	**mg/Kg-dry**	1	05/31/18 19:48
Caprolactam	U		0.016	0.046	mg/Kg-dry	1	05/31/18 19:48
Carbazole	U		0.0050	0.046	mg/Kg-dry	1	05/31/18 19:48
Chrysene	U		0.0075	0.0093	mg/Kg-dry	1	05/31/18 19:48
Dibenzo(a,h)anthracene	U		0.0050	0.0093	mg/Kg-dry	1	05/31/18 19:48
Dibenzofuran	U		0.0068	0.046	mg/Kg-dry	1	05/31/18 19:48
Diethyl phthalate	U		0.0071	0.046	mg/Kg-dry	1	05/31/18 19:48
Dimethyl phthalate	U		0.0091	0.046	mg/Kg-dry	1	05/31/18 19:48
Di-n-butyl phthalate	U		0.0085	0.046	mg/Kg-dry	1	05/31/18 19:48
Di-n-octyl phthalate	U		0.0089	0.046	mg/Kg-dry	1	05/31/18 19:48
Fluoranthene	U		0.0045	0.0093	mg/Kg-dry	1	05/31/18 19:48
Fluorene	**0.058**		**0.0068**	**0.0093**	**mg/Kg-dry**	1	05/31/18 19:48
Hexachlorobenzene	U		0.014	0.046	mg/Kg-dry	1	05/31/18 19:48
Hexachlorobutadiene	U		0.025	0.046	mg/Kg-dry	1	05/31/18 19:48
Hexachlorocyclopentadiene	U		0.016	0.046	mg/Kg-dry	1	05/31/18 19:48
Hexachloroethane	U		0.019	0.046	mg/Kg-dry	1	05/31/18 19:48
Indeno(1,2,3-cd)pyrene	U		0.0065	0.0093	mg/Kg-dry	1	05/31/18 19:48
Isophorone	U		0.0091	0.23	mg/Kg-dry	1	05/31/18 19:48
Naphthalene	**0.17**		**0.0059**	**0.0093**	**mg/Kg-dry**	1	05/31/18 19:48
Nitrobenzene	U		0.016	0.23	mg/Kg-dry	1	05/31/18 19:48

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-2 (4)
Collection Date: 05/22/18 03:35 PM

Work Order: 18051689
Lab ID: 18051689-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		0.0077	0.046	mg/Kg-dry	1	05/31/18 19:48
N-Nitrosodiphenylamine	U		0.0045	0.046	mg/Kg-dry	1	05/31/18 19:48
Pentachlorophenol	U		0.017	0.046	mg/Kg-dry	1	05/31/18 19:48
Phenanthrene	U		0.0043	0.0093	mg/Kg-dry	1	05/31/18 19:48
Phenol	U		0.012	0.046	mg/Kg-dry	1	05/31/18 19:48
Pyrene	U		0.0017	0.0093	mg/Kg-dry	1	05/31/18 19:48
Surr: 2,4,6-Tribromophenol	*48.0*			*38-92*	*%REC*	1	05/31/18 19:48
Surr: 2-Fluorobiphenyl	*51.8*			*44-107*	*%REC*	1	05/31/18 19:48
Surr: 2-Fluorophenol	*57.9*			*37-109*	*%REC*	1	05/31/18 19:48
Surr: 4-Terphenyl-d14	*56.2*			*52-123*	*%REC*	1	05/31/18 19:48
Surr: Nitrobenzene-d5	*54.2*			*41-94*	*%REC*	1	05/31/18 19:48
Surr: Phenol-d6	*49.9*			*28-111*	*%REC*	1	05/31/18 19:48
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **EMR**
1,1,1-Trichloroethane	U		0.0011	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
1,1,2,2-Tetrachloroethane	U		0.00037	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
1,1,2-Trichloroethane	U		0.00053	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
1,1,2-Trichlorotrifluoroethane	U		0.0015	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
1,1-Dichloroethane	U		0.0028	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
1,1-Dichloroethene	U		0.0013	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
1,2,4-Trichlorobenzene	U		0.0010	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
1,2-Dibromo-3-chloropropane	U		0.0019	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
1,2-Dibromoethane	U		0.00049	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
1,2-Dichlorobenzene	U		0.00086	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
1,2-Dichloroethane	U		0.00049	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
1,2-Dichloropropane	U		0.00060	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
1,3-Dichlorobenzene	U		0.00071	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
1,4-Dichlorobenzene	U		0.00049	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
2-Butanone	U		0.0026	0.014	mg/Kg-dry	0.96	05/30/18 12:08
2-Hexanone	U		0.0013	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
4-Methyl-2-pentanone	U		0.0011	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Acetone	**0.0050**	J	**0.0029**	**0.014**	**mg/Kg-dry**	0.96	05/30/18 12:08
Benzene	U		0.00071	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Bromodichloromethane	U		0.00044	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Bromoform	U		0.00042	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Bromomethane	U		0.00098	0.014	mg/Kg-dry	0.96	05/30/18 12:08
Carbon disulfide	U		0.00076	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Carbon tetrachloride	U		0.0011	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Chlorobenzene	U		0.00044	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Chloroethane	U		0.00086	0.0068	mg/Kg-dry	0.96	05/30/18 12:08

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-2 (4)
Collection Date: 05/22/18 03:35 PM

Work Order: 18051689
Lab ID: 18051689-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.00041	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Chloromethane	U		0.00063	0.014	mg/Kg-dry	0.96	05/30/18 12:08
cis-1,2-Dichloroethene	U		0.00065	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
cis-1,3-Dichloropropene	U		0.00035	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Cyclohexane	U		0.0042	0.014	mg/Kg-dry	0.96	05/30/18 12:08
Dibromochloromethane	U		0.00064	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Dichlorodifluoromethane	U		0.0015	0.014	mg/Kg-dry	0.96	05/30/18 12:08
Ethylbenzene	U		0.00082	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Isopropylbenzene	U		0.00087	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
m,p-Xylene	U		0.0017	0.0034	mg/Kg-dry	0.96	05/30/18 12:08
Methyl acetate	U		0.0017	0.014	mg/Kg-dry	0.96	05/30/18 12:08
Methyl tert-butyl ether	U		0.00031	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Methylcyclohexane	U		0.0020	0.014	mg/Kg-dry	0.96	05/30/18 12:08
Methylene chloride	U		0.0012	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
o-Xylene	U		0.00064	0.0034	mg/Kg-dry	0.96	05/30/18 12:08
Styrene	U		0.00055	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Tetrachloroethene	U		0.0012	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Toluene	U		0.00076	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
trans-1,2-Dichloroethene	U		0.00055	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
trans-1,3-Dichloropropene	U		0.00040	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Trichloroethene	U		0.00098	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Trichlorofluoromethane	U		0.00097	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Vinyl chloride	U		0.00095	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Xylenes, Total	U		0.0023	0.0068	mg/Kg-dry	0.96	05/30/18 12:08
Surr: 1,2-Dichloroethane-d4	*108*			*83-132*	*%REC*	0.96	05/30/18 12:08
Surr: 4-Bromofluorobenzene	*96.2*			*83-111*	*%REC*	0.96	05/30/18 12:08
Surr: Dibromofluoromethane	*70.8*	S		*77-125*	*%REC*	0.96	05/30/18 12:08
Surr: Toluene-d8	*90.6*			*86-108*	*%REC*	0.96	05/30/18 12:08
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**30**		**0.025**	**0.050**	**% of sample**	1	05/30/18 20:00

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-2 (9)
Collection Date: 05/22/18 03:35 PM

Work Order: 18051689
Lab ID: 18051689-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.099**		**0.0021**	**0.021**	**mg/Kg-dry**	1	06/05/18 07:15
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**13**		**0.14**	**0.53**	**mg/Kg-dry**	1	06/01/18 20:40
Barium	**150**		**0.21**	**0.53**	**mg/Kg-dry**	1	06/01/18 20:40
Cadmium	U		0.051	1.1	mg/Kg-dry	1	06/01/18 20:40
Chromium	**3.6**		**0.030**	**0.53**	**mg/Kg-dry**	1	06/01/18 20:40
Lead	**21**		**0.11**	**0.53**	**mg/Kg-dry**	1	06/01/18 20:40
Selenium	U		0.30	1.1	mg/Kg-dry	1	06/01/18 20:40
Silver	U		0.066	0.53	mg/Kg-dry	1	06/01/18 20:40
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**30**		**0.025**	**0.050**	**% of sample**	1	05/31/18 13:00

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-2 (14)
Collection Date: 05/22/18 03:35 PM

Work Order: 18051689
Lab ID: 18051689-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.080**		**0.0025**	**0.025**	**mg/Kg-dry**	1	06/05/18 07:18
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**10**		**0.16**	**0.61**	**mg/Kg-dry**	1	06/01/18 21:04
Barium	**120**		**0.24**	**0.61**	**mg/Kg-dry**	1	06/01/18 21:04
Cadmium	U		0.058	1.2	mg/Kg-dry	1	06/01/18 21:04
Chromium	**1.5**		**0.034**	**0.61**	**mg/Kg-dry**	1	06/01/18 21:04
Lead	**36**		**0.13**	**0.61**	**mg/Kg-dry**	1	06/01/18 21:04
Selenium	**1.6**		**0.34**	**1.2**	**mg/Kg-dry**	1	06/01/18 21:04
Silver	U		0.075	0.61	mg/Kg-dry	1	06/01/18 21:04
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**32**		**0.025**	**0.050**	**% of sample**	1	05/31/18 13:00

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-3 (0-2)
Collection Date: 05/22/18 04:10 PM

Work Order: 18051689
Lab ID: 18051689-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.024**		**0.0021**	**0.021**	**mg/Kg-dry**	1	06/05/18 07:20
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**6.7**		**1.3**	**4.8**	**mg/Kg-dry**	10	06/04/18 12:00
Barium	**150**		**0.19**	**0.48**	**mg/Kg-dry**	1	06/01/18 21:10
Cadmium	**0.17**	J	**0.046**	**0.97**	**mg/Kg-dry**	1	06/01/18 21:10
Chromium	**21**		**0.27**	**4.8**	**mg/Kg-dry**	10	06/04/18 12:00
Lead	**7.7**		**1.0**	**4.8**	**mg/Kg-dry**	10	06/04/18 12:00
Selenium	U		2.7	9.7	mg/Kg-dry	10	06/04/18 12:00
Silver	U		0.060	0.48	mg/Kg-dry	1	06/01/18 21:10
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**17**		**0.025**	**0.050**	**% of sample**	1	05/31/18 13:00

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-3 (4)
Collection Date: 05/22/18 04:10 PM

Work Order: 18051689
Lab ID: 18051689-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 5/25/18		Analyst: **MEB**
DRO (C10-C28)	**4.4**	J	**3.6**	**6.2**	**mg/Kg-dry**	1	05/25/18 23:01
ORO (C28-C40)	**9.8**		**2.4**	**6.2**	**mg/Kg-dry**	1	05/25/18 23:01
Surr: 4-Terphenyl-d14	*79.6*			*34-130*	*%REC*	1	05/25/18 23:01
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035 / 5/25/18		Analyst: **MEB**
GRO (C6-C10)	U		3.1	7.3	mg/Kg-dry	1	05/25/18 21:34
Surr: Toluene-d8	*104*			*71-123*	*%REC*	1	05/25/18 21:34
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.045**		**0.0023**	**0.023**	**mg/Kg-dry**	1	06/05/18 07:23
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**16**		**0.11**	**0.43**	**mg/Kg-dry**	1	06/01/18 21:16
Barium	**46**		**0.17**	**0.43**	**mg/Kg-dry**	1	06/01/18 21:16
Cadmium	**0.37**	J	**0.041**	**0.85**	**mg/Kg-dry**	1	06/01/18 21:16
Chromium	**12**		**0.024**	**0.43**	**mg/Kg-dry**	1	06/01/18 21:16
Lead	**5.7**		**0.090**	**0.43**	**mg/Kg-dry**	1	06/01/18 21:16
Selenium	**0.29**	J	**0.24**	**0.85**	**mg/Kg-dry**	1	06/01/18 21:16
Silver	U		0.053	0.43	mg/Kg-dry	1	06/01/18 21:16
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 5/30/18		Analyst: **EB**
1,1`-Biphenyl	U		0.0067	0.041	mg/Kg-dry	1	05/30/18 18:48
2,4,5-Trichlorophenol	U		0.011	0.041	mg/Kg-dry	1	05/30/18 18:48
2,4,6-Trichlorophenol	U		0.011	0.041	mg/Kg-dry	1	05/30/18 18:48
2,4-Dichlorophenol	U		0.0086	0.041	mg/Kg-dry	1	05/30/18 18:48
2,4-Dimethylphenol	U		0.0084	0.041	mg/Kg-dry	1	05/30/18 18:48
2,4-Dinitrophenol	U		0.022	0.041	mg/Kg-dry	1	05/30/18 18:48
2,4-Dinitrotoluene	U		0.011	0.041	mg/Kg-dry	1	05/30/18 18:48
2,6-Dinitrotoluene	U		0.0068	0.041	mg/Kg-dry	1	05/30/18 18:48
2-Chloronaphthalene	U		0.0057	0.0082	mg/Kg-dry	1	05/30/18 18:48
2-Chlorophenol	U		0.013	0.041	mg/Kg-dry	1	05/30/18 18:48
2-Methylnaphthalene	U		0.0042	0.0082	mg/Kg-dry	1	05/30/18 18:48
2-Methylphenol	U		0.011	0.041	mg/Kg-dry	1	05/30/18 18:48
2-Nitroaniline	U		0.0094	0.041	mg/Kg-dry	1	05/30/18 18:48
2-Nitrophenol	U		0.012	0.041	mg/Kg-dry	1	05/30/18 18:48
3&4-Methylphenol	U		0.0082	0.041	mg/Kg-dry	1	05/30/18 18:48
3,3´-Dichlorobenzidine	U		0.0061	0.21	mg/Kg-dry	1	05/30/18 18:48
3-Nitroaniline	U		0.0094	0.041	mg/Kg-dry	1	05/30/18 18:48
4,6-Dinitro-2-methylphenol	U		0.010	0.041	mg/Kg-dry	1	05/30/18 18:48
4-Bromophenyl phenyl ether	U		0.011	0.041	mg/Kg-dry	1	05/30/18 18:48

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-3 (4)
Collection Date: 05/22/18 04:10 PM

Work Order: 18051689
Lab ID: 18051689-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloro-3-methylphenol	U		0.012	0.041	mg/Kg-dry	1	05/30/18 18:48
4-Chloroaniline	U		0.0065	0.082	mg/Kg-dry	1	05/30/18 18:48
4-Chlorophenyl phenyl ether	U		0.011	0.041	mg/Kg-dry	1	05/30/18 18:48
4-Nitroaniline	U		0.064	0.21	mg/Kg-dry	1	05/30/18 18:48
4-Nitrophenol	U		0.037	0.041	mg/Kg-dry	1	05/30/18 18:48
Acenaphthene	U		0.0059	0.0082	mg/Kg-dry	1	05/30/18 18:48
Acenaphthylene	U		0.0071	0.0082	mg/Kg-dry	1	05/30/18 18:48
Acetophenone	U		0.0064	0.041	mg/Kg-dry	1	05/30/18 18:48
Anthracene	U		0.0058	0.0082	mg/Kg-dry	1	05/30/18 18:48
Atrazine	U		0.0065	0.041	mg/Kg-dry	1	05/30/18 18:48
Benzaldehyde	U		0.063	0.082	mg/Kg-dry	1	05/30/18 18:48
Benzo(a)anthracene	U		0.0071	0.0082	mg/Kg-dry	1	05/30/18 18:48
Benzo(a)pyrene	U		0.0050	0.0082	mg/Kg-dry	1	05/30/18 18:48
Benzo(b)fluoranthene	U		0.0061	0.0082	mg/Kg-dry	1	05/30/18 18:48
Benzo(g,h,i)perylene	U		0.0063	0.0082	mg/Kg-dry	1	05/30/18 18:48
Benzo(k)fluoranthene	U		0.0062	0.0082	mg/Kg-dry	1	05/30/18 18:48
Bis(2-chloroethoxy)methane	U		0.0039	0.041	mg/Kg-dry	1	05/30/18 18:48
Bis(2-chloroethyl)ether	U		0.012	0.041	mg/Kg-dry	1	05/30/18 18:48
Bis(2-chloroisopropyl)ether	U		0.0096	0.041	mg/Kg-dry	1	05/30/18 18:48
Bis(2-ethylhexyl)phthalate	**0.053**		**0.0071**	**0.041**	**mg/Kg-dry**	1	05/30/18 18:48
Butyl benzyl phthalate	**0.040**	J	**0.0069**	**0.041**	**mg/Kg-dry**	1	05/30/18 18:48
Caprolactam	U		0.014	0.041	mg/Kg-dry	1	05/30/18 18:48
Carbazole	U		0.0044	0.041	mg/Kg-dry	1	05/30/18 18:48
Chrysene	U		0.0066	0.0082	mg/Kg-dry	1	05/30/18 18:48
Dibenzo(a,h)anthracene	U		0.0044	0.0082	mg/Kg-dry	1	05/30/18 18:48
Dibenzofuran	U		0.0060	0.041	mg/Kg-dry	1	05/30/18 18:48
Diethyl phthalate	U		0.0063	0.041	mg/Kg-dry	1	05/30/18 18:48
Dimethyl phthalate	U		0.0080	0.041	mg/Kg-dry	1	05/30/18 18:48
Di-n-butyl phthalate	U		0.0075	0.041	mg/Kg-dry	1	05/30/18 18:48
Di-n-octyl phthalate	U		0.0079	0.041	mg/Kg-dry	1	05/30/18 18:48
Fluoranthene	U		0.0039	0.0082	mg/Kg-dry	1	05/30/18 18:48
Fluorene	U		0.0060	0.0082	mg/Kg-dry	1	05/30/18 18:48
Hexachlorobenzene	U		0.012	0.041	mg/Kg-dry	1	05/30/18 18:48
Hexachlorobutadiene	U		0.022	0.041	mg/Kg-dry	1	05/30/18 18:48
Hexachlorocyclopentadiene	U		0.014	0.041	mg/Kg-dry	1	05/30/18 18:48
Hexachloroethane	U		0.017	0.041	mg/Kg-dry	1	05/30/18 18:48
Indeno(1,2,3-cd)pyrene	U		0.0057	0.0082	mg/Kg-dry	1	05/30/18 18:48
Isophorone	U		0.0080	0.21	mg/Kg-dry	1	05/30/18 18:48
Naphthalene	U		0.0052	0.0082	mg/Kg-dry	1	05/30/18 18:48
Nitrobenzene	U		0.014	0.21	mg/Kg-dry	1	05/30/18 18:48

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-3 (4)
Collection Date: 05/22/18 04:10 PM

Work Order: 18051689
Lab ID: 18051689-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		0.0068	0.041	mg/Kg-dry	1	05/30/18 18:48
N-Nitrosodiphenylamine	U		0.0039	0.041	mg/Kg-dry	1	05/30/18 18:48
Pentachlorophenol	U		0.015	0.041	mg/Kg-dry	1	05/30/18 18:48
Phenanthrene	U		0.0038	0.0082	mg/Kg-dry	1	05/30/18 18:48
Phenol	U		0.010	0.041	mg/Kg-dry	1	05/30/18 18:48
Pyrene	U		0.0015	0.0082	mg/Kg-dry	1	05/30/18 18:48
Surr: 2,4,6-Tribromophenol	*65.4*			*38-92*	*%REC*	1	05/30/18 18:48
Surr: 2-Fluorobiphenyl	*54.1*			*44-107*	*%REC*	1	05/30/18 18:48
Surr: 2-Fluorophenol	*77.5*			*37-109*	*%REC*	1	05/30/18 18:48
Surr: 4-Terphenyl-d14	*65.6*			*52-123*	*%REC*	1	05/30/18 18:48
Surr: Nitrobenzene-d5	*57.5*			*41-94*	*%REC*	1	05/30/18 18:48
Surr: Phenol-d6	*73.0*			*28-111*	*%REC*	1	05/30/18 18:48
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **EMR**
1,1,1-Trichloroethane	U		0.00073	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
1,1,2,2-Tetrachloroethane	U		0.00025	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
1,1,2-Trichloroethane	U		0.00036	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
1,1,2-Trichlorotrifluoroethane	U		0.0010	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
1,1-Dichloroethane	U		0.0019	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
1,1-Dichloroethene	U		0.00091	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
1,2,4-Trichlorobenzene	U		0.00067	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
1,2-Dibromo-3-chloropropane	U		0.0013	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
1,2-Dibromoethane	U		0.00033	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
1,2-Dichlorobenzene	U		0.00058	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
1,2-Dichloroethane	U		0.00033	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
1,2-Dichloropropane	U		0.00041	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
1,3-Dichlorobenzene	U		0.00048	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
1,4-Dichlorobenzene	U		0.00033	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
2-Butanone	U		0.0018	0.0092	mg/Kg-dry	0.745	05/30/18 12:25
2-Hexanone	U		0.00091	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
4-Methyl-2-pentanone	U		0.00075	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Acetone	**0.0048**	J	**0.0019**	**0.0092**	**mg/Kg-dry**	0.745	05/30/18 12:25
Benzene	U		0.00048	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Bromodichloromethane	U		0.00030	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Bromoform	U		0.00029	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Bromomethane	U		0.00067	0.0092	mg/Kg-dry	0.745	05/30/18 12:25
Carbon disulfide	U		0.00052	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Carbon tetrachloride	U		0.00077	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Chlorobenzene	U		0.00030	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Chloroethane	U		0.00058	0.0046	mg/Kg-dry	0.745	05/30/18 12:25

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-3 (4)
Collection Date: 05/22/18 04:10 PM

Work Order: 18051689
Lab ID: 18051689-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.00028	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Chloromethane	U		0.00042	0.0092	mg/Kg-dry	0.745	05/30/18 12:25
cis-1,2-Dichloroethene	U		0.00044	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
cis-1,3-Dichloropropene	U		0.00024	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Cyclohexane	U		0.0028	0.0092	mg/Kg-dry	0.745	05/30/18 12:25
Dibromochloromethane	U		0.00043	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Dichlorodifluoromethane	U		0.0010	0.0092	mg/Kg-dry	0.745	05/30/18 12:25
Ethylbenzene	U		0.00055	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Isopropylbenzene	U		0.00059	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
m,p-Xylene	U		0.0011	0.0023	mg/Kg-dry	0.745	05/30/18 12:25
Methyl acetate	U		0.0011	0.0092	mg/Kg-dry	0.745	05/30/18 12:25
Methyl tert-butyl ether	U		0.00021	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Methylcyclohexane	U		0.0014	0.0092	mg/Kg-dry	0.745	05/30/18 12:25
Methylene chloride	U		0.00079	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
o-Xylene	U		0.00043	0.0023	mg/Kg-dry	0.745	05/30/18 12:25
Styrene	U		0.00037	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Tetrachloroethene	U		0.00082	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Toluene	U		0.00052	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
trans-1,2-Dichloroethene	U		0.00037	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
trans-1,3-Dichloropropene	U		0.00027	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Trichloroethene	U		0.00067	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Trichlorofluoromethane	U		0.00066	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Vinyl chloride	U		0.00065	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Xylenes, Total	U		0.0016	0.0046	mg/Kg-dry	0.745	05/30/18 12:25
Surr: 1,2-Dichloroethane-d4	*108*			*83-132*	*%REC*	0.745	05/30/18 12:25
Surr: 4-Bromofluorobenzene	*97.1*			*83-111*	*%REC*	0.745	05/30/18 12:25
Surr: Dibromofluoromethane	*64.2*	S		*77-125*	*%REC*	0.745	05/30/18 12:25
Surr: Toluene-d8	*91.5*			*86-108*	*%REC*	0.745	05/30/18 12:25
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**19**		**0.025**	**0.050**	**% of sample**	1	05/31/18 13:00

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-3 (9)
Collection Date: 05/22/18 04:10 PM

Work Order: 18051689
Lab ID: 18051689-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.072**		**0.0024**	**0.024**	**mg/Kg-dry**	1	06/05/18 07:25
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**4.7**	J	**1.5**	**5.7**	**mg/Kg-dry**	10	06/04/18 12:06
Barium	**130**		**0.23**	**0.57**	**mg/Kg-dry**	1	06/01/18 21:23
Cadmium	U		0.055	1.1	mg/Kg-dry	1	06/01/18 21:23
Chromium	**5.1**	J	**0.32**	**5.7**	**mg/Kg-dry**	10	06/04/18 12:06
Lead	**19**		**1.2**	**5.7**	**mg/Kg-dry**	10	06/04/18 12:06
Selenium	U		3.2	11	mg/Kg-dry	10	06/04/18 12:06
Silver	U		0.071	0.57	mg/Kg-dry	1	06/01/18 21:23
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**30**		**0.025**	**0.050**	**% of sample**	1	05/31/18 13:00

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-3 (14)
Collection Date: 05/22/18 04:10 PM

Work Order: 18051689
Lab ID: 18051689-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.070**		**0.0027**	**0.027**	**mg/Kg-dry**	1	06/05/18 07:28
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**8.1**		**0.13**	**0.50**	**mg/Kg-dry**	1	06/01/18 21:29
Barium	**52**		**0.20**	**0.50**	**mg/Kg-dry**	1	06/01/18 21:29
Cadmium	U		0.048	0.99	mg/Kg-dry	1	06/01/18 21:29
Chromium	**0.94**		**0.028**	**0.50**	**mg/Kg-dry**	1	06/01/18 21:29
Lead	**27**		**0.11**	**0.50**	**mg/Kg-dry**	1	06/01/18 21:29
Selenium	**1.0**		**0.28**	**0.99**	**mg/Kg-dry**	1	06/01/18 21:29
Silver	U		0.062	0.50	mg/Kg-dry	1	06/01/18 21:29
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**33**		**0.025**	**0.050**	**% of sample**	1	05/31/18 13:00

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-4 (0-2)
Collection Date: 05/23/18 08:45 AM

Work Order: 18051689
Lab ID: 18051689-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.046**		**0.0020**	**0.020**	**mg/Kg-dry**	1	06/05/18 07:30
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**8.9**		**0.12**	**0.45**	**mg/Kg-dry**	1	06/01/18 21:35
Barium	**220**		**0.18**	**0.45**	**mg/Kg-dry**	1	06/01/18 21:35
Cadmium	**0.35**	J	**0.043**	**0.91**	**mg/Kg-dry**	1	06/01/18 21:35
Chromium	**9.6**		**0.025**	**0.45**	**mg/Kg-dry**	1	06/01/18 21:35
Lead	**9.0**		**0.096**	**0.45**	**mg/Kg-dry**	1	06/01/18 21:35
Selenium	**0.57**	J	**0.25**	**0.91**	**mg/Kg-dry**	1	06/01/18 21:35
Silver	U		0.056	0.45	mg/Kg-dry	1	06/01/18 21:35
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**16**		**0.025**	**0.050**	**% of sample**	1	05/31/18 15:05

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-4 (4)
Collection Date: 05/23/18 08:45 AM

Work Order: 18051689
Lab ID: 18051689-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 5/25/18		Analyst: **MEB**
DRO (C10-C28)	**20**		**3.5**	**6.1**	**mg/Kg-dry**	1	05/25/18 23:30
ORO (C28-C40)	**69**		**2.4**	**6.1**	**mg/Kg-dry**	1	05/25/18 23:30
Surr: 4-Terphenyl-d14	*80.1*			*34-130*	*%REC*	1	05/25/18 23:30
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035 / 5/25/18		Analyst: **MEB**
GRO (C6-C10)	U		3.1	7.3	mg/Kg-dry	1	05/25/18 22:04
Surr: Toluene-d8	*106*			*71-123*	*%REC*	1	05/25/18 22:04
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.077**		**0.0020**	**0.020**	**mg/Kg-dry**	1	06/05/18 07:33
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**17**		**0.13**	**0.50**	**mg/Kg-dry**	1	06/01/18 21:41
Barium	**81**		**0.20**	**0.50**	**mg/Kg-dry**	1	06/01/18 21:41
Cadmium	**0.37**	J	**0.048**	**1.0**	**mg/Kg-dry**	1	06/01/18 21:41
Chromium	**7.0**		**0.028**	**0.50**	**mg/Kg-dry**	1	06/01/18 21:41
Lead	**11**		**0.11**	**0.50**	**mg/Kg-dry**	1	06/01/18 21:41
Selenium	U		0.28	1.0	mg/Kg-dry	1	06/01/18 21:41
Silver	U		0.062	0.50	mg/Kg-dry	1	06/01/18 21:41
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 5/30/18		Analyst: **EB**
1,1`-Biphenyl	U		0.0066	0.040	mg/Kg-dry	1	05/30/18 19:13
2,4,5-Trichlorophenol	U		0.011	0.040	mg/Kg-dry	1	05/30/18 19:13
2,4,6-Trichlorophenol	U		0.011	0.040	mg/Kg-dry	1	05/30/18 19:13
2,4-Dichlorophenol	U		0.0085	0.040	mg/Kg-dry	1	05/30/18 19:13
2,4-Dimethylphenol	U		0.0083	0.040	mg/Kg-dry	1	05/30/18 19:13
2,4-Dinitrophenol	U		0.022	0.040	mg/Kg-dry	1	05/30/18 19:13
2,4-Dinitrotoluene	U		0.011	0.040	mg/Kg-dry	1	05/30/18 19:13
2,6-Dinitrotoluene	U		0.0067	0.040	mg/Kg-dry	1	05/30/18 19:13
2-Chloronaphthalene	U		0.0057	0.0081	mg/Kg-dry	1	05/30/18 19:13
2-Chlorophenol	U		0.013	0.040	mg/Kg-dry	1	05/30/18 19:13
2-Methylnaphthalene	U		0.0041	0.0081	mg/Kg-dry	1	05/30/18 19:13
2-Methylphenol	U		0.011	0.040	mg/Kg-dry	1	05/30/18 19:13
2-Nitroaniline	U		0.0093	0.040	mg/Kg-dry	1	05/30/18 19:13
2-Nitrophenol	U		0.012	0.040	mg/Kg-dry	1	05/30/18 19:13
3&4-Methylphenol	U		0.0081	0.040	mg/Kg-dry	1	05/30/18 19:13
3,3´-Dichlorobenzidine	U		0.0060	0.20	mg/Kg-dry	1	05/30/18 19:13
3-Nitroaniline	U		0.0093	0.040	mg/Kg-dry	1	05/30/18 19:13
4,6-Dinitro-2-methylphenol	U		0.010	0.040	mg/Kg-dry	1	05/30/18 19:13
4-Bromophenyl phenyl ether	U		0.011	0.040	mg/Kg-dry	1	05/30/18 19:13

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-4 (4)
Collection Date: 05/23/18 08:45 AM

Work Order: 18051689
Lab ID: 18051689-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloro-3-methylphenol	U		0.012	0.040	mg/Kg-dry	1	05/30/18 19:13
4-Chloroaniline	U		0.0064	0.081	mg/Kg-dry	1	05/30/18 19:13
4-Chlorophenyl phenyl ether	U		0.011	0.040	mg/Kg-dry	1	05/30/18 19:13
4-Nitroaniline	U		0.063	0.20	mg/Kg-dry	1	05/30/18 19:13
4-Nitrophenol	U		0.036	0.040	mg/Kg-dry	1	05/30/18 19:13
Acenaphthene	U		0.0059	0.0081	mg/Kg-dry	1	05/30/18 19:13
Acenaphthylene	U		0.0070	0.0081	mg/Kg-dry	1	05/30/18 19:13
Acetophenone	U		0.0063	0.040	mg/Kg-dry	1	05/30/18 19:13
Anthracene	U		0.0057	0.0081	mg/Kg-dry	1	05/30/18 19:13
Atrazine	U		0.0064	0.040	mg/Kg-dry	1	05/30/18 19:13
Benzaldehyde	U		0.062	0.081	mg/Kg-dry	1	05/30/18 19:13
Benzo(a)anthracene	U		0.0070	0.0081	mg/Kg-dry	1	05/30/18 19:13
Benzo(a)pyrene	U		0.0050	0.0081	mg/Kg-dry	1	05/30/18 19:13
Benzo(b)fluoranthene	U		0.0060	0.0081	mg/Kg-dry	1	05/30/18 19:13
Benzo(g,h,i)perylene	U		0.0062	0.0081	mg/Kg-dry	1	05/30/18 19:13
Benzo(k)fluoranthene	U		0.0061	0.0081	mg/Kg-dry	1	05/30/18 19:13
Bis(2-chloroethoxy)methane	U		0.0039	0.040	mg/Kg-dry	1	05/30/18 19:13
Bis(2-chloroethyl)ether	U		0.011	0.040	mg/Kg-dry	1	05/30/18 19:13
Bis(2-chloroisopropyl)ether	U		0.0095	0.040	mg/Kg-dry	1	05/30/18 19:13
Bis(2-ethylhexyl)phthalate	**0.064**		**0.0070**	**0.040**	**mg/Kg-dry**	1	05/30/18 19:13
Butyl benzyl phthalate	**0.033**	J	**0.0068**	**0.040**	**mg/Kg-dry**	1	05/30/18 19:13
Caprolactam	U		0.014	0.040	mg/Kg-dry	1	05/30/18 19:13
Carbazole	U		0.0044	0.040	mg/Kg-dry	1	05/30/18 19:13
Chrysene	U		0.0065	0.0081	mg/Kg-dry	1	05/30/18 19:13
Dibenzo(a,h)anthracene	U		0.0044	0.0081	mg/Kg-dry	1	05/30/18 19:13
Dibenzofuran	U		0.0059	0.040	mg/Kg-dry	1	05/30/18 19:13
Diethyl phthalate	U		0.0062	0.040	mg/Kg-dry	1	05/30/18 19:13
Dimethyl phthalate	U		0.0079	0.040	mg/Kg-dry	1	05/30/18 19:13
Di-n-butyl phthalate	U		0.0074	0.040	mg/Kg-dry	1	05/30/18 19:13
Di-n-octyl phthalate	U		0.0078	0.040	mg/Kg-dry	1	05/30/18 19:13
Fluoranthene	U		0.0039	0.0081	mg/Kg-dry	1	05/30/18 19:13
Fluorene	U		0.0059	0.0081	mg/Kg-dry	1	05/30/18 19:13
Hexachlorobenzene	U		0.012	0.040	mg/Kg-dry	1	05/30/18 19:13
Hexachlorobutadiene	U		0.022	0.040	mg/Kg-dry	1	05/30/18 19:13
Hexachlorocyclopentadiene	U		0.014	0.040	mg/Kg-dry	1	05/30/18 19:13
Hexachloroethane	U		0.017	0.040	mg/Kg-dry	1	05/30/18 19:13
Indeno(1,2,3-cd)pyrene	U		0.0056	0.0081	mg/Kg-dry	1	05/30/18 19:13
Isophorone	U		0.0079	0.20	mg/Kg-dry	1	05/30/18 19:13
Naphthalene	U		0.0052	0.0081	mg/Kg-dry	1	05/30/18 19:13
Nitrobenzene	U		0.014	0.20	mg/Kg-dry	1	05/30/18 19:13

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-4 (4)
Collection Date: 05/23/18 08:45 AM

Work Order: 18051689
Lab ID: 18051689-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		0.0067	0.040	mg/Kg-dry	1	05/30/18 19:13
N-Nitrosodiphenylamine	U		0.0039	0.040	mg/Kg-dry	1	05/30/18 19:13
Pentachlorophenol	U		0.015	0.040	mg/Kg-dry	1	05/30/18 19:13
Phenanthrene	U		0.0038	0.0081	mg/Kg-dry	1	05/30/18 19:13
Phenol	U		0.010	0.040	mg/Kg-dry	1	05/30/18 19:13
Pyrene	U		0.0015	0.0081	mg/Kg-dry	1	05/30/18 19:13
Surr: 2,4,6-Tribromophenol	*66.6*			*38-92*	*%REC*	1	05/30/18 19:13
Surr: 2-Fluorobiphenyl	*57.8*			*44-107*	*%REC*	1	05/30/18 19:13
Surr: 2-Fluorophenol	*73.6*			*37-109*	*%REC*	1	05/30/18 19:13
Surr: 4-Terphenyl-d14	*69.6*			*52-123*	*%REC*	1	05/30/18 19:13
Surr: Nitrobenzene-d5	*59.5*			*41-94*	*%REC*	1	05/30/18 19:13
Surr: Phenol-d6	*70.2*			*28-111*	*%REC*	1	05/30/18 19:13
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**			Prep: SW5035 / 5/25/18		Analyst: **WH**
Acetone	U		0.046	0.15	mg/Kg-dry	1	05/30/18 03:35
Surr: 1,2-Dichloroethane-d4	*108*			*70-130*	*%REC*	1	05/30/18 03:35
Surr: 4-Bromofluorobenzene	*85.7*			*70-130*	*%REC*	1	05/30/18 03:35
Surr: Dibromofluoromethane	*90.8*			*70-130*	*%REC*	1	05/30/18 03:35
Surr: Toluene-d8	*88.3*			*70-130*	*%REC*	1	05/30/18 03:35
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **EMR**
1,1,1-Trichloroethane	U		0.00078	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
1,1,2,2-Tetrachloroethane	U		0.00027	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
1,1,2-Trichloroethane	U		0.00038	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
1,1,2-Trichlorotrifluoroethane	U		0.0011	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
1,1-Dichloroethane	U		0.0020	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
1,1-Dichloroethene	U		0.00096	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
1,2,4-Trichlorobenzene	U		0.00072	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
1,2-Dibromo-3-chloropropane	U		0.0014	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
1,2-Dibromoethane	U		0.00035	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
1,2-Dichlorobenzene	U		0.00062	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
1,2-Dichloroethane	U		0.00035	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
1,2-Dichloropropane	U		0.00043	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
1,3-Dichlorobenzene	U		0.00051	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
1,4-Dichlorobenzene	U		0.00035	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
2-Butanone	**0.0027**	J	**0.0019**	**0.0098**	**mg/Kg-dry**	0.799	05/30/18 12:42
2-Hexanone	U		0.00096	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
4-Methyl-2-pentanone	U		0.00080	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Benzene	U		0.00051	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Bromodichloromethane	U		0.00032	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Bromoform	U		0.00031	0.0049	mg/Kg-dry	0.799	05/30/18 12:42

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-4 (4)
Collection Date: 05/23/18 08:45 AM

Work Order: 18051689
Lab ID: 18051689-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromomethane	U		0.00071	0.0098	mg/Kg-dry	0.799	05/30/18 12:42
Carbon disulfide	U		0.00055	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Carbon tetrachloride	U		0.00082	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Chlorobenzene	U		0.00032	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Chloroethane	U		0.00062	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Chloroform	U		0.00030	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Chloromethane	U		0.00045	0.0098	mg/Kg-dry	0.799	05/30/18 12:42
cis-1,2-Dichloroethene	U		0.00047	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
cis-1,3-Dichloropropene	U		0.00026	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Cyclohexane	U		0.0030	0.0098	mg/Kg-dry	0.799	05/30/18 12:42
Dibromochloromethane	U		0.00046	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Dichlorodifluoromethane	U		0.0011	0.0098	mg/Kg-dry	0.799	05/30/18 12:42
Ethylbenzene	U		0.00059	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Isopropylbenzene	U		0.00063	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
m,p-Xylene	U		0.0012	0.0025	mg/Kg-dry	0.799	05/30/18 12:42
Methyl acetate	U		0.0012	0.0098	mg/Kg-dry	0.799	05/30/18 12:42
Methyl tert-butyl ether	U		0.00023	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Methylcyclohexane	U		0.0015	0.0098	mg/Kg-dry	0.799	05/30/18 12:42
Methylene chloride	U		0.00085	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
o-Xylene	U		0.00046	0.0025	mg/Kg-dry	0.799	05/30/18 12:42
Styrene	U		0.00039	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Tetrachloroethene	U		0.00088	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Toluene	**0.00071**	J	**0.00055**	**0.0049**	**mg/Kg-dry**	0.799	05/30/18 12:42
trans-1,2-Dichloroethene	U		0.00039	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
trans-1,3-Dichloropropene	U		0.00029	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Trichloroethene	U		0.00071	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Trichlorofluoromethane	U		0.00070	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Vinyl chloride	U		0.00069	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Xylenes, Total	U		0.0017	0.0049	mg/Kg-dry	0.799	05/30/18 12:42
Surr: 1,2-Dichloroethane-d4	*106*			*83-132*	*%REC*	0.799	05/30/18 12:42
Surr: 4-Bromofluorobenzene	*97.8*			*83-111*	*%REC*	0.799	05/30/18 12:42
Surr: Dibromofluoromethane	*49.8*	S		*77-125*	*%REC*	0.799	05/30/18 12:42
Surr: Toluene-d8	*94.2*			*86-108*	*%REC*	0.799	05/30/18 12:42
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**19**		**0.025**	**0.050**	**% of sample**	1	05/31/18 15:05

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-4 (9)
Collection Date: 05/23/18 08:45 AM

Work Order: 18051689
Lab ID: 18051689-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.070**		**0.0026**	**0.026**	**mg/Kg-dry**	1	06/05/18 07:35
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**2.8**		**0.14**	**0.53**	**mg/Kg-dry**	1	06/01/18 21:47
Barium	**35**		**0.21**	**0.53**	**mg/Kg-dry**	1	06/01/18 21:47
Cadmium	U		0.051	1.1	mg/Kg-dry	1	06/01/18 21:47
Chromium	**2.3**		**0.030**	**0.53**	**mg/Kg-dry**	1	06/01/18 21:47
Lead	**16**		**0.11**	**0.53**	**mg/Kg-dry**	1	06/01/18 21:47
Selenium	U		0.30	1.1	mg/Kg-dry	1	06/01/18 21:47
Silver	U		0.066	0.53	mg/Kg-dry	1	06/01/18 21:47
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**31**		**0.025**	**0.050**	**% of sample**	1	05/31/18 15:05

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-4 (14)
Collection Date: 05/23/18 08:45 AM

Work Order: 18051689
Lab ID: 18051689-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.13**		**0.0024**	**0.024**	**mg/Kg-dry**	1	06/05/18 07:38
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**6.9**		**0.15**	**0.59**	**mg/Kg-dry**	1	06/01/18 21:53
Barium	**100**		**0.24**	**0.59**	**mg/Kg-dry**	1	06/01/18 21:53
Cadmium	U		0.057	1.2	mg/Kg-dry	1	06/01/18 21:53
Chromium	**1.3**		**0.033**	**0.59**	**mg/Kg-dry**	1	06/01/18 21:53
Lead	**34**		**0.13**	**0.59**	**mg/Kg-dry**	1	06/01/18 21:53
Selenium	**0.50**	J	**0.33**	**1.2**	**mg/Kg-dry**	1	06/01/18 21:53
Silver	U		0.074	0.59	mg/Kg-dry	1	06/01/18 21:53
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**33**		**0.025**	**0.050**	**% of sample**	1	05/31/18 15:05

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-5 (0-2)
Collection Date: 05/23/18 09:10 AM

Work Order: 18051689
Lab ID: 18051689-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.029**		**0.0020**	**0.020**	**mg/Kg-dry**	1	06/05/18 07:48
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**7.5**		**0.13**	**0.49**	**mg/Kg-dry**	1	06/01/18 21:59
Barium	**180**		**0.19**	**0.49**	**mg/Kg-dry**	1	06/01/18 21:59
Cadmium	**0.37**	J	**0.047**	**0.97**	**mg/Kg-dry**	1	06/01/18 21:59
Chromium	**7.9**		**0.027**	**0.49**	**mg/Kg-dry**	1	06/01/18 21:59
Lead	**8.5**		**0.10**	**0.49**	**mg/Kg-dry**	1	06/01/18 21:59
Selenium	**0.71**	J	**0.27**	**0.97**	**mg/Kg-dry**	1	06/01/18 21:59
Silver	U		0.060	0.49	mg/Kg-dry	1	06/01/18 21:59
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**15**		**0.025**	**0.050**	**% of sample**	1	05/31/18 15:05

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-5 (4)
Collection Date: 05/23/18 09:10 AM

Work Order: 18051689
Lab ID: 18051689-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 5/25/18		Analyst: **MEB**
DRO (C10-C28)	**6.6**		**3.2**	**5.5**	**mg/Kg-dry**	1	05/26/18 12:00
ORO (C28-C40)	**23**		**2.1**	**5.5**	**mg/Kg-dry**	1	05/26/18 12:00
Surr: 4-Terphenyl-d14	*80.1*			*34-130*	*%REC*	1	05/26/18 12:00
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035 / 5/25/18		Analyst: **MEB**
GRO (C6-C10)	U		2.7	6.5	mg/Kg-dry	1	05/25/18 22:34
Surr: Toluene-d8	*104*			*71-123*	*%REC*	1	05/25/18 22:34
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.023**		**0.0021**	**0.021**	**mg/Kg-dry**	1	06/05/18 07:51
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**4.4**		**0.11**	**0.42**	**mg/Kg-dry**	1	06/01/18 22:35
Barium	**84**		**0.17**	**0.42**	**mg/Kg-dry**	1	06/01/18 22:35
Cadmium	**0.20**	J	**0.040**	**0.83**	**mg/Kg-dry**	1	06/01/18 22:35
Chromium	**5.0**		**0.023**	**0.42**	**mg/Kg-dry**	1	06/01/18 22:35
Lead	**5.7**		**0.088**	**0.42**	**mg/Kg-dry**	1	06/01/18 22:35
Selenium	U		0.23	0.83	mg/Kg-dry	1	06/01/18 22:35
Silver	U		0.052	0.42	mg/Kg-dry	1	06/01/18 22:35
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 5/30/18		Analyst: **EB**
1,1`-Biphenyl	U		0.0062	0.038	mg/Kg-dry	1	05/30/18 20:12
2,4,5-Trichlorophenol	U		0.010	0.038	mg/Kg-dry	1	05/30/18 20:12
2,4,6-Trichlorophenol	U		0.010	0.038	mg/Kg-dry	1	05/30/18 20:12
2,4-Dichlorophenol	U		0.0080	0.038	mg/Kg-dry	1	05/30/18 20:12
2,4-Dimethylphenol	U		0.0078	0.038	mg/Kg-dry	1	05/30/18 20:12
2,4-Dinitrophenol	U		0.021	0.038	mg/Kg-dry	1	05/30/18 20:12
2,4-Dinitrotoluene	U		0.0099	0.038	mg/Kg-dry	1	05/30/18 20:12
2,6-Dinitrotoluene	U		0.0063	0.038	mg/Kg-dry	1	05/30/18 20:12
2-Chloronaphthalene	U		0.0053	0.0076	mg/Kg-dry	1	05/30/18 20:12
2-Chlorophenol	U		0.012	0.038	mg/Kg-dry	1	05/30/18 20:12
2-Methylnaphthalene	U		0.0039	0.0076	mg/Kg-dry	1	05/30/18 20:12
2-Methylphenol	U		0.010	0.038	mg/Kg-dry	1	05/30/18 20:12
2-Nitroaniline	U		0.0087	0.038	mg/Kg-dry	1	05/30/18 20:12
2-Nitrophenol	U		0.011	0.038	mg/Kg-dry	1	05/30/18 20:12
3&4-Methylphenol	U		0.0077	0.038	mg/Kg-dry	1	05/30/18 20:12
3,3´-Dichlorobenzidine	U		0.0057	0.19	mg/Kg-dry	1	05/30/18 20:12
3-Nitroaniline	U		0.0087	0.038	mg/Kg-dry	1	05/30/18 20:12
4,6-Dinitro-2-methylphenol	U		0.0096	0.038	mg/Kg-dry	1	05/30/18 20:12
4-Bromophenyl phenyl ether	U		0.010	0.038	mg/Kg-dry	1	05/30/18 20:12

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-5 (4)
Collection Date: 05/23/18 09:10 AM

Work Order: 18051689
Lab ID: 18051689-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloro-3-methylphenol	U		0.011	0.038	mg/Kg-dry	1	05/30/18 20:12
4-Chloroaniline	U		0.0060	0.077	mg/Kg-dry	1	05/30/18 20:12
4-Chlorophenyl phenyl ether	U		0.011	0.038	mg/Kg-dry	1	05/30/18 20:12
4-Nitroaniline	U		0.059	0.19	mg/Kg-dry	1	05/30/18 20:12
4-Nitrophenol	U		0.034	0.038	mg/Kg-dry	1	05/30/18 20:12
Acenaphthene	U		0.0055	0.0076	mg/Kg-dry	1	05/30/18 20:12
Acenaphthylene	U		0.0066	0.0076	mg/Kg-dry	1	05/30/18 20:12
Acetophenone	U		0.0060	0.038	mg/Kg-dry	1	05/30/18 20:12
Anthracene	U		0.0054	0.0076	mg/Kg-dry	1	05/30/18 20:12
Atrazine	U		0.0060	0.038	mg/Kg-dry	1	05/30/18 20:12
Benzaldehyde	U		0.059	0.077	mg/Kg-dry	1	05/30/18 20:12
Benzo(a)anthracene	U		0.0066	0.0076	mg/Kg-dry	1	05/30/18 20:12
Benzo(a)pyrene	U		0.0047	0.0076	mg/Kg-dry	1	05/30/18 20:12
Benzo(b)fluoranthene	U		0.0057	0.0076	mg/Kg-dry	1	05/30/18 20:12
Benzo(g,h,i)perylene	U		0.0058	0.0076	mg/Kg-dry	1	05/30/18 20:12
Benzo(k)fluoranthene	U		0.0058	0.0076	mg/Kg-dry	1	05/30/18 20:12
Bis(2-chloroethoxy)methane	U		0.0037	0.038	mg/Kg-dry	1	05/30/18 20:12
Bis(2-chloroethyl)ether	U		0.011	0.038	mg/Kg-dry	1	05/30/18 20:12
Bis(2-chloroisopropyl)ether	U		0.0089	0.038	mg/Kg-dry	1	05/30/18 20:12
Bis(2-ethylhexyl)phthalate	U		0.0066	0.038	mg/Kg-dry	1	05/30/18 20:12
Butyl benzyl phthalate	**0.046**		**0.0065**	**0.038**	**mg/Kg-dry**	1	05/30/18 20:12
Caprolactam	U		0.013	0.038	mg/Kg-dry	1	05/30/18 20:12
Carbazole	U		0.0041	0.038	mg/Kg-dry	1	05/30/18 20:12
Chrysene	U		0.0062	0.0076	mg/Kg-dry	1	05/30/18 20:12
Dibenzo(a,h)anthracene	U		0.0041	0.0076	mg/Kg-dry	1	05/30/18 20:12
Dibenzofuran	U		0.0056	0.038	mg/Kg-dry	1	05/30/18 20:12
Diethyl phthalate	U		0.0058	0.038	mg/Kg-dry	1	05/30/18 20:12
Dimethyl phthalate	U		0.0074	0.038	mg/Kg-dry	1	05/30/18 20:12
Di-n-butyl phthalate	U		0.0070	0.038	mg/Kg-dry	1	05/30/18 20:12
Di-n-octyl phthalate	U		0.0073	0.038	mg/Kg-dry	1	05/30/18 20:12
Fluoranthene	U		0.0037	0.0076	mg/Kg-dry	1	05/30/18 20:12
Fluorene	U		0.0055	0.0076	mg/Kg-dry	1	05/30/18 20:12
Hexachlorobenzene	U		0.011	0.038	mg/Kg-dry	1	05/30/18 20:12
Hexachlorobutadiene	U		0.021	0.038	mg/Kg-dry	1	05/30/18 20:12
Hexachlorocyclopentadiene	U		0.013	0.038	mg/Kg-dry	1	05/30/18 20:12
Hexachloroethane	U		0.016	0.038	mg/Kg-dry	1	05/30/18 20:12
Indeno(1,2,3-cd)pyrene	U		0.0053	0.0076	mg/Kg-dry	1	05/30/18 20:12
Isophorone	U		0.0075	0.19	mg/Kg-dry	1	05/30/18 20:12
Naphthalene	U		0.0049	0.0076	mg/Kg-dry	1	05/30/18 20:12
Nitrobenzene	U		0.013	0.19	mg/Kg-dry	1	05/30/18 20:12

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-5 (4)
Collection Date: 05/23/18 09:10 AM

Work Order: 18051689
Lab ID: 18051689-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		0.0063	0.038	mg/Kg-dry	1	05/30/18 20:12
N-Nitrosodiphenylamine	U		0.0037	0.038	mg/Kg-dry	1	05/30/18 20:12
Pentachlorophenol	U		0.014	0.038	mg/Kg-dry	1	05/30/18 20:12
Phenanthrene	U		0.0035	0.0076	mg/Kg-dry	1	05/30/18 20:12
Phenol	U		0.0095	0.038	mg/Kg-dry	1	05/30/18 20:12
Pyrene	U		0.0014	0.0076	mg/Kg-dry	1	05/30/18 20:12
Surr: 2,4,6-Tribromophenol	*62.7*			*38-92*	*%REC*	1	05/30/18 20:12
Surr: 2-Fluorobiphenyl	*64.6*			*44-107*	*%REC*	1	05/30/18 20:12
Surr: 2-Fluorophenol	*69.2*			*37-109*	*%REC*	1	05/30/18 20:12
Surr: 4-Terphenyl-d14	*87.0*			*52-123*	*%REC*	1	05/30/18 20:12
Surr: Nitrobenzene-d5	*65.3*			*41-94*	*%REC*	1	05/30/18 20:12
Surr: Phenol-d6	*66.8*			*28-111*	*%REC*	1	05/30/18 20:12
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **EMR**
1,1,1-Trichloroethane	U		0.00075	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
1,1,2,2-Tetrachloroethane	U		0.00026	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
1,1,2-Trichloroethane	U		0.00037	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
1,1,2-Trichlorotrifluoroethane	U		0.0010	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
1,1-Dichloroethane	U		0.0020	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
1,1-Dichloroethene	U		0.00093	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
1,2,4-Trichlorobenzene	U		0.00069	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
1,2-Dibromo-3-chloropropane	U		0.0013	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
1,2-Dibromoethane	U		0.00034	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
1,2-Dichlorobenzene	U		0.00060	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
1,2-Dichloroethane	U		0.00034	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
1,2-Dichloropropane	U		0.00042	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
1,3-Dichlorobenzene	U		0.00049	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
1,4-Dichlorobenzene	U		0.00034	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
2-Butanone	**0.0027**	J	**0.0018**	**0.0095**	**mg/Kg-dry**	0.824	05/30/18 12:58
2-Hexanone	U		0.00093	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
4-Methyl-2-pentanone	U		0.00077	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Acetone	**0.020**		**0.0020**	**0.0095**	**mg/Kg-dry**	0.824	05/30/18 12:58
Benzene	U		0.00049	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Bromodichloromethane	U		0.00030	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Bromoform	U		0.00029	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Bromomethane	U		0.00068	0.0095	mg/Kg-dry	0.824	05/30/18 12:58
Carbon disulfide	U		0.00053	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Carbon tetrachloride	U		0.00079	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Chlorobenzene	U		0.00030	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Chloroethane	U		0.00060	0.0047	mg/Kg-dry	0.824	05/30/18 12:58

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-5 (4)
Collection Date: 05/23/18 09:10 AM

Work Order: 18051689
Lab ID: 18051689-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.00028	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Chloromethane	U		0.00044	0.0095	mg/Kg-dry	0.824	05/30/18 12:58
cis-1,2-Dichloroethene	U		0.00046	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
cis-1,3-Dichloropropene	U		0.00025	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Cyclohexane	U		0.0029	0.0095	mg/Kg-dry	0.824	05/30/18 12:58
Dibromochloromethane	U		0.00045	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Dichlorodifluoromethane	U		0.0010	0.0095	mg/Kg-dry	0.824	05/30/18 12:58
Ethylbenzene	U		0.00057	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Isopropylbenzene	U		0.00061	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
m,p-Xylene	U		0.0012	0.0024	mg/Kg-dry	0.824	05/30/18 12:58
Methyl acetate	U		0.0011	0.0095	mg/Kg-dry	0.824	05/30/18 12:58
Methyl tert-butyl ether	U		0.00022	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Methylcyclohexane	U		0.0014	0.0095	mg/Kg-dry	0.824	05/30/18 12:58
Methylene chloride	U		0.00082	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
o-Xylene	U		0.00045	0.0024	mg/Kg-dry	0.824	05/30/18 12:58
Styrene	U		0.00038	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Tetrachloroethene	U		0.00085	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Toluene	U		0.00053	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
trans-1,2-Dichloroethene	U		0.00038	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
trans-1,3-Dichloropropene	U		0.00028	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Trichloroethene	U		0.00068	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Trichlorofluoromethane	U		0.00067	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Vinyl chloride	U		0.00066	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Xylenes, Total	U		0.0016	0.0047	mg/Kg-dry	0.824	05/30/18 12:58
Surr: 1,2-Dichloroethane-d4	*106*			*83-132*	*%REC*	0.824	05/30/18 12:58
Surr: 4-Bromofluorobenzene	*98.1*			*83-111*	*%REC*	0.824	05/30/18 12:58
Surr: Dibromofluoromethane	*53.4*	S		*77-125*	*%REC*	0.824	05/30/18 12:58
Surr: Toluene-d8	*90.3*			*86-108*	*%REC*	0.824	05/30/18 12:58
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**13**		**0.025**	**0.050**	**% of sample**	1	05/31/18 15:05

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-5 (9)
Collection Date: 05/23/18 09:10 AM

Work Order: 18051689
Lab ID: 18051689-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.070**		**0.0024**	**0.024**	**mg/Kg-dry**	1	06/05/18 07:53
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**21**		**0.14**	**0.54**	**mg/Kg-dry**	1	06/01/18 22:41
Barium	**180**		**0.22**	**0.54**	**mg/Kg-dry**	1	06/01/18 22:41
Cadmium	**0.78**	J	**0.052**	**1.1**	**mg/Kg-dry**	1	06/01/18 22:41
Chromium	**10**		**0.030**	**0.54**	**mg/Kg-dry**	1	06/01/18 22:41
Lead	**12**		**0.11**	**0.54**	**mg/Kg-dry**	1	06/01/18 22:41
Selenium	**0.59**	J	**0.30**	**1.1**	**mg/Kg-dry**	1	06/01/18 22:41
Silver	U		0.067	0.54	mg/Kg-dry	1	06/01/18 22:41
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**24**		**0.025**	**0.050**	**% of sample**	1	05/31/18 15:05

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-5 (14)
Collection Date: 05/23/18 09:10 AM

Work Order: 18051689
Lab ID: 18051689-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/4/18		Analyst: **RSH**
Mercury	**0.075**		**0.0028**	**0.028**	**mg/Kg-dry**	1	06/05/18 07:56
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**70**		**0.14**	**0.56**	**mg/Kg-dry**	1	06/01/18 22:47
Barium	**190**		**0.22**	**0.56**	**mg/Kg-dry**	1	06/01/18 22:47
Cadmium	**8.9**		**0.053**	**1.1**	**mg/Kg-dry**	1	06/01/18 22:47
Chromium	**16**		**0.031**	**0.56**	**mg/Kg-dry**	1	06/01/18 22:47
Lead	**12**		**0.12**	**0.56**	**mg/Kg-dry**	1	06/01/18 22:47
Selenium	**4.5**		**0.31**	**1.1**	**mg/Kg-dry**	1	06/01/18 22:47
Silver	U		0.069	0.56	mg/Kg-dry	1	06/01/18 22:47
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**33**		**0.025**	**0.050**	**% of sample**	1	05/31/18 15:05

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-6 (0-2)
Collection Date: 05/23/18 09:30 AM

Work Order: 18051689
Lab ID: 18051689-21
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.028**		**0.0021**	**0.021**	**mg/Kg-dry**	1	06/05/18 08:44
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**6.4**		**0.10**	**0.39**	**mg/Kg-dry**	1	06/01/18 22:54
Barium	**230**		**0.16**	**0.39**	**mg/Kg-dry**	1	06/01/18 22:54
Cadmium	**0.38**	J	**0.037**	**0.78**	**mg/Kg-dry**	1	06/01/18 22:54
Chromium	**6.4**		**0.022**	**0.39**	**mg/Kg-dry**	1	06/01/18 22:54
Lead	**8.1**		**0.082**	**0.39**	**mg/Kg-dry**	1	06/01/18 22:54
Selenium	**0.67**	J	**0.22**	**0.78**	**mg/Kg-dry**	1	06/01/18 22:54
Silver	U		0.048	0.39	mg/Kg-dry	1	06/01/18 22:54
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**15**		**0.025**	**0.050**	**% of sample**	1	05/31/18 15:05

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-6 (4)
Collection Date: 05/23/18 09:30 AM

Work Order: 18051689
Lab ID: 18051689-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 5/25/18		Analyst: **MEB**
DRO (C10-C28)	U		3.7	6.5	mg/Kg-dry	1	05/25/18 20:35
ORO (C28-C40)	**9.2**		**2.5**	**6.5**	**mg/Kg-dry**	1	05/25/18 20:35
Surr: 4-Terphenyl-d14	*72.6*			*34-130*	*%REC*	1	05/25/18 20:35
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035 / 5/25/18		Analyst: **MEB**
GRO (C6-C10)	U		3.3	8.0	mg/Kg-dry	1	05/25/18 23:03
Surr: Toluene-d8	*103*			*71-123*	*%REC*	1	05/25/18 23:03
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.033**		**0.0024**	**0.024**	**mg/Kg-dry**	1	06/05/18 08:46
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**3.4**		**0.12**	**0.46**	**mg/Kg-dry**	1	06/01/18 23:00
Barium	**120**		**0.19**	**0.46**	**mg/Kg-dry**	1	06/01/18 23:00
Cadmium	**0.13**	J	**0.045**	**0.93**	**mg/Kg-dry**	1	06/01/18 23:00
Chromium	**9.0**		**0.026**	**0.46**	**mg/Kg-dry**	1	06/01/18 23:00
Lead	**8.1**		**0.098**	**0.46**	**mg/Kg-dry**	1	06/01/18 23:00
Selenium	U		0.26	0.93	mg/Kg-dry	1	06/01/18 23:00
Silver	U		0.058	0.46	mg/Kg-dry	1	06/01/18 23:00
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 5/30/18		Analyst: **EB**
1,1`-Biphenyl	U		0.0068	0.042	mg/Kg-dry	1	05/30/18 19:38
2,4,5-Trichlorophenol	U		0.011	0.042	mg/Kg-dry	1	05/30/18 19:38
2,4,6-Trichlorophenol	U		0.011	0.042	mg/Kg-dry	1	05/30/18 19:38
2,4-Dichlorophenol	U		0.0089	0.042	mg/Kg-dry	1	05/30/18 19:38
2,4-Dimethylphenol	U		0.0086	0.042	mg/Kg-dry	1	05/30/18 19:38
2,4-Dinitrophenol	U		0.023	0.042	mg/Kg-dry	1	05/30/18 19:38
2,4-Dinitrotoluene	U		0.011	0.042	mg/Kg-dry	1	05/30/18 19:38
2,6-Dinitrotoluene	U		0.0069	0.042	mg/Kg-dry	1	05/30/18 19:38
2-Chloronaphthalene	U		0.0059	0.0084	mg/Kg-dry	1	05/30/18 19:38
2-Chlorophenol	U		0.013	0.042	mg/Kg-dry	1	05/30/18 19:38
2-Methylnaphthalene	U		0.0043	0.0084	mg/Kg-dry	1	05/30/18 19:38
2-Methylphenol	U		0.011	0.042	mg/Kg-dry	1	05/30/18 19:38
2-Nitroaniline	U		0.0096	0.042	mg/Kg-dry	1	05/30/18 19:38
2-Nitrophenol	U		0.012	0.042	mg/Kg-dry	1	05/30/18 19:38
3&4-Methylphenol	U		0.0085	0.042	mg/Kg-dry	1	05/30/18 19:38
3,3´-Dichlorobenzidine	U		0.0062	0.21	mg/Kg-dry	1	05/30/18 19:38
3-Nitroaniline	U		0.0096	0.042	mg/Kg-dry	1	05/30/18 19:38
4,6-Dinitro-2-methylphenol	U		0.011	0.042	mg/Kg-dry	1	05/30/18 19:38
4-Bromophenyl phenyl ether	U		0.011	0.042	mg/Kg-dry	1	05/30/18 19:38

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-6 (4)
Collection Date: 05/23/18 09:30 AM

Work Order: 18051689
Lab ID: 18051689-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloro-3-methylphenol	U		0.012	0.042	mg/Kg-dry	1	05/30/18 19:38
4-Chloroaniline	U		0.0067	0.085	mg/Kg-dry	1	05/30/18 19:38
4-Chlorophenyl phenyl ether	U		0.012	0.042	mg/Kg-dry	1	05/30/18 19:38
4-Nitroaniline	U		0.065	0.21	mg/Kg-dry	1	05/30/18 19:38
4-Nitrophenol	U		0.038	0.042	mg/Kg-dry	1	05/30/18 19:38
Acenaphthene	U		0.0061	0.0084	mg/Kg-dry	1	05/30/18 19:38
Acenaphthylene	U		0.0073	0.0084	mg/Kg-dry	1	05/30/18 19:38
Acetophenone	U		0.0066	0.042	mg/Kg-dry	1	05/30/18 19:38
Anthracene	U		0.0059	0.0084	mg/Kg-dry	1	05/30/18 19:38
Atrazine	U		0.0066	0.042	mg/Kg-dry	1	05/30/18 19:38
Benzaldehyde	U		0.065	0.085	mg/Kg-dry	1	05/30/18 19:38
Benzo(a)anthracene	U		0.0073	0.0084	mg/Kg-dry	1	05/30/18 19:38
Benzo(a)pyrene	U		0.0052	0.0084	mg/Kg-dry	1	05/30/18 19:38
Benzo(b)fluoranthene	U		0.0063	0.0084	mg/Kg-dry	1	05/30/18 19:38
Benzo(g,h,i)perylene	U		0.0065	0.0084	mg/Kg-dry	1	05/30/18 19:38
Benzo(k)fluoranthene	U		0.0064	0.0084	mg/Kg-dry	1	05/30/18 19:38
Bis(2-chloroethoxy)methane	U		0.0040	0.042	mg/Kg-dry	1	05/30/18 19:38
Bis(2-chloroethyl)ether	U		0.012	0.042	mg/Kg-dry	1	05/30/18 19:38
Bis(2-chloroisopropyl)ether	U		0.0099	0.042	mg/Kg-dry	1	05/30/18 19:38
Bis(2-ethylhexyl)phthalate	**0.042**		**0.0073**	**0.042**	**mg/Kg-dry**	1	05/30/18 19:38
Butyl benzyl phthalate	U		0.0071	0.042	mg/Kg-dry	1	05/30/18 19:38
Caprolactam	U		0.014	0.042	mg/Kg-dry	1	05/30/18 19:38
Carbazole	U		0.0045	0.042	mg/Kg-dry	1	05/30/18 19:38
Chrysene	U		0.0068	0.0084	mg/Kg-dry	1	05/30/18 19:38
Dibenzo(a,h)anthracene	U		0.0045	0.0084	mg/Kg-dry	1	05/30/18 19:38
Dibenzofuran	U		0.0062	0.042	mg/Kg-dry	1	05/30/18 19:38
Diethyl phthalate	U		0.0064	0.042	mg/Kg-dry	1	05/30/18 19:38
Dimethyl phthalate	U		0.0082	0.042	mg/Kg-dry	1	05/30/18 19:38
Di-n-butyl phthalate	U		0.0077	0.042	mg/Kg-dry	1	05/30/18 19:38
Di-n-octyl phthalate	U		0.0081	0.042	mg/Kg-dry	1	05/30/18 19:38
Fluoranthene	U		0.0040	0.0084	mg/Kg-dry	1	05/30/18 19:38
Fluorene	U		0.0061	0.0084	mg/Kg-dry	1	05/30/18 19:38
Hexachlorobenzene	U		0.012	0.042	mg/Kg-dry	1	05/30/18 19:38
Hexachlorobutadiene	U		0.023	0.042	mg/Kg-dry	1	05/30/18 19:38
Hexachlorocyclopentadiene	U		0.014	0.042	mg/Kg-dry	1	05/30/18 19:38
Hexachloroethane	U		0.017	0.042	mg/Kg-dry	1	05/30/18 19:38
Indeno(1,2,3-cd)pyrene	U		0.0059	0.0084	mg/Kg-dry	1	05/30/18 19:38
Isophorone	U		0.0082	0.21	mg/Kg-dry	1	05/30/18 19:38
Naphthalene	U		0.0054	0.0084	mg/Kg-dry	1	05/30/18 19:38
Nitrobenzene	U		0.014	0.21	mg/Kg-dry	1	05/30/18 19:38

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-6 (4)
Collection Date: 05/23/18 09:30 AM

Work Order: 18051689
Lab ID: 18051689-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		0.0069	0.042	mg/Kg-dry	1	05/30/18 19:38
N-Nitrosodiphenylamine	U		0.0040	0.042	mg/Kg-dry	1	05/30/18 19:38
Pentachlorophenol	U		0.016	0.042	mg/Kg-dry	1	05/30/18 19:38
Phenanthrene	U		0.0039	0.0084	mg/Kg-dry	1	05/30/18 19:38
Phenol	U		0.010	0.042	mg/Kg-dry	1	05/30/18 19:38
Pyrene	U		0.0015	0.0084	mg/Kg-dry	1	05/30/18 19:38
Surr: 2,4,6-Tribromophenol	*44.1*			*38-92*	*%REC*	1	05/30/18 19:38
Surr: 2-Fluorobiphenyl	*50.4*			*44-107*	*%REC*	1	05/30/18 19:38
Surr: 2-Fluorophenol	*60.1*			*37-109*	*%REC*	1	05/30/18 19:38
Surr: 4-Terphenyl-d14	*54.5*			*52-123*	*%REC*	1	05/30/18 19:38
Surr: Nitrobenzene-d5	*53.9*			*41-94*	*%REC*	1	05/30/18 19:38
Surr: Phenol-d6	*55.3*			*28-111*	*%REC*	1	05/30/18 19:38
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **EMR**
1,1,1-Trichloroethane	U		0.0010	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
1,1,2,2-Tetrachloroethane	U		0.00035	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
1,1,2-Trichloroethane	U		0.00051	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
1,1,2-Trichlorotrifluoroethane	U		0.0014	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
1,1-Dichloroethane	U		0.0027	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
1,1-Dichloroethene	U		0.0013	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
1,2,4-Trichlorobenzene	U		0.00096	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
1,2-Dibromo-3-chloropropane	U		0.0018	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
1,2-Dibromoethane	U		0.00047	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
1,2-Dichlorobenzene	U		0.00083	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
1,2-Dichloroethane	U		0.00047	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
1,2-Dichloropropane	U		0.00058	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
1,3-Dichlorobenzene	U		0.00068	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
1,4-Dichlorobenzene	U		0.00047	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
2-Butanone	U		0.0025	0.013	mg/Kg-dry	1.01	05/30/18 18:40
2-Hexanone	U		0.0013	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
4-Methyl-2-pentanone	U		0.0011	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Acetone	U		0.0027	0.013	mg/Kg-dry	1.01	05/30/18 18:40
Benzene	U		0.00068	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Bromodichloromethane	U		0.00042	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Bromoform	U		0.00041	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Bromomethane	U		0.00094	0.013	mg/Kg-dry	1.01	05/30/18 18:40
Carbon disulfide	U		0.00073	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Carbon tetrachloride	U		0.0011	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Chlorobenzene	U		0.00042	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Chloroethane	U		0.00083	0.0065	mg/Kg-dry	1.01	05/30/18 18:40

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-6 (4)
Collection Date: 05/23/18 09:30 AM

Work Order: 18051689
Lab ID: 18051689-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.00039	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Chloromethane	U		0.00060	0.013	mg/Kg-dry	1.01	05/30/18 18:40
cis-1,2-Dichloroethene	U		0.00063	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
cis-1,3-Dichloropropene	U		0.00034	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Cyclohexane	U		0.0040	0.013	mg/Kg-dry	1.01	05/30/18 18:40
Dibromochloromethane	U		0.00062	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Dichlorodifluoromethane	U		0.0014	0.013	mg/Kg-dry	1.01	05/30/18 18:40
Ethylbenzene	U		0.00079	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Isopropylbenzene	U		0.00084	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
m,p-Xylene	U		0.0016	0.0033	mg/Kg-dry	1.01	05/30/18 18:40
Methyl acetate	U		0.0016	0.013	mg/Kg-dry	1.01	05/30/18 18:40
Methyl tert-butyl ether	U		0.00030	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Methylcyclohexane	U		0.0020	0.013	mg/Kg-dry	1.01	05/30/18 18:40
Methylene chloride	U		0.0011	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
o-Xylene	U		0.00062	0.0033	mg/Kg-dry	1.01	05/30/18 18:40
Styrene	U		0.00052	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Tetrachloroethene	U		0.0012	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Toluene	U		0.00073	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
trans-1,2-Dichloroethene	U		0.00052	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
trans-1,3-Dichloropropene	U		0.00038	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Trichloroethene	U		0.00094	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Trichlorofluoromethane	U		0.00093	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Vinyl chloride	U		0.00092	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Xylenes, Total	U		0.0022	0.0065	mg/Kg-dry	1.01	05/30/18 18:40
Surr: 1,2-Dichloroethane-d4	*107*			*83-132*	*%REC*	1.01	05/30/18 18:40
Surr: 4-Bromofluorobenzene	*94.9*			*83-111*	*%REC*	1.01	05/30/18 18:40
Surr: Dibromofluoromethane	*65.6*	S		*77-125*	*%REC*	1.01	05/30/18 18:40
Surr: Toluene-d8	*91.9*			*86-108*	*%REC*	1.01	05/30/18 18:40
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**23**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-6 (9)
Collection Date: 05/23/18 09:30 AM

Work Order: 18051689
Lab ID: 18051689-23
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.089**		**0.0026**	**0.026**	**mg/Kg-dry**	1	06/05/18 08:49
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**4.8**		**0.14**	**0.55**	**mg/Kg-dry**	1	06/01/18 23:06
Barium	**79**		**0.22**	**0.55**	**mg/Kg-dry**	1	06/01/18 23:06
Cadmium	U		0.053	1.1	mg/Kg-dry	1	06/01/18 23:06
Chromium	**4.2**		**0.031**	**0.55**	**mg/Kg-dry**	1	06/01/18 23:06
Lead	**17**		**0.12**	**0.55**	**mg/Kg-dry**	1	06/01/18 23:06
Selenium	U		0.31	1.1	mg/Kg-dry	1	06/01/18 23:06
Silver	U		0.068	0.55	mg/Kg-dry	1	06/01/18 23:06
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**30**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-6 (14)
Collection Date: 05/23/18 09:30 AM

Work Order: 18051689
Lab ID: 18051689-24
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.078**		**0.0027**	**0.027**	**mg/Kg-dry**	1	06/05/18 08:51
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**5.1**		**0.16**	**0.60**	**mg/Kg-dry**	1	06/01/18 23:12
Barium	**54**		**0.24**	**0.60**	**mg/Kg-dry**	1	06/01/18 23:12
Cadmium	U		0.058	1.2	mg/Kg-dry	1	06/01/18 23:12
Chromium	**2.6**		**0.034**	**0.60**	**mg/Kg-dry**	1	06/01/18 23:12
Lead	**16**		**0.13**	**0.60**	**mg/Kg-dry**	1	06/01/18 23:12
Selenium	U		0.34	1.2	mg/Kg-dry	1	06/01/18 23:12
Silver	U		0.075	0.60	mg/Kg-dry	1	06/01/18 23:12
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**32**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-7 (0-2)
Collection Date: 05/23/18 10:00 AM

Work Order: 18051689
Lab ID: 18051689-25
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.048**		**0.0023**	**0.023**	**mg/Kg-dry**	1	06/05/18 08:54
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**7.6**		**0.14**	**0.52**	**mg/Kg-dry**	1	06/01/18 23:18
Barium	**240**		**0.21**	**0.52**	**mg/Kg-dry**	1	06/01/18 23:18
Cadmium	**0.34**	J	**0.050**	**1.0**	**mg/Kg-dry**	1	06/01/18 23:18
Chromium	**9.1**		**0.029**	**0.52**	**mg/Kg-dry**	1	06/01/18 23:18
Lead	**12**		**0.11**	**0.52**	**mg/Kg-dry**	1	06/01/18 23:18
Selenium	**0.88**	J	**0.29**	**1.0**	**mg/Kg-dry**	1	06/01/18 23:18
Silver	U		0.065	0.52	mg/Kg-dry	1	06/01/18 23:18
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**22**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-7 (4)
Collection Date: 05/23/18 10:00 AM

Work Order: 18051689
Lab ID: 18051689-26
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 5/25/18		Analyst: **MEB**
DRO (C10-C28)	**4.7**	J	**3.2**	**5.6**	**mg/Kg-dry**	1	05/26/18 12:29
ORO (C28-C40)	**13**		**2.2**	**5.6**	**mg/Kg-dry**	1	05/26/18 12:29
Surr: 4-Terphenyl-d14	*73.1*			*34-130*	*%REC*	1	05/26/18 12:29
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035 / 5/25/18		Analyst: **MEB**
GRO (C6-C10)	U		2.9	6.9	mg/Kg-dry	1	05/25/18 23:33
Surr: Toluene-d8	*105*			*71-123*	*%REC*	1	05/25/18 23:33
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.035**		**0.0020**	**0.020**	**mg/Kg-dry**	1	06/05/18 08:56
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**20**		**0.12**	**0.48**	**mg/Kg-dry**	1	06/01/18 23:48
Barium	**61**		**0.19**	**0.48**	**mg/Kg-dry**	1	06/01/18 23:48
Cadmium	**0.52**	J	**0.046**	**0.96**	**mg/Kg-dry**	1	06/01/18 23:48
Chromium	**13**		**0.027**	**0.48**	**mg/Kg-dry**	1	06/01/18 23:48
Lead	**6.8**		**0.10**	**0.48**	**mg/Kg-dry**	1	06/01/18 23:48
Selenium	**0.72**	J	**0.27**	**0.96**	**mg/Kg-dry**	1	06/01/18 23:48
Silver	U		0.060	0.48	mg/Kg-dry	1	06/01/18 23:48
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 5/30/18		Analyst: **EB**
1,1`-Biphenyl	U		0.0063	0.039	mg/Kg-dry	1	05/30/18 20:02
2,4,5-Trichlorophenol	U		0.011	0.039	mg/Kg-dry	1	05/30/18 20:02
2,4,6-Trichlorophenol	U		0.010	0.039	mg/Kg-dry	1	05/30/18 20:02
2,4-Dichlorophenol	U		0.0082	0.039	mg/Kg-dry	1	05/30/18 20:02
2,4-Dimethylphenol	U		0.0080	0.039	mg/Kg-dry	1	05/30/18 20:02
2,4-Dinitrophenol	U		0.021	0.039	mg/Kg-dry	1	05/30/18 20:02
2,4-Dinitrotoluene	U		0.010	0.039	mg/Kg-dry	1	05/30/18 20:02
2,6-Dinitrotoluene	U		0.0065	0.039	mg/Kg-dry	1	05/30/18 20:02
2-Chloronaphthalene	U		0.0055	0.0078	mg/Kg-dry	1	05/30/18 20:02
2-Chlorophenol	U		0.012	0.039	mg/Kg-dry	1	05/30/18 20:02
2-Methylnaphthalene	U		0.0040	0.0078	mg/Kg-dry	1	05/30/18 20:02
2-Methylphenol	U		0.011	0.039	mg/Kg-dry	1	05/30/18 20:02
2-Nitroaniline	U		0.0090	0.039	mg/Kg-dry	1	05/30/18 20:02
2-Nitrophenol	U		0.011	0.039	mg/Kg-dry	1	05/30/18 20:02
3&4-Methylphenol	U		0.0079	0.039	mg/Kg-dry	1	05/30/18 20:02
3,3´-Dichlorobenzidine	U		0.0058	0.20	mg/Kg-dry	1	05/30/18 20:02
3-Nitroaniline	U		0.0090	0.039	mg/Kg-dry	1	05/30/18 20:02
4,6-Dinitro-2-methylphenol	U		0.0098	0.039	mg/Kg-dry	1	05/30/18 20:02
4-Bromophenyl phenyl ether	U		0.011	0.039	mg/Kg-dry	1	05/30/18 20:02

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-7 (4)
Collection Date: 05/23/18 10:00 AM

Work Order: 18051689
Lab ID: 18051689-26
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloro-3-methylphenol	U		0.011	0.039	mg/Kg-dry	1	05/30/18 20:02
4-Chloroaniline	U		0.0062	0.079	mg/Kg-dry	1	05/30/18 20:02
4-Chlorophenyl phenyl ether	U		0.011	0.039	mg/Kg-dry	1	05/30/18 20:02
4-Nitroaniline	U		0.061	0.20	mg/Kg-dry	1	05/30/18 20:02
4-Nitrophenol	U		0.035	0.039	mg/Kg-dry	1	05/30/18 20:02
Acenaphthene	U		0.0057	0.0078	mg/Kg-dry	1	05/30/18 20:02
Acenaphthylene	U		0.0068	0.0078	mg/Kg-dry	1	05/30/18 20:02
Acetophenone	U		0.0061	0.039	mg/Kg-dry	1	05/30/18 20:02
Anthracene	U		0.0055	0.0078	mg/Kg-dry	1	05/30/18 20:02
Atrazine	U		0.0062	0.039	mg/Kg-dry	1	05/30/18 20:02
Benzaldehyde	U		0.060	0.079	mg/Kg-dry	1	05/30/18 20:02
Benzo(a)anthracene	U		0.0068	0.0078	mg/Kg-dry	1	05/30/18 20:02
Benzo(a)pyrene	U		0.0048	0.0078	mg/Kg-dry	1	05/30/18 20:02
Benzo(b)fluoranthene	U		0.0058	0.0078	mg/Kg-dry	1	05/30/18 20:02
Benzo(g,h,i)perylene	U		0.0060	0.0078	mg/Kg-dry	1	05/30/18 20:02
Benzo(k)fluoranthene	U		0.0059	0.0078	mg/Kg-dry	1	05/30/18 20:02
Bis(2-chloroethoxy)methane	U		0.0038	0.039	mg/Kg-dry	1	05/30/18 20:02
Bis(2-chloroethyl)ether	U		0.011	0.039	mg/Kg-dry	1	05/30/18 20:02
Bis(2-chloroisopropyl)ether	U		0.0092	0.039	mg/Kg-dry	1	05/30/18 20:02
Bis(2-ethylhexyl)phthalate	**0.040**		**0.0068**	**0.039**	**mg/Kg-dry**	1	05/30/18 20:02
Butyl benzyl phthalate	U		0.0066	0.039	mg/Kg-dry	1	05/30/18 20:02
Caprolactam	U		0.013	0.039	mg/Kg-dry	1	05/30/18 20:02
Carbazole	U		0.0042	0.039	mg/Kg-dry	1	05/30/18 20:02
Chrysene	U		0.0063	0.0078	mg/Kg-dry	1	05/30/18 20:02
Dibenzo(a,h)anthracene	U		0.0042	0.0078	mg/Kg-dry	1	05/30/18 20:02
Dibenzofuran	U		0.0057	0.039	mg/Kg-dry	1	05/30/18 20:02
Diethyl phthalate	U		0.0060	0.039	mg/Kg-dry	1	05/30/18 20:02
Dimethyl phthalate	U		0.0076	0.039	mg/Kg-dry	1	05/30/18 20:02
Di-n-butyl phthalate	U		0.0072	0.039	mg/Kg-dry	1	05/30/18 20:02
Di-n-octyl phthalate	U		0.0075	0.039	mg/Kg-dry	1	05/30/18 20:02
Fluoranthene	U		0.0038	0.0078	mg/Kg-dry	1	05/30/18 20:02
Fluorene	U		0.0057	0.0078	mg/Kg-dry	1	05/30/18 20:02
Hexachlorobenzene	U		0.011	0.039	mg/Kg-dry	1	05/30/18 20:02
Hexachlorobutadiene	U		0.021	0.039	mg/Kg-dry	1	05/30/18 20:02
Hexachlorocyclopentadiene	U		0.013	0.039	mg/Kg-dry	1	05/30/18 20:02
Hexachloroethane	U		0.016	0.039	mg/Kg-dry	1	05/30/18 20:02
Indeno(1,2,3-cd)pyrene	U		0.0054	0.0078	mg/Kg-dry	1	05/30/18 20:02
Isophorone	U		0.0076	0.20	mg/Kg-dry	1	05/30/18 20:02
Naphthalene	U		0.0050	0.0078	mg/Kg-dry	1	05/30/18 20:02
Nitrobenzene	U		0.013	0.20	mg/Kg-dry	1	05/30/18 20:02

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-7 (4)
Collection Date: 05/23/18 10:00 AM

Work Order: 18051689
Lab ID: 18051689-26
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		0.0065	0.039	mg/Kg-dry	1	05/30/18 20:02
N-Nitrosodiphenylamine	U		0.0038	0.039	mg/Kg-dry	1	05/30/18 20:02
Pentachlorophenol	U		0.014	0.039	mg/Kg-dry	1	05/30/18 20:02
Phenanthrene	U		0.0036	0.0078	mg/Kg-dry	1	05/30/18 20:02
Phenol	U		0.0097	0.039	mg/Kg-dry	1	05/30/18 20:02
Pyrene	U		0.0014	0.0078	mg/Kg-dry	1	05/30/18 20:02
Surr: 2,4,6-Tribromophenol	*64.8*			*38-92*	*%REC*	1	05/30/18 20:02
Surr: 2-Fluorobiphenyl	*63.1*			*44-107*	*%REC*	1	05/30/18 20:02
Surr: 2-Fluorophenol	*81.2*			*37-109*	*%REC*	1	05/30/18 20:02
Surr: 4-Terphenyl-d14	*72.7*			*52-123*	*%REC*	1	05/30/18 20:02
Surr: Nitrobenzene-d5	*63.0*			*41-94*	*%REC*	1	05/30/18 20:02
Surr: Phenol-d6	*74.9*			*28-111*	*%REC*	1	05/30/18 20:02
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **EMR**
1,1,1-Trichloroethane	U		0.00072	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
1,1,2,2-Tetrachloroethane	U		0.00025	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
1,1,2-Trichloroethane	U		0.00035	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
1,1,2-Trichlorotrifluoroethane	U		0.0010	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
1,1-Dichloroethane	U		0.0019	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
1,1-Dichloroethene	U		0.00089	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
1,2,4-Trichlorobenzene	U		0.00066	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
1,2-Dibromo-3-chloropropane	U		0.0013	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
1,2-Dibromoethane	U		0.00033	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
1,2-Dichlorobenzene	U		0.00057	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
1,2-Dichloroethane	U		0.00033	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
1,2-Dichloropropane	U		0.00040	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
1,3-Dichlorobenzene	U		0.00047	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
1,4-Dichlorobenzene	U		0.00033	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
2-Butanone	**0.0045**	J	**0.0017**	**0.0091**	**mg/Kg-dry**	0.765	05/30/18 17:16
2-Hexanone	U		0.00089	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
4-Methyl-2-pentanone	U		0.00074	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Acetone	**0.021**		**0.0019**	**0.0091**	**mg/Kg-dry**	0.765	05/30/18 17:16
Benzene	U		0.00047	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Bromodichloromethane	U		0.00029	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Bromoform	U		0.00028	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Bromomethane	U		0.00065	0.0091	mg/Kg-dry	0.765	05/30/18 17:16
Carbon disulfide	U		0.00051	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Carbon tetrachloride	U		0.00075	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Chlorobenzene	U		0.00029	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Chloroethane	U		0.00057	0.0045	mg/Kg-dry	0.765	05/30/18 17:16

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-7 (4)
Collection Date: 05/23/18 10:00 AM

Work Order: 18051689
Lab ID: 18051689-26
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.00027	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Chloromethane	U		0.00042	0.0091	mg/Kg-dry	0.765	05/30/18 17:16
cis-1,2-Dichloroethene	U		0.00044	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
cis-1,3-Dichloropropene	U		0.00024	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Cyclohexane	U		0.0028	0.0091	mg/Kg-dry	0.765	05/30/18 17:16
Dibromochloromethane	U		0.00043	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Dichlorodifluoromethane	U		0.00098	0.0091	mg/Kg-dry	0.765	05/30/18 17:16
Ethylbenzene	U		0.00055	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Isopropylbenzene	U		0.00058	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
m,p-Xylene	U		0.0011	0.0023	mg/Kg-dry	0.765	05/30/18 17:16
Methyl acetate	U		0.0011	0.0091	mg/Kg-dry	0.765	05/30/18 17:16
Methyl tert-butyl ether	U		0.00021	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Methylcyclohexane	U		0.0014	0.0091	mg/Kg-dry	0.765	05/30/18 17:16
Methylene chloride	U		0.00078	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
o-Xylene	U		0.00043	0.0023	mg/Kg-dry	0.765	05/30/18 17:16
Styrene	U		0.00036	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Tetrachloroethene	U		0.00081	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Toluene	U		0.00051	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
trans-1,2-Dichloroethene	U		0.00036	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
trans-1,3-Dichloropropene	U		0.00026	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Trichloroethene	U		0.00065	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Trichlorofluoromethane	U		0.00065	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Vinyl chloride	U		0.00064	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Xylenes, Total	U		0.0016	0.0045	mg/Kg-dry	0.765	05/30/18 17:16
Surr: 1,2-Dichloroethane-d4	*106*			*83-132*	*%REC*	0.765	05/30/18 17:16
Surr: 4-Bromofluorobenzene	*98.8*			*83-111*	*%REC*	0.765	05/30/18 17:16
Surr: Dibromofluoromethane	*61.8*	S		*77-125*	*%REC*	0.765	05/30/18 17:16
Surr: Toluene-d8	*92.6*			*86-108*	*%REC*	0.765	05/30/18 17:16
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**16**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-7 (9)
Collection Date: 05/23/18 10:00 AM

Work Order: 18051689
Lab ID: 18051689-27
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.065**		**0.0026**	**0.026**	**mg/Kg-dry**	1	06/05/18 08:59
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**8.4**		**0.15**	**0.59**	**mg/Kg-dry**	1	06/01/18 23:55
Barium	**130**		**0.24**	**0.59**	**mg/Kg-dry**	1	06/01/18 23:55
Cadmium	**0.15**	J	**0.057**	**1.2**	**mg/Kg-dry**	1	06/01/18 23:55
Chromium	**4.5**		**0.033**	**0.59**	**mg/Kg-dry**	1	06/01/18 23:55
Lead	**20**		**0.13**	**0.59**	**mg/Kg-dry**	1	06/01/18 23:55
Selenium	U		0.33	1.2	mg/Kg-dry	1	06/01/18 23:55
Silver	U		0.073	0.59	mg/Kg-dry	1	06/01/18 23:55
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**31**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-7 (14)
Collection Date: 05/23/18 10:00 AM

Work Order: 18051689
Lab ID: 18051689-28
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.061**		**0.0029**	**0.029**	**mg/Kg-dry**	1	06/05/18 09:09
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**3.8**		**0.16**	**0.61**	**mg/Kg-dry**	1	06/02/18
Barium	**55**		**0.24**	**0.61**	**mg/Kg-dry**	1	06/02/18
Cadmium	U		0.058	1.2	mg/Kg-dry	1	06/02/18
Chromium	**0.92**		**0.034**	**0.61**	**mg/Kg-dry**	1	06/02/18
Lead	**20**		**0.13**	**0.61**	**mg/Kg-dry**	1	06/02/18
Selenium	**0.61**	J	**0.34**	**1.2**	**mg/Kg-dry**	1	06/02/18
Silver	U		0.075	0.61	mg/Kg-dry	1	06/02/18
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**33**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-8 (0-2)
Collection Date: 05/23/18 10:30 AM

Work Order: 18051689
Lab ID: 18051689-29
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.016**	J	**0.0023**	**0.023**	**mg/Kg-dry**	1	06/05/18 09:12
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**4.6**		**0.11**	**0.43**	**mg/Kg-dry**	1	06/02/18 00:06
Barium	**200**		**0.17**	**0.43**	**mg/Kg-dry**	1	06/02/18 00:06
Cadmium	**0.46**	J	**0.042**	**0.87**	**mg/Kg-dry**	1	06/02/18 00:06
Chromium	**8.1**		**0.024**	**0.43**	**mg/Kg-dry**	1	06/02/18 00:06
Lead	**7.7**		**0.092**	**0.43**	**mg/Kg-dry**	1	06/02/18 00:06
Selenium	**0.65**	J	**0.24**	**0.87**	**mg/Kg-dry**	1	06/02/18 00:06
Silver	U		0.054	0.43	mg/Kg-dry	1	06/02/18 00:06
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**16**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-8 (4)
Collection Date: 05/23/18 10:30 AM

Work Order: 18051689
Lab ID: 18051689-30
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 5/25/18		Analyst: **MEB**
DRO (C10-C28)	**5.3**	J	**4.1**	**7.2**	**mg/Kg-dry**	1	05/26/18 12:58
ORO (C28-C40)	**9.6**		**2.8**	**7.2**	**mg/Kg-dry**	1	05/26/18 12:58
Surr: 4-Terphenyl-d14	*65.1*			*34-130*	*%REC*	1	05/26/18 12:58
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035 / 5/25/18		Analyst: **MEB**
GRO (C6-C10)	U		4.0	9.5	mg/Kg-dry	1	05/26/18 01:02
Surr: Toluene-d8	*105*			*71-123*	*%REC*	1	05/26/18 01:02
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.13**		**0.0026**	**0.026**	**mg/Kg-dry**	1	06/05/18 09:14
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**3.7**		**0.12**	**0.47**	**mg/Kg-dry**	1	06/02/18 00:13
Barium	**39**		**0.19**	**0.47**	**mg/Kg-dry**	1	06/02/18 00:13
Cadmium	U		0.045	0.94	mg/Kg-dry	1	06/02/18 00:13
Chromium	**3.2**		**0.026**	**0.47**	**mg/Kg-dry**	1	06/02/18 00:13
Lead	**13**		**0.10**	**0.47**	**mg/Kg-dry**	1	06/02/18 00:13
Selenium	**1.4**		**0.26**	**0.94**	**mg/Kg-dry**	1	06/02/18 00:13
Silver	U		0.058	0.47	mg/Kg-dry	1	06/02/18 00:13
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 5/30/18		Analyst: **EB**
1,1`-Biphenyl	U		0.0077	0.047	mg/Kg-dry	1	05/30/18 20:26
2,4,5-Trichlorophenol	U		0.013	0.047	mg/Kg-dry	1	05/30/18 20:26
2,4,6-Trichlorophenol	U		0.013	0.047	mg/Kg-dry	1	05/30/18 20:26
2,4-Dichlorophenol	U		0.010	0.047	mg/Kg-dry	1	05/30/18 20:26
2,4-Dimethylphenol	U		0.0097	0.047	mg/Kg-dry	1	05/30/18 20:26
2,4-Dinitrophenol	U		0.026	0.047	mg/Kg-dry	1	05/30/18 20:26
2,4-Dinitrotoluene	U		0.012	0.047	mg/Kg-dry	1	05/30/18 20:26
2,6-Dinitrotoluene	U		0.0079	0.047	mg/Kg-dry	1	05/30/18 20:26
2-Chloronaphthalene	U		0.0067	0.0095	mg/Kg-dry	1	05/30/18 20:26
2-Chlorophenol	U		0.015	0.047	mg/Kg-dry	1	05/30/18 20:26
2-Methylnaphthalene	U		0.0048	0.0095	mg/Kg-dry	1	05/30/18 20:26
2-Methylphenol	U		0.013	0.047	mg/Kg-dry	1	05/30/18 20:26
2-Nitroaniline	U		0.011	0.047	mg/Kg-dry	1	05/30/18 20:26
2-Nitrophenol	U		0.014	0.047	mg/Kg-dry	1	05/30/18 20:26
3&4-Methylphenol	U		0.0096	0.047	mg/Kg-dry	1	05/30/18 20:26
3,3´-Dichlorobenzidine	U		0.0071	0.24	mg/Kg-dry	1	05/30/18 20:26
3-Nitroaniline	U		0.011	0.047	mg/Kg-dry	1	05/30/18 20:26
4,6-Dinitro-2-methylphenol	U		0.012	0.047	mg/Kg-dry	1	05/30/18 20:26
4-Bromophenyl phenyl ether	U		0.013	0.047	mg/Kg-dry	1	05/30/18 20:26

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-8 (4)
Collection Date: 05/23/18 10:30 AM

Work Order: 18051689
Lab ID: 18051689-30
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloro-3-methylphenol	U		0.014	0.047	mg/Kg-dry	1	05/30/18 20:26
4-Chloroaniline	U		0.0075	0.096	mg/Kg-dry	1	05/30/18 20:26
4-Chlorophenyl phenyl ether	U		0.013	0.047	mg/Kg-dry	1	05/30/18 20:26
4-Nitroaniline	U		0.074	0.24	mg/Kg-dry	1	05/30/18 20:26
4-Nitrophenol	U		0.043	0.047	mg/Kg-dry	1	05/30/18 20:26
Acenaphthene	U		0.0069	0.0095	mg/Kg-dry	1	05/30/18 20:26
Acenaphthylene	U		0.0083	0.0095	mg/Kg-dry	1	05/30/18 20:26
Acetophenone	U		0.0075	0.047	mg/Kg-dry	1	05/30/18 20:26
Anthracene	U		0.0067	0.0095	mg/Kg-dry	1	05/30/18 20:26
Atrazine	U		0.0075	0.047	mg/Kg-dry	1	05/30/18 20:26
Benzaldehyde	U		0.073	0.096	mg/Kg-dry	1	05/30/18 20:26
Benzo(a)anthracene	U		0.0082	0.0095	mg/Kg-dry	1	05/30/18 20:26
Benzo(a)pyrene	U		0.0058	0.0095	mg/Kg-dry	1	05/30/18 20:26
Benzo(b)fluoranthene	U		0.0071	0.0095	mg/Kg-dry	1	05/30/18 20:26
Benzo(g,h,i)perylene	U		0.0073	0.0095	mg/Kg-dry	1	05/30/18 20:26
Benzo(k)fluoranthene	U		0.0072	0.0095	mg/Kg-dry	1	05/30/18 20:26
Bis(2-chloroethoxy)methane	U		0.0046	0.047	mg/Kg-dry	1	05/30/18 20:26
Bis(2-chloroethyl)ether	U		0.013	0.047	mg/Kg-dry	1	05/30/18 20:26
Bis(2-chloroisopropyl)ether	U		0.011	0.047	mg/Kg-dry	1	05/30/18 20:26
Bis(2-ethylhexyl)phthalate	**0.075**		**0.0083**	**0.047**	**mg/Kg-dry**	1	05/30/18 20:26
Butyl benzyl phthalate	U		0.0081	0.047	mg/Kg-dry	1	05/30/18 20:26
Caprolactam	U		0.016	0.047	mg/Kg-dry	1	05/30/18 20:26
Carbazole	U		0.0051	0.047	mg/Kg-dry	1	05/30/18 20:26
Chrysene	U		0.0077	0.0095	mg/Kg-dry	1	05/30/18 20:26
Dibenzo(a,h)anthracene	U		0.0051	0.0095	mg/Kg-dry	1	05/30/18 20:26
Dibenzofuran	U		0.0070	0.047	mg/Kg-dry	1	05/30/18 20:26
Diethyl phthalate	U		0.0073	0.047	mg/Kg-dry	1	05/30/18 20:26
Dimethyl phthalate	U		0.0093	0.047	mg/Kg-dry	1	05/30/18 20:26
Di-n-butyl phthalate	U		0.0087	0.047	mg/Kg-dry	1	05/30/18 20:26
Di-n-octyl phthalate	U		0.0091	0.047	mg/Kg-dry	1	05/30/18 20:26
Fluoranthene	U		0.0046	0.0095	mg/Kg-dry	1	05/30/18 20:26
Fluorene	U		0.0069	0.0095	mg/Kg-dry	1	05/30/18 20:26
Hexachlorobenzene	U		0.014	0.047	mg/Kg-dry	1	05/30/18 20:26
Hexachlorobutadiene	U		0.026	0.047	mg/Kg-dry	1	05/30/18 20:26
Hexachlorocyclopentadiene	U		0.016	0.047	mg/Kg-dry	1	05/30/18 20:26
Hexachloroethane	U		0.020	0.047	mg/Kg-dry	1	05/30/18 20:26
Indeno(1,2,3-cd)pyrene	U		0.0066	0.0095	mg/Kg-dry	1	05/30/18 20:26
Isophorone	U		0.0093	0.24	mg/Kg-dry	1	05/30/18 20:26
Naphthalene	U		0.0061	0.0095	mg/Kg-dry	1	05/30/18 20:26
Nitrobenzene	U		0.016	0.24	mg/Kg-dry	1	05/30/18 20:26

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-8 (4)
Collection Date: 05/23/18 10:30 AM

Work Order: 18051689
Lab ID: 18051689-30
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		0.0079	0.047	mg/Kg-dry	1	05/30/18 20:26
N-Nitrosodiphenylamine	U		0.0046	0.047	mg/Kg-dry	1	05/30/18 20:26
Pentachlorophenol	U		0.018	0.047	mg/Kg-dry	1	05/30/18 20:26
Phenanthrene	U		0.0044	0.0095	mg/Kg-dry	1	05/30/18 20:26
Phenol	U		0.012	0.047	mg/Kg-dry	1	05/30/18 20:26
Pyrene	U		0.0017	0.0095	mg/Kg-dry	1	05/30/18 20:26
Surr: 2,4,6-Tribromophenol	*53.3*			*38-92*	*%REC*	1	05/30/18 20:26
Surr: 2-Fluorobiphenyl	*46.5*			*44-107*	*%REC*	1	05/30/18 20:26
Surr: 2-Fluorophenol	*62.1*			*37-109*	*%REC*	1	05/30/18 20:26
Surr: 4-Terphenyl-d14	*56.5*			*52-123*	*%REC*	1	05/30/18 20:26
Surr: Nitrobenzene-d5	*46.1*			*41-94*	*%REC*	1	05/30/18 20:26
Surr: Phenol-d6	*54.9*			*28-111*	*%REC*	1	05/30/18 20:26
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **EMR**
1,1,1-Trichloroethane	U		0.0010	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
1,1,2,2-Tetrachloroethane	U		0.00035	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
1,1,2-Trichloroethane	U		0.00051	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
1,1,2-Trichlorotrifluoroethane	U		0.0014	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
1,1-Dichloroethane	U		0.0027	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
1,1-Dichloroethene	U		0.0013	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
1,2,4-Trichlorobenzene	U		0.00095	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
1,2-Dibromo-3-chloropropane	U		0.0018	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
1,2-Dibromoethane	U		0.00047	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
1,2-Dichlorobenzene	U		0.00082	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
1,2-Dichloroethane	U		0.00047	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
1,2-Dichloropropane	U		0.00057	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
1,3-Dichlorobenzene	U		0.00068	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
1,4-Dichlorobenzene	U		0.00047	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
2-Butanone	**0.012**	J	**0.0025**	**0.013**	**mg/Kg-dry**	0.904	05/30/18 17:32
2-Hexanone	U		0.0013	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
4-Methyl-2-pentanone	U		0.0011	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Acetone	**0.043**		**0.0027**	**0.013**	**mg/Kg-dry**	0.904	05/30/18 17:32
Benzene	U		0.00068	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Bromodichloromethane	U		0.00042	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Bromoform	U		0.00040	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Bromomethane	U		0.00094	0.013	mg/Kg-dry	0.904	05/30/18 17:32
Carbon disulfide	U		0.00073	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Carbon tetrachloride	U		0.0011	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Chlorobenzene	U		0.00042	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Chloroethane	U		0.00082	0.0065	mg/Kg-dry	0.904	05/30/18 17:32

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-8 (4)
Collection Date: 05/23/18 10:30 AM

Work Order: 18051689
Lab ID: 18051689-30
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.00039	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Chloromethane	U		0.00060	0.013	mg/Kg-dry	0.904	05/30/18 17:32
cis-1,2-Dichloroethene	U		0.00063	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
cis-1,3-Dichloropropene	U		0.00034	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Cyclohexane	U		0.0040	0.013	mg/Kg-dry	0.904	05/30/18 17:32
Dibromochloromethane	U		0.00061	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Dichlorodifluoromethane	U		0.0014	0.013	mg/Kg-dry	0.904	05/30/18 17:32
Ethylbenzene	U		0.00078	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Isopropylbenzene	U		0.00084	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
m,p-Xylene	U		0.0016	0.0033	mg/Kg-dry	0.904	05/30/18 17:32
Methyl acetate	U		0.0016	0.013	mg/Kg-dry	0.904	05/30/18 17:32
Methyl tert-butyl ether	U		0.00030	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Methylcyclohexane	U		0.0019	0.013	mg/Kg-dry	0.904	05/30/18 17:32
Methylene chloride	U		0.0011	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
o-Xylene	U		0.00061	0.0033	mg/Kg-dry	0.904	05/30/18 17:32
Styrene	U		0.00052	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Tetrachloroethene	U		0.0012	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Toluene	U		0.00073	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
trans-1,2-Dichloroethene	U		0.00052	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
trans-1,3-Dichloropropene	U		0.00038	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Trichloroethene	U		0.00094	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Trichlorofluoromethane	U		0.00093	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Vinyl chloride	U		0.00091	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Xylenes, Total	U		0.0022	0.0065	mg/Kg-dry	0.904	05/30/18 17:32
Surr: 1,2-Dichloroethane-d4	*105*			*83-132*	*%REC*	0.904	05/30/18 17:32
Surr: 4-Bromofluorobenzene	*97.7*			*83-111*	*%REC*	0.904	05/30/18 17:32
Surr: Dibromofluoromethane	*65.8*	S		*77-125*	*%REC*	0.904	05/30/18 17:32
Surr: Toluene-d8	*90.8*			*86-108*	*%REC*	0.904	05/30/18 17:32
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**31**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-8 (9)
Collection Date: 05/23/18 10:30 AM

Work Order: 18051689
Lab ID: 18051689-31
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.18**		**0.0026**	**0.026**	**mg/Kg-dry**	1	06/05/18 09:17
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**12**		**1.1**	**4.3**	**mg/Kg-dry**	10	06/04/18 12:12
Barium	**130**		**0.17**	**0.43**	**mg/Kg-dry**	1	06/02/18 00:18
Cadmium	U		0.041	0.86	mg/Kg-dry	1	06/02/18 00:18
Chromium	**4.2**	J	**0.24**	**4.3**	**mg/Kg-dry**	10	06/04/18 12:12
Lead	**25**		**0.91**	**4.3**	**mg/Kg-dry**	10	06/04/18 12:12
Selenium	U		2.4	8.6	mg/Kg-dry	10	06/04/18 12:12
Silver	U		0.053	0.43	mg/Kg-dry	1	06/02/18 00:18
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**27**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-8 (14)
Collection Date: 05/23/18 10:30 AM

Work Order: 18051689
Lab ID: 18051689-32
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.31**		**0.0027**	**0.027**	**mg/Kg-dry**	1	06/05/18 09:19
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**4.2**		**0.14**	**0.55**	**mg/Kg-dry**	1	06/02/18 00:24
Barium	**39**		**0.22**	**0.55**	**mg/Kg-dry**	1	06/02/18 00:24
Cadmium	**0.85**	J	**0.053**	**1.1**	**mg/Kg-dry**	1	06/02/18 00:24
Chromium	**2.1**		**0.031**	**0.55**	**mg/Kg-dry**	1	06/02/18 00:24
Lead	**21**		**0.12**	**0.55**	**mg/Kg-dry**	1	06/02/18 00:24
Selenium	**9.8**		**0.31**	**1.1**	**mg/Kg-dry**	1	06/02/18 00:24
Silver	U		0.068	0.55	mg/Kg-dry	1	06/02/18 00:24
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**30**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-9 (0-2)
Collection Date: 05/23/18 11:05 AM

Work Order: 18051689
Lab ID: 18051689-33
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.021**	J	**0.0022**	**0.022**	**mg/Kg-dry**	1	06/05/18 09:27
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**6.7**		**0.11**	**0.44**	**mg/Kg-dry**	1	06/02/18 00:30
Barium	**160**		**0.18**	**0.44**	**mg/Kg-dry**	1	06/02/18 00:30
Cadmium	**0.28**	J	**0.042**	**0.88**	**mg/Kg-dry**	1	06/02/18 00:30
Chromium	**7.5**		**0.025**	**0.44**	**mg/Kg-dry**	1	06/02/18 00:30
Lead	**8.1**		**0.093**	**0.44**	**mg/Kg-dry**	1	06/02/18 00:30
Selenium	**0.64**	J	**0.25**	**0.88**	**mg/Kg-dry**	1	06/02/18 00:30
Silver	U		0.054	0.44	mg/Kg-dry	1	06/02/18 00:30
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**17**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-9 (4)
Collection Date: 05/23/18 11:05 AM

Work Order: 18051689
Lab ID: 18051689-34
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 5/25/18		Analyst: **MEB**
DRO (C10-C28)	U		3.9	6.8	mg/Kg-dry	1	05/26/18 01:56
ORO (C28-C40)	**6.4**	J	**2.6**	**6.8**	**mg/Kg-dry**	1	05/26/18 01:56
Surr: 4-Terphenyl-d14	*64.6*			*34-130*	*%REC*	1	05/26/18 01:56
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035 / 5/25/18		Analyst: **MEB**
GRO (C6-C10)	U		4.2	10	mg/Kg-dry	1	05/26/18 01:32
Surr: Toluene-d8	*105*			*71-123*	*%REC*	1	05/26/18 01:32
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.11**		**0.0026**	**0.026**	**mg/Kg-dry**	1	06/05/18 09:29
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**17**		**0.15**	**0.58**	**mg/Kg-dry**	1	06/02/18 00:36
Barium	**69**		**0.23**	**0.58**	**mg/Kg-dry**	1	06/02/18 00:36
Cadmium	**0.47**	J	**0.056**	**1.2**	**mg/Kg-dry**	1	06/02/18 00:36
Chromium	**3.6**		**0.033**	**0.58**	**mg/Kg-dry**	1	06/02/18 00:36
Lead	**35**		**0.12**	**0.58**	**mg/Kg-dry**	1	06/02/18 00:36
Selenium	**1.3**		**0.33**	**1.2**	**mg/Kg-dry**	1	06/02/18 00:36
Silver	U		0.072	0.58	mg/Kg-dry	1	06/02/18 00:36
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 5/30/18		Analyst: **EB**
1,1`-Biphenyl	U		0.0075	0.046	mg/Kg-dry	1	05/30/18 20:51
2,4,5-Trichlorophenol	U		0.013	0.046	mg/Kg-dry	1	05/30/18 20:51
2,4,6-Trichlorophenol	U		0.012	0.046	mg/Kg-dry	1	05/30/18 20:51
2,4-Dichlorophenol	U		0.0097	0.046	mg/Kg-dry	1	05/30/18 20:51
2,4-Dimethylphenol	U		0.0094	0.046	mg/Kg-dry	1	05/30/18 20:51
2,4-Dinitrophenol	U		0.025	0.046	mg/Kg-dry	1	05/30/18 20:51
2,4-Dinitrotoluene	U		0.012	0.046	mg/Kg-dry	1	05/30/18 20:51
2,6-Dinitrotoluene	U		0.0076	0.046	mg/Kg-dry	1	05/30/18 20:51
2-Chloronaphthalene	U		0.0064	0.0092	mg/Kg-dry	1	05/30/18 20:51
2-Chlorophenol	U		0.015	0.046	mg/Kg-dry	1	05/30/18 20:51
2-Methylnaphthalene	U		0.0047	0.0092	mg/Kg-dry	1	05/30/18 20:51
2-Methylphenol	U		0.012	0.046	mg/Kg-dry	1	05/30/18 20:51
2-Nitroaniline	U		0.011	0.046	mg/Kg-dry	1	05/30/18 20:51
2-Nitrophenol	U		0.013	0.046	mg/Kg-dry	1	05/30/18 20:51
3&4-Methylphenol	U		0.0093	0.046	mg/Kg-dry	1	05/30/18 20:51
3,3´-Dichlorobenzidine	U		0.0068	0.23	mg/Kg-dry	1	05/30/18 20:51
3-Nitroaniline	U		0.011	0.046	mg/Kg-dry	1	05/30/18 20:51
4,6-Dinitro-2-methylphenol	U		0.012	0.046	mg/Kg-dry	1	05/30/18 20:51
4-Bromophenyl phenyl ether	U		0.012	0.046	mg/Kg-dry	1	05/30/18 20:51

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-9 (4)
Collection Date: 05/23/18 11:05 AM

Work Order: 18051689
Lab ID: 18051689-34
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloro-3-methylphenol	U		0.013	0.046	mg/Kg-dry	1	05/30/18 20:51
4-Chloroaniline	U		0.0073	0.093	mg/Kg-dry	1	05/30/18 20:51
4-Chlorophenyl phenyl ether	U		0.013	0.046	mg/Kg-dry	1	05/30/18 20:51
4-Nitroaniline	U		0.071	0.23	mg/Kg-dry	1	05/30/18 20:51
4-Nitrophenol	U		0.041	0.046	mg/Kg-dry	1	05/30/18 20:51
Acenaphthene	U		0.0067	0.0092	mg/Kg-dry	1	05/30/18 20:51
Acenaphthylene	U		0.0080	0.0092	mg/Kg-dry	1	05/30/18 20:51
Acetophenone	U		0.0072	0.046	mg/Kg-dry	1	05/30/18 20:51
Anthracene	U		0.0065	0.0092	mg/Kg-dry	1	05/30/18 20:51
Atrazine	U		0.0073	0.046	mg/Kg-dry	1	05/30/18 20:51
Benzaldehyde	U		0.071	0.093	mg/Kg-dry	1	05/30/18 20:51
Benzo(a)anthracene	U		0.0080	0.0092	mg/Kg-dry	1	05/30/18 20:51
Benzo(a)pyrene	U		0.0057	0.0092	mg/Kg-dry	1	05/30/18 20:51
Benzo(b)fluoranthene	U		0.0069	0.0092	mg/Kg-dry	1	05/30/18 20:51
Benzo(g,h,i)perylene	U		0.0071	0.0092	mg/Kg-dry	1	05/30/18 20:51
Benzo(k)fluoranthene	U		0.0070	0.0092	mg/Kg-dry	1	05/30/18 20:51
Bis(2-chloroethoxy)methane	U		0.0044	0.046	mg/Kg-dry	1	05/30/18 20:51
Bis(2-chloroethyl)ether	U		0.013	0.046	mg/Kg-dry	1	05/30/18 20:51
Bis(2-chloroisopropyl)ether	U		0.011	0.046	mg/Kg-dry	1	05/30/18 20:51
Bis(2-ethylhexyl)phthalate	**0.045**	J	**0.0080**	**0.046**	**mg/Kg-dry**	1	05/30/18 20:51
Butyl benzyl phthalate	U		0.0078	0.046	mg/Kg-dry	1	05/30/18 20:51
Caprolactam	U		0.016	0.046	mg/Kg-dry	1	05/30/18 20:51
Carbazole	U		0.0050	0.046	mg/Kg-dry	1	05/30/18 20:51
Chrysene	U		0.0075	0.0092	mg/Kg-dry	1	05/30/18 20:51
Dibenzo(a,h)anthracene	U		0.0050	0.0092	mg/Kg-dry	1	05/30/18 20:51
Dibenzofuran	U		0.0068	0.046	mg/Kg-dry	1	05/30/18 20:51
Diethyl phthalate	U		0.0070	0.046	mg/Kg-dry	1	05/30/18 20:51
Dimethyl phthalate	U		0.0090	0.046	mg/Kg-dry	1	05/30/18 20:51
Di-n-butyl phthalate	U		0.0084	0.046	mg/Kg-dry	1	05/30/18 20:51
Di-n-octyl phthalate	U		0.0088	0.046	mg/Kg-dry	1	05/30/18 20:51
Fluoranthene	U		0.0044	0.0092	mg/Kg-dry	1	05/30/18 20:51
Fluorene	U		0.0067	0.0092	mg/Kg-dry	1	05/30/18 20:51
Hexachlorobenzene	U		0.013	0.046	mg/Kg-dry	1	05/30/18 20:51
Hexachlorobutadiene	U		0.025	0.046	mg/Kg-dry	1	05/30/18 20:51
Hexachlorocyclopentadiene	U		0.016	0.046	mg/Kg-dry	1	05/30/18 20:51
Hexachloroethane	U		0.019	0.046	mg/Kg-dry	1	05/30/18 20:51
Indeno(1,2,3-cd)pyrene	U		0.0064	0.0092	mg/Kg-dry	1	05/30/18 20:51
Isophorone	U		0.0090	0.23	mg/Kg-dry	1	05/30/18 20:51
Naphthalene	U		0.0059	0.0092	mg/Kg-dry	1	05/30/18 20:51
Nitrobenzene	U		0.015	0.23	mg/Kg-dry	1	05/30/18 20:51

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-9 (4)
Collection Date: 05/23/18 11:05 AM

Work Order: 18051689
Lab ID: 18051689-34
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		0.0076	0.046	mg/Kg-dry	1	05/30/18 20:51
N-Nitrosodiphenylamine	U		0.0044	0.046	mg/Kg-dry	1	05/30/18 20:51
Pentachlorophenol	U		0.017	0.046	mg/Kg-dry	1	05/30/18 20:51
Phenanthrene	U		0.0043	0.0092	mg/Kg-dry	1	05/30/18 20:51
Phenol	U		0.011	0.046	mg/Kg-dry	1	05/30/18 20:51
Pyrene	U		0.0017	0.0092	mg/Kg-dry	1	05/30/18 20:51
Surr: 2,4,6-Tribromophenol	*43.6*			*38-92*	*%REC*	1	05/30/18 20:51
Surr: 2-Fluorobiphenyl	*43.5*	S		*44-107*	*%REC*	1	05/30/18 20:51
Surr: 2-Fluorophenol	*56.9*			*37-109*	*%REC*	1	05/30/18 20:51
Surr: 4-Terphenyl-d14	*51.4*	S		*52-123*	*%REC*	1	05/30/18 20:51
Surr: Nitrobenzene-d5	*45.5*			*41-94*	*%REC*	1	05/30/18 20:51
Surr: Phenol-d6	*50.0*			*28-111*	*%REC*	1	05/30/18 20:51
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **EMR**
1,1,1-Trichloroethane	U		0.0011	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
1,1,2,2-Tetrachloroethane	U		0.00037	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
1,1,2-Trichloroethane	U		0.00054	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
1,1,2-Trichlorotrifluoroethane	U		0.0015	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
1,1-Dichloroethane	U		0.0029	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
1,1-Dichloroethene	U		0.0014	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
1,2,4-Trichlorobenzene	U		0.0010	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
1,2-Dibromo-3-chloropropane	U		0.0019	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
1,2-Dibromoethane	U		0.00050	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
1,2-Dichlorobenzene	U		0.00087	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
1,2-Dichloroethane	U		0.00050	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
1,2-Dichloropropane	U		0.00061	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
1,3-Dichlorobenzene	U		0.00072	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
1,4-Dichlorobenzene	U		0.00050	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
2-Butanone	U		0.0026	0.014	mg/Kg-dry	0.984	05/30/18 17:49
2-Hexanone	U		0.0014	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
4-Methyl-2-pentanone	U		0.0011	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Acetone	**0.0093**	J	**0.0029**	**0.014**	**mg/Kg-dry**	0.984	05/30/18 17:49
Benzene	U		0.00072	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Bromodichloromethane	U		0.00044	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Bromoform	U		0.00043	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Bromomethane	U		0.0010	0.014	mg/Kg-dry	0.984	05/30/18 17:49
Carbon disulfide	U		0.00078	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Carbon tetrachloride	U		0.0012	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Chlorobenzene	U		0.00044	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Chloroethane	U		0.00087	0.0069	mg/Kg-dry	0.984	05/30/18 17:49

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-9 (4)
Collection Date: 05/23/18 11:05 AM

Work Order: 18051689
Lab ID: 18051689-34
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.00042	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Chloromethane	U		0.00064	0.014	mg/Kg-dry	0.984	05/30/18 17:49
cis-1,2-Dichloroethene	U		0.00067	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
cis-1,3-Dichloropropene	U		0.00036	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Cyclohexane	U		0.0042	0.014	mg/Kg-dry	0.984	05/30/18 17:49
Dibromochloromethane	U		0.00065	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Dichlorodifluoromethane	U		0.0015	0.014	mg/Kg-dry	0.984	05/30/18 17:49
Ethylbenzene	U		0.00083	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Isopropylbenzene	U		0.00089	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
m,p-Xylene	U		0.0017	0.0035	mg/Kg-dry	0.984	05/30/18 17:49
Methyl acetate	U		0.0017	0.014	mg/Kg-dry	0.984	05/30/18 17:49
Methyl tert-butyl ether	U		0.00032	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Methylcyclohexane	U		0.0021	0.014	mg/Kg-dry	0.984	05/30/18 17:49
Methylene chloride	U		0.0012	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
o-Xylene	U		0.00065	0.0035	mg/Kg-dry	0.984	05/30/18 17:49
Styrene	U		0.00056	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Tetrachloroethene	U		0.0012	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Toluene	U		0.00078	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
trans-1,2-Dichloroethene	U		0.00056	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
trans-1,3-Dichloropropene	U		0.00040	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Trichloroethene	U		0.0010	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Trichlorofluoromethane	U		0.00099	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Vinyl chloride	U		0.00097	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Xylenes, Total	U		0.0024	0.0069	mg/Kg-dry	0.984	05/30/18 17:49
Surr: 1,2-Dichloroethane-d4	*109*			*83-132*	*%REC*	0.984	05/30/18 17:49
Surr: 4-Bromofluorobenzene	*96.6*			*83-111*	*%REC*	0.984	05/30/18 17:49
Surr: Dibromofluoromethane	*61.4*	S		*77-125*	*%REC*	0.984	05/30/18 17:49
Surr: Toluene-d8	*89.2*			*86-108*	*%REC*	0.984	05/30/18 17:49
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**29**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-9 (9)
Collection Date: 05/23/18 11:05 AM

Work Order: 18051689
Lab ID: 18051689-35
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.15**		**0.0024**	**0.024**	**mg/Kg-dry**	1	06/05/18 09:32
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**2.0**		**0.12**	**0.45**	**mg/Kg-dry**	1	06/02/18 00:42
Barium	**100**		**0.18**	**0.45**	**mg/Kg-dry**	1	06/02/18 00:42
Cadmium	U		0.043	0.90	mg/Kg-dry	1	06/02/18 00:42
Chromium	**3.4**		**0.025**	**0.45**	**mg/Kg-dry**	1	06/02/18 00:42
Lead	**12**		**0.096**	**0.45**	**mg/Kg-dry**	1	06/02/18 00:42
Selenium	**0.72**	J	**0.25**	**0.90**	**mg/Kg-dry**	1	06/02/18 00:42
Silver	U		0.056	0.45	mg/Kg-dry	1	06/02/18 00:42
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**27**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-9 (14)
Collection Date: 05/23/18 11:05 AM

Work Order: 18051689
Lab ID: 18051689-36
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.088**		**0.0026**	**0.026**	**mg/Kg-dry**	1	06/05/18 09:42
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**11**		**0.12**	**0.45**	**mg/Kg-dry**	1	06/02/18 01:18
Barium	**110**		**0.18**	**0.45**	**mg/Kg-dry**	1	06/02/18 01:18
Cadmium	**0.13**	J	**0.043**	**0.89**	**mg/Kg-dry**	1	06/02/18 01:18
Chromium	**4.0**		**0.025**	**0.45**	**mg/Kg-dry**	1	06/02/18 01:18
Lead	**34**		**0.095**	**0.45**	**mg/Kg-dry**	1	06/02/18 01:18
Selenium	**0.55**	J	**0.25**	**0.89**	**mg/Kg-dry**	1	06/02/18 01:18
Silver	U		0.055	0.45	mg/Kg-dry	1	06/02/18 01:18
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**28**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-10 (0-2)
Collection Date: 05/23/18 11:30 AM

Work Order: 18051689
Lab ID: 18051689-37
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.038**		**0.0022**	**0.022**	**mg/Kg-dry**	1	06/05/18 09:45
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**6.5**		**0.11**	**0.44**	**mg/Kg-dry**	1	06/02/18 01:24
Barium	**190**		**0.18**	**0.44**	**mg/Kg-dry**	1	06/02/18 01:24
Cadmium	**0.32**	J	**0.042**	**0.88**	**mg/Kg-dry**	1	06/02/18 01:24
Chromium	**8.1**		**0.025**	**0.44**	**mg/Kg-dry**	1	06/02/18 01:24
Lead	**7.7**		**0.093**	**0.44**	**mg/Kg-dry**	1	06/02/18 01:24
Selenium	**0.58**	J	**0.25**	**0.88**	**mg/Kg-dry**	1	06/02/18 01:24
Silver	U		0.054	0.44	mg/Kg-dry	1	06/02/18 01:24
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**16**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-10 (4)
Collection Date: 05/23/18 11:30 AM

Work Order: 18051689
Lab ID: 18051689-38
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 5/25/18		Analyst: **MEB**
DRO (C10-C28)	**5.1**	J	**3.6**	**6.2**	**mg/Kg-dry**	1	05/26/18 02:25
ORO (C28-C40)	**9.9**		**2.4**	**6.2**	**mg/Kg-dry**	1	05/26/18 02:25
Surr: 4-Terphenyl-d14	*69.1*			*34-130*	*%REC*	1	05/26/18 02:25
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035 / 5/25/18		Analyst: **MEB**
GRO (C6-C10)	U		3.2	7.7	mg/Kg-dry	1	05/26/18 02:01
Surr: Toluene-d8	*106*			*71-123*	*%REC*	1	05/26/18 02:01
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.030**		**0.0021**	**0.021**	**mg/Kg-dry**	1	06/05/18 09:47
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**2.3**		**0.12**	**0.48**	**mg/Kg-dry**	1	06/02/18 01:30
Barium	**34**		**0.19**	**0.48**	**mg/Kg-dry**	1	06/02/18 01:30
Cadmium	U		0.046	0.95	mg/Kg-dry	1	06/02/18 01:30
Chromium	**3.6**		**0.027**	**0.48**	**mg/Kg-dry**	1	06/02/18 01:30
Lead	**16**		**0.10**	**0.48**	**mg/Kg-dry**	1	06/02/18 01:30
Selenium	U		0.27	0.95	mg/Kg-dry	1	06/02/18 01:30
Silver	U		0.059	0.48	mg/Kg-dry	1	06/02/18 01:30
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3546 / 5/30/18		Analyst: **EB**
1,1`-Biphenyl	U		0.0069	0.042	mg/Kg-dry	1	05/30/18 21:15
2,4,5-Trichlorophenol	U		0.012	0.042	mg/Kg-dry	1	05/30/18 21:15
2,4,6-Trichlorophenol	U		0.011	0.042	mg/Kg-dry	1	05/30/18 21:15
2,4-Dichlorophenol	U		0.0089	0.042	mg/Kg-dry	1	05/30/18 21:15
2,4-Dimethylphenol	U		0.0086	0.042	mg/Kg-dry	1	05/30/18 21:15
2,4-Dinitrophenol	U		0.023	0.042	mg/Kg-dry	1	05/30/18 21:15
2,4-Dinitrotoluene	U		0.011	0.042	mg/Kg-dry	1	05/30/18 21:15
2,6-Dinitrotoluene	U		0.0070	0.042	mg/Kg-dry	1	05/30/18 21:15
2-Chloronaphthalene	U		0.0059	0.0085	mg/Kg-dry	1	05/30/18 21:15
2-Chlorophenol	U		0.013	0.042	mg/Kg-dry	1	05/30/18 21:15
2-Methylnaphthalene	U		0.0043	0.0085	mg/Kg-dry	1	05/30/18 21:15
2-Methylphenol	U		0.011	0.042	mg/Kg-dry	1	05/30/18 21:15
2-Nitroaniline	U		0.0097	0.042	mg/Kg-dry	1	05/30/18 21:15
2-Nitrophenol	U		0.012	0.042	mg/Kg-dry	1	05/30/18 21:15
3&4-Methylphenol	U		0.0085	0.042	mg/Kg-dry	1	05/30/18 21:15
3,3´-Dichlorobenzidine	U		0.0063	0.21	mg/Kg-dry	1	05/30/18 21:15
3-Nitroaniline	U		0.0097	0.042	mg/Kg-dry	1	05/30/18 21:15
4,6-Dinitro-2-methylphenol	U		0.011	0.042	mg/Kg-dry	1	05/30/18 21:15
4-Bromophenyl phenyl ether	U		0.011	0.042	mg/Kg-dry	1	05/30/18 21:15

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-10 (4)
Collection Date: 05/23/18 11:30 AM

Work Order: 18051689
Lab ID: 18051689-38
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloro-3-methylphenol	U		0.012	0.042	mg/Kg-dry	1	05/30/18 21:15
4-Chloroaniline	U		0.0067	0.085	mg/Kg-dry	1	05/30/18 21:15
4-Chlorophenyl phenyl ether	U		0.012	0.042	mg/Kg-dry	1	05/30/18 21:15
4-Nitroaniline	U		0.066	0.21	mg/Kg-dry	1	05/30/18 21:15
4-Nitrophenol	U		0.038	0.042	mg/Kg-dry	1	05/30/18 21:15
Acenaphthene	U		0.0061	0.0085	mg/Kg-dry	1	05/30/18 21:15
Acenaphthylene	U		0.0073	0.0085	mg/Kg-dry	1	05/30/18 21:15
Acetophenone	U		0.0066	0.042	mg/Kg-dry	1	05/30/18 21:15
Anthracene	U		0.0060	0.0085	mg/Kg-dry	1	05/30/18 21:15
Atrazine	U		0.0067	0.042	mg/Kg-dry	1	05/30/18 21:15
Benzaldehyde	U		0.065	0.085	mg/Kg-dry	1	05/30/18 21:15
Benzo(a)anthracene	U		0.0073	0.0085	mg/Kg-dry	1	05/30/18 21:15
Benzo(a)pyrene	U		0.0052	0.0085	mg/Kg-dry	1	05/30/18 21:15
Benzo(b)fluoranthene	U		0.0063	0.0085	mg/Kg-dry	1	05/30/18 21:15
Benzo(g,h,i)perylene	U		0.0065	0.0085	mg/Kg-dry	1	05/30/18 21:15
Benzo(k)fluoranthene	U		0.0064	0.0085	mg/Kg-dry	1	05/30/18 21:15
Bis(2-chloroethoxy)methane	U		0.0041	0.042	mg/Kg-dry	1	05/30/18 21:15
Bis(2-chloroethyl)ether	U		0.012	0.042	mg/Kg-dry	1	05/30/18 21:15
Bis(2-chloroisopropyl)ether	U		0.0099	0.042	mg/Kg-dry	1	05/30/18 21:15
Bis(2-ethylhexyl)phthalate	U		0.0073	0.042	mg/Kg-dry	1	05/30/18 21:15
Butyl benzyl phthalate	U		0.0072	0.042	mg/Kg-dry	1	05/30/18 21:15
Caprolactam	U		0.014	0.042	mg/Kg-dry	1	05/30/18 21:15
Carbazole	U		0.0046	0.042	mg/Kg-dry	1	05/30/18 21:15
Chrysene	U		0.0068	0.0085	mg/Kg-dry	1	05/30/18 21:15
Dibenzo(a,h)anthracene	U		0.0046	0.0085	mg/Kg-dry	1	05/30/18 21:15
Dibenzofuran	U		0.0062	0.042	mg/Kg-dry	1	05/30/18 21:15
Diethyl phthalate	U		0.0065	0.042	mg/Kg-dry	1	05/30/18 21:15
Dimethyl phthalate	U		0.0082	0.042	mg/Kg-dry	1	05/30/18 21:15
Di-n-butyl phthalate	U		0.0077	0.042	mg/Kg-dry	1	05/30/18 21:15
Di-n-octyl phthalate	U		0.0081	0.042	mg/Kg-dry	1	05/30/18 21:15
Fluoranthene	U		0.0041	0.0085	mg/Kg-dry	1	05/30/18 21:15
Fluorene	U		0.0061	0.0085	mg/Kg-dry	1	05/30/18 21:15
Hexachlorobenzene	U		0.012	0.042	mg/Kg-dry	1	05/30/18 21:15
Hexachlorobutadiene	U		0.023	0.042	mg/Kg-dry	1	05/30/18 21:15
Hexachlorocyclopentadiene	U		0.014	0.042	mg/Kg-dry	1	05/30/18 21:15
Hexachloroethane	U		0.017	0.042	mg/Kg-dry	1	05/30/18 21:15
Indeno(1,2,3-cd)pyrene	U		0.0059	0.0085	mg/Kg-dry	1	05/30/18 21:15
Isophorone	U		0.0083	0.21	mg/Kg-dry	1	05/30/18 21:15
Naphthalene	U		0.0054	0.0085	mg/Kg-dry	1	05/30/18 21:15
Nitrobenzene	U		0.014	0.21	mg/Kg-dry	1	05/30/18 21:15

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-10 (4)
Collection Date: 05/23/18 11:30 AM

Work Order: 18051689
Lab ID: 18051689-38
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		0.0070	0.042	mg/Kg-dry	1	05/30/18 21:15
N-Nitrosodiphenylamine	U		0.0041	0.042	mg/Kg-dry	1	05/30/18 21:15
Pentachlorophenol	U		0.016	0.042	mg/Kg-dry	1	05/30/18 21:15
Phenanthrene	U		0.0039	0.0085	mg/Kg-dry	1	05/30/18 21:15
Phenol	U		0.010	0.042	mg/Kg-dry	1	05/30/18 21:15
Pyrene	U		0.0015	0.0085	mg/Kg-dry	1	05/30/18 21:15
Surr: 2,4,6-Tribromophenol	*61.3*			*38-92*	*%REC*	1	05/30/18 21:15
Surr: 2-Fluorobiphenyl	*55.6*			*44-107*	*%REC*	1	05/30/18 21:15
Surr: 2-Fluorophenol	*76.3*			*37-109*	*%REC*	1	05/30/18 21:15
Surr: 4-Terphenyl-d14	*73.5*			*52-123*	*%REC*	1	05/30/18 21:15
Surr: Nitrobenzene-d5	*58.6*			*41-94*	*%REC*	1	05/30/18 21:15
Surr: Phenol-d6	*70.5*			*28-111*	*%REC*	1	05/30/18 21:15
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **EMR**
1,1,1-Trichloroethane	U		0.00094	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
1,1,2,2-Tetrachloroethane	U		0.00032	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
1,1,2-Trichloroethane	U		0.00046	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
1,1,2-Trichlorotrifluoroethane	U		0.0013	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
1,1-Dichloroethane	U		0.0025	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
1,1-Dichloroethene	U		0.0012	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
1,2,4-Trichlorobenzene	U		0.00087	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
1,2-Dibromo-3-chloropropane	U		0.0016	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
1,2-Dibromoethane	U		0.00043	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
1,2-Dichlorobenzene	U		0.00075	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
1,2-Dichloroethane	U		0.00043	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
1,2-Dichloropropane	U		0.00052	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
1,3-Dichlorobenzene	U		0.00062	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
1,4-Dichlorobenzene	U		0.00043	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
2-Butanone	**0.0029**	J	**0.0023**	**0.012**	**mg/Kg-dry**	0.935	05/30/18 18:23
2-Hexanone	U		0.0012	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
4-Methyl-2-pentanone	U		0.00096	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Acetone	**0.020**		**0.0025**	**0.012**	**mg/Kg-dry**	0.935	05/30/18 18:23
Benzene	U		0.00062	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Bromodichloromethane	U		0.00038	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Bromoform	U		0.00037	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Bromomethane	U		0.00085	0.012	mg/Kg-dry	0.935	05/30/18 18:23
Carbon disulfide	U		0.00066	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Carbon tetrachloride	U		0.00099	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Chlorobenzene	U		0.00038	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Chloroethane	U		0.00075	0.0059	mg/Kg-dry	0.935	05/30/18 18:23

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-10 (4)
Collection Date: 05/23/18 11:30 AM

Work Order: 18051689
Lab ID: 18051689-38
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.00036	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Chloromethane	U		0.00055	0.012	mg/Kg-dry	0.935	05/30/18 18:23
cis-1,2-Dichloroethene	U		0.00057	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
cis-1,3-Dichloropropene	U		0.00031	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Cyclohexane	U		0.0036	0.012	mg/Kg-dry	0.935	05/30/18 18:23
Dibromochloromethane	U		0.00056	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Dichlorodifluoromethane	U		0.0013	0.012	mg/Kg-dry	0.935	05/30/18 18:23
Ethylbenzene	U		0.00071	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Isopropylbenzene	U		0.00076	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
m,p-Xylene	U		0.0015	0.0030	mg/Kg-dry	0.935	05/30/18 18:23
Methyl acetate	U		0.0014	0.012	mg/Kg-dry	0.935	05/30/18 18:23
Methyl tert-butyl ether	U		0.00027	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Methylcyclohexane	U		0.0018	0.012	mg/Kg-dry	0.935	05/30/18 18:23
Methylene chloride	U		0.0010	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
o-Xylene	U		0.00056	0.0030	mg/Kg-dry	0.935	05/30/18 18:23
Styrene	U		0.00047	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Tetrachloroethene	U		0.0011	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Toluene	U		0.00066	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
trans-1,2-Dichloroethene	U		0.00047	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
trans-1,3-Dichloropropene	U		0.00034	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Trichloroethene	U		0.00085	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Trichlorofluoromethane	U		0.00084	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Vinyl chloride	U		0.00083	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Xylenes, Total	U		0.0020	0.0059	mg/Kg-dry	0.935	05/30/18 18:23
Surr: 1,2-Dichloroethane-d4	*106*			*83-132*	*%REC*	0.935	05/30/18 18:23
Surr: 4-Bromofluorobenzene	*97.8*			*83-111*	*%REC*	0.935	05/30/18 18:23
Surr: Dibromofluoromethane	*62.8*	S		*77-125*	*%REC*	0.935	05/30/18 18:23
Surr: Toluene-d8	*92.0*			*86-108*	*%REC*	0.935	05/30/18 18:23
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**21**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-10 (9)
Collection Date: 05/23/18 11:30 AM

Work Order: 18051689
Lab ID: 18051689-39
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.075**		**0.0020**	**0.020**	**mg/Kg-dry**	1	06/05/18 09:50
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**4.6**		**0.12**	**0.44**	**mg/Kg-dry**	1	06/02/18 01:36
Barium	**450**		**0.18**	**0.44**	**mg/Kg-dry**	1	06/02/18 01:36
Cadmium	**0.056**	J	**0.043**	**0.89**	**mg/Kg-dry**	1	06/02/18 01:36
Chromium	**3.5**		**0.025**	**0.44**	**mg/Kg-dry**	1	06/02/18 01:36
Lead	**16**		**0.094**	**0.44**	**mg/Kg-dry**	1	06/02/18 01:36
Selenium	U		0.25	0.89	mg/Kg-dry	1	06/02/18 01:36
Silver	U		0.055	0.44	mg/Kg-dry	1	06/02/18 01:36
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**24**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: SB-10 (14)
Collection Date: 05/23/18 11:30 AM

Work Order: 18051689
Lab ID: 18051689-40
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 6/5/18		Analyst: **RSH**
Mercury	**0.033**		**0.0024**	**0.024**	**mg/Kg-dry**	1	06/05/18 09:52
METALS ANALYSIS BY ICP		Method: **SW846 6010C**			Prep: SW3050B / 5/31/18		Analyst: **RH**
Arsenic	**6.8**		**0.14**	**0.55**	**mg/Kg-dry**	1	06/02/18 01:42
Barium	**42**		**0.22**	**0.55**	**mg/Kg-dry**	1	06/02/18 01:42
Cadmium	U		0.053	1.1	mg/Kg-dry	1	06/02/18 01:42
Chromium	**0.34**	J	**0.031**	**0.55**	**mg/Kg-dry**	1	06/02/18 01:42
Lead	**30**		**0.12**	**0.55**	**mg/Kg-dry**	1	06/02/18 01:42
Selenium	**0.59**	J	**0.31**	**1.1**	**mg/Kg-dry**	1	06/02/18 01:42
Silver	U		0.069	0.55	mg/Kg-dry	1	06/02/18 01:42
MOISTURE		Method: **SW3550C**					Analyst: **NW**
Moisture	**29**		**0.025**	**0.050**	**% of sample**	1	05/31/18 16:20

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: RB-1
Collection Date: 05/23/18 12:25 PM

Work Order: 18051689
Lab ID: 18051689-41
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3511 / 5/30/18		Analyst: **MEB**
DRO (C10-C28)	U		0.040	0.10	mg/L	1	05/30/18 13:42
ORO (C28-C40)	U		0.051	0.10	mg/L	1	05/30/18 13:42
Surr: 4-Terphenyl-d14	*61.6*			*35-161*	*%REC*	1	05/30/18 13:42
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**					Analyst: **MEB**
GRO (C6-C10)	U		0.076	0.20	mg/L	1	06/03/18 20:28
Surr: Toluene-d8	*105*			*76-120*	*%REC*	1	06/03/18 20:28
MERCURY BY CVAA		Method: **SW7470A**			Prep: SW7470 / 6/4/18		Analyst: **RSH**
Mercury	U		0.000030	0.00020	mg/L	1	06/04/18 11:57
METALS BY ICP-MS		Method: **SW6020A**			Prep: SW3005A / 5/31/18		Analyst: **JF**
Arsenic	**0.0023**	J	**0.00019**	**0.0050**	**mg/L**	1	05/31/18 20:01
Barium	**0.14**		**0.00085**	**0.0050**	**mg/L**	1	05/31/18 20:01
Cadmium	**0.00030**	J	**0.000040**	**0.0020**	**mg/L**	1	05/31/18 20:01
Chromium	**0.010**		**0.00061**	**0.0050**	**mg/L**	1	05/31/18 20:01
Lead	**0.0058**		**0.000080**	**0.0050**	**mg/L**	1	05/31/18 20:01
Selenium	**0.0018**	J	**0.00048**	**0.0050**	**mg/L**	1	05/31/18 20:01
Silver	U		0.00012	0.0050	mg/L	1	05/31/18 20:01
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3510 / 5/25/18		Analyst: **EB**
1,1`-Biphenyl	U		0.00042	0.0050	mg/L	1	05/25/18 22:49
2,4,5-Trichlorophenol	U		0.00017	0.0050	mg/L	1	05/25/18 22:49
2,4,6-Trichlorophenol	U		0.00025	0.0050	mg/L	1	05/25/18 22:49
2,4-Dichlorophenol	U		0.00035	0.0050	mg/L	1	05/25/18 22:49
2,4-Dimethylphenol	U		0.00036	0.0050	mg/L	1	05/25/18 22:49
2,4-Dinitrophenol	U		0.00040	0.0050	mg/L	1	05/25/18 22:49
2,4-Dinitrotoluene	U		0.00042	0.0050	mg/L	1	05/25/18 22:49
2,6-Dinitrotoluene	U		0.00011	0.0050	mg/L	1	05/25/18 22:49
2-Chloronaphthalene	U		0.000075	0.0050	mg/L	1	05/25/18 22:49
2-Chlorophenol	U		0.00023	0.0050	mg/L	1	05/25/18 22:49
2-Methylnaphthalene	U		0.000065	0.0050	mg/L	1	05/25/18 22:49
2-Methylphenol	U		0.00025	0.0050	mg/L	1	05/25/18 22:49
2-Nitroaniline	U		0.00021	0.0050	mg/L	1	05/25/18 22:49
2-Nitrophenol	U		0.00034	0.0050	mg/L	1	05/25/18 22:49
3&4-Methylphenol	U		0.00021	0.0050	mg/L	1	05/25/18 22:49
3,3´-Dichlorobenzidine	U		0.0016	0.0050	mg/L	1	05/25/18 22:49
3-Nitroaniline	U		0.00064	0.0050	mg/L	1	05/25/18 22:49
4,6-Dinitro-2-methylphenol	U		0.00027	0.0050	mg/L	1	05/25/18 22:49
4-Bromophenyl phenyl ether	U		0.00033	0.0050	mg/L	1	05/25/18 22:49

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: RB-1
Collection Date: 05/23/18 12:25 PM

Work Order: 18051689
Lab ID: 18051689-41
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloro-3-methylphenol	U		0.00026	0.0050	mg/L	1	05/25/18 22:49
4-Chloroaniline	U		0.00034	0.0050	mg/L	1	05/25/18 22:49
4-Chlorophenyl phenyl ether	U		0.00031	0.0050	mg/L	1	05/25/18 22:49
4-Nitroaniline	U		0.00057	0.0050	mg/L	1	05/25/18 22:49
4-Nitrophenol	U		0.00024	0.0050	mg/L	1	05/25/18 22:49
Acenaphthene	U		0.000081	0.0050	mg/L	1	05/25/18 22:49
Acenaphthylene	U		0.000075	0.0050	mg/L	1	05/25/18 22:49
Acetophenone	U		0.00037	0.0010	mg/L	1	05/25/18 22:49
Anthracene	U		0.000028	0.0050	mg/L	1	05/25/18 22:49
Atrazine	U		0.00035	0.0010	mg/L	1	05/25/18 22:49
Benzaldehyde	U		0.00052	0.0010	mg/L	1	05/25/18 22:49
Benzo(a)anthracene	U		0.000022	0.0050	mg/L	1	05/25/18 22:49
Benzo(a)pyrene	U		0.000044	0.0050	mg/L	1	05/25/18 22:49
Benzo(b)fluoranthene	U		0.000051	0.0050	mg/L	1	05/25/18 22:49
Benzo(g,h,i)perylene	U		0.000030	0.0050	mg/L	1	05/25/18 22:49
Benzo(k)fluoranthene	U		0.000048	0.0050	mg/L	1	05/25/18 22:49
Bis(2-chloroethoxy)methane	U		0.00029	0.0050	mg/L	1	05/25/18 22:49
Bis(2-chloroethyl)ether	U		0.00037	0.0050	mg/L	1	05/25/18 22:49
Bis(2-chloroisopropyl)ether	U		0.00023	0.0050	mg/L	1	05/25/18 22:49
Bis(2-ethylhexyl)phthalate	**0.00060**	J	**0.00040**	**0.0050**	**mg/L**	1	05/25/18 22:49
Butyl benzyl phthalate	U		0.00030	0.0050	mg/L	1	05/25/18 22:49
Caprolactam	U		0.00096	0.010	mg/L	1	05/25/18 22:49
Carbazole	U		0.00010	0.0050	mg/L	1	05/25/18 22:49
Chrysene	U		0.000048	0.0050	mg/L	1	05/25/18 22:49
Dibenzo(a,h)anthracene	U		0.000030	0.0050	mg/L	1	05/25/18 22:49
Dibenzofuran	U		0.00023	0.0050	mg/L	1	05/25/18 22:49
Diethyl phthalate	U		0.00017	0.0050	mg/L	1	05/25/18 22:49
Dimethyl phthalate	U		0.00018	0.0050	mg/L	1	05/25/18 22:49
Di-n-butyl phthalate	U		0.00021	0.0050	mg/L	1	05/25/18 22:49
Di-n-octyl phthalate	U		0.00015	0.0050	mg/L	1	05/25/18 22:49
Fluoranthene	U		0.000038	0.0050	mg/L	1	05/25/18 22:49
Fluorene	U		0.000051	0.0050	mg/L	1	05/25/18 22:49
Hexachlorobenzene	U		0.00044	0.0050	mg/L	1	05/25/18 22:49
Hexachlorobutadiene	U		0.00028	0.0050	mg/L	1	05/25/18 22:49
Hexachlorocyclopentadiene	U		0.0011	0.0050	mg/L	1	05/25/18 22:49
Hexachloroethane	U		0.00021	0.0050	mg/L	1	05/25/18 22:49
Indeno(1,2,3-cd)pyrene	U		0.000067	0.0050	mg/L	1	05/25/18 22:49
Isophorone	U		0.00034	0.0050	mg/L	1	05/25/18 22:49
Naphthalene	U		0.000067	0.0050	mg/L	1	05/25/18 22:49
Nitrobenzene	U		0.00026	0.0050	mg/L	1	05/25/18 22:49

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

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: RB-1
Collection Date: 05/23/18 12:25 PM

Work Order: 18051689
Lab ID: 18051689-41
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		0.00035	0.0050	mg/L	1	05/25/18 22:49
N-Nitrosodiphenylamine	U		0.00023	0.0050	mg/L	1	05/25/18 22:49
Pentachlorophenol	U		0.00097	0.0050	mg/L	1	05/25/18 22:49
Phenanthrene	U		0.000030	0.0050	mg/L	1	05/25/18 22:49
Phenol	U		0.00021	0.0050	mg/L	1	05/25/18 22:49
Pyrene	U		0.000036	0.0050	mg/L	1	05/25/18 22:49
Surr: 2,4,6-Tribromophenol	*52.7*			*27-83*	*%REC*	1	05/25/18 22:49
Surr: 2-Fluorobiphenyl	*42.0*			*26-79*	*%REC*	1	05/25/18 22:49
Surr: 2-Fluorophenol	*33.8*			*13-56*	*%REC*	1	05/25/18 22:49
Surr: 4-Terphenyl-d14	*77.8*			*43-106*	*%REC*	1	05/25/18 22:49
Surr: Nitrobenzene-d5	*41.7*			*29-80*	*%REC*	1	05/25/18 22:49
Surr: Phenol-d6	*22.6*			*10-35*	*%REC*	1	05/25/18 22:49
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **LSY**
1,1,1-Trichloroethane	U		0.00033	0.0010	mg/L	1	05/31/18 15:42
1,1,2,2-Tetrachloroethane	U		0.00017	0.0010	mg/L	1	05/31/18 15:42
1,1,2-Trichloroethane	U		0.00022	0.0010	mg/L	1	05/31/18 15:42
1,1,2-Trichlorotrifluoroethane	U		0.00018	0.0010	mg/L	1	05/31/18 15:42
1,1-Dichloroethane	U		0.00048	0.0010	mg/L	1	05/31/18 15:42
1,1-Dichloroethene	U		0.00036	0.0010	mg/L	1	05/31/18 15:42
1,2,4-Trichlorobenzene	U		0.00025	0.0010	mg/L	1	05/31/18 15:42
1,2-Dibromo-3-chloropropane	U		0.00043	0.0010	mg/L	1	05/31/18 15:42
1,2-Dibromoethane	U		0.00017	0.0010	mg/L	1	05/31/18 15:42
1,2-Dichlorobenzene	U		0.00012	0.0010	mg/L	1	05/31/18 15:42
1,2-Dichloroethane	U		0.00011	0.0010	mg/L	1	05/31/18 15:42
1,2-Dichloropropane	U		0.00034	0.0010	mg/L	1	05/31/18 15:42
1,3-Dichlorobenzene	U		0.00013	0.0010	mg/L	1	05/31/18 15:42
1,4-Dichlorobenzene	U		0.00013	0.0010	mg/L	1	05/31/18 15:42
2-Butanone	U		0.00047	0.0050	mg/L	1	05/31/18 15:42
2-Hexanone	U		0.00050	0.0050	mg/L	1	05/31/18 15:42
4-Methyl-2-pentanone	U		0.00052	0.0010	mg/L	1	05/31/18 15:42
Acetone	U		0.00047	0.010	mg/L	1	05/31/18 15:42
Benzene	U		0.00042	0.0010	mg/L	1	05/31/18 15:42
Bromodichloromethane	U		0.00022	0.0010	mg/L	1	05/31/18 15:42
Bromoform	U		0.00056	0.0010	mg/L	1	05/31/18 15:42
Bromomethane	U		0.00029	0.0010	mg/L	1	05/31/18 15:42
Carbon disulfide	U		0.00039	0.0010	mg/L	1	05/31/18 15:42
Carbon tetrachloride	U		0.00032	0.0010	mg/L	1	05/31/18 15:42
Chlorobenzene	U		0.00021	0.0010	mg/L	1	05/31/18 15:42
Chloroethane	U		0.00068	0.0010	mg/L	1	05/31/18 15:42

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: RB-1
Collection Date: 05/23/18 12:25 PM

Work Order: 18051689
Lab ID: 18051689-41
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.00046	0.0010	mg/L	1	05/31/18 15:42
Chloromethane	U		0.00068	0.0010	mg/L	1	05/31/18 15:42
cis-1,2-Dichloroethene	U		0.00038	0.0010	mg/L	1	05/31/18 15:42
cis-1,3-Dichloropropene	U		0.00013	0.0010	mg/L	1	05/31/18 15:42
Cyclohexane	U		0.00018	0.0010	mg/L	1	05/31/18 15:42
Dibromochloromethane	U		0.00020	0.0010	mg/L	1	05/31/18 15:42
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	05/31/18 15:42
Ethylbenzene	U		0.00029	0.0010	mg/L	1	05/31/18 15:42
Isopropylbenzene	U		0.00017	0.0010	mg/L	1	05/31/18 15:42
m,p-Xylene	U		0.00053	0.0020	mg/L	1	05/31/18 15:42
Methyl acetate	U		0.00026	0.0020	mg/L	1	05/31/18 15:42
Methyl tert-butyl ether	U		0.00021	0.0010	mg/L	1	05/31/18 15:42
Methylcyclohexane	U		0.000090	0.0010	mg/L	1	05/31/18 15:42
Methylene chloride	U		0.00016	0.0050	mg/L	1	05/31/18 15:42
o-Xylene	U		0.00019	0.0010	mg/L	1	05/31/18 15:42
Styrene	U		0.00019	0.0010	mg/L	1	05/31/18 15:42
Tetrachloroethene	U		0.00028	0.0010	mg/L	1	05/31/18 15:42
Toluene	U		0.00032	0.0010	mg/L	1	05/31/18 15:42
trans-1,2-Dichloroethene	U		0.00048	0.0010	mg/L	1	05/31/18 15:42
trans-1,3-Dichloropropene	U		0.00015	0.0010	mg/L	1	05/31/18 15:42
Trichloroethene	U		0.00033	0.0010	mg/L	1	05/31/18 15:42
Trichlorofluoromethane	U		0.00024	0.0010	mg/L	1	05/31/18 15:42
Vinyl chloride	U		0.00053	0.0010	mg/L	1	05/31/18 15:42
Xylenes, Total	U		0.00074	0.0030	mg/L	1	05/31/18 15:42
Surr: 1,2-Dichloroethane-d4	*113*			*75-120*	*%REC*	1	05/31/18 15:42
Surr: 4-Bromofluorobenzene	*106*			*80-110*	*%REC*	1	05/31/18 15:42
Surr: Dibromofluoromethane	*92.4*			*85-115*	*%REC*	1	05/31/18 15:42
Surr: Toluene-d8	*99.2*			*85-110*	*%REC*	1	05/31/18 15:42

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: Trip Blank
Collection Date: 05/23/18

Work Order: 18051689
Lab ID: 18051689-42
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **EMR**
1,1,1-Trichloroethane	U		0.00033	0.0010	mg/L	1	05/31/18 12:42
1,1,2,2-Tetrachloroethane	U		0.00017	0.0010	mg/L	1	05/31/18 12:42
1,1,2-Trichloroethane	U		0.00022	0.0010	mg/L	1	05/31/18 12:42
1,1,2-Trichlorotrifluoroethane	U		0.00018	0.0010	mg/L	1	05/31/18 12:42
1,1-Dichloroethane	U		0.00048	0.0010	mg/L	1	05/31/18 12:42
1,1-Dichloroethene	U		0.00036	0.0010	mg/L	1	05/31/18 12:42
1,2,4-Trichlorobenzene	U		0.00025	0.0010	mg/L	1	05/31/18 12:42
1,2-Dibromo-3-chloropropane	U		0.00043	0.0010	mg/L	1	05/31/18 12:42
1,2-Dibromoethane	U		0.00017	0.0010	mg/L	1	05/31/18 12:42
1,2-Dichlorobenzene	U		0.00012	0.0010	mg/L	1	05/31/18 12:42
1,2-Dichloroethane	U		0.00011	0.0010	mg/L	1	05/31/18 12:42
1,2-Dichloropropane	U		0.00034	0.0010	mg/L	1	05/31/18 12:42
1,3-Dichlorobenzene	U		0.00013	0.0010	mg/L	1	05/31/18 12:42
1,4-Dichlorobenzene	U		0.00013	0.0010	mg/L	1	05/31/18 12:42
2-Butanone	U		0.00047	0.0050	mg/L	1	05/31/18 12:42
2-Hexanone	U		0.00050	0.0050	mg/L	1	05/31/18 12:42
4-Methyl-2-pentanone	U		0.00052	0.0010	mg/L	1	05/31/18 12:42
Acetone	U		0.00047	0.010	mg/L	1	05/31/18 12:42
Benzene	U		0.00042	0.0010	mg/L	1	05/31/18 12:42
Bromodichloromethane	U		0.00022	0.0010	mg/L	1	05/31/18 12:42
Bromoform	U		0.00056	0.0010	mg/L	1	05/31/18 12:42
Bromomethane	U		0.00029	0.0010	mg/L	1	05/31/18 12:42
Carbon disulfide	U		0.00039	0.0010	mg/L	1	05/31/18 12:42
Carbon tetrachloride	U		0.00032	0.0010	mg/L	1	05/31/18 12:42
Chlorobenzene	U		0.00021	0.0010	mg/L	1	05/31/18 12:42
Chloroethane	U		0.00068	0.0010	mg/L	1	05/31/18 12:42
Chloroform	**0.00076**	J	**0.00046**	**0.0010**	**mg/L**	1	05/31/18 12:42
Chloromethane	U		0.00068	0.0010	mg/L	1	05/31/18 12:42
cis-1,2-Dichloroethene	U		0.00038	0.0010	mg/L	1	05/31/18 12:42
cis-1,3-Dichloropropene	U		0.00013	0.0010	mg/L	1	05/31/18 12:42
Cyclohexane	U		0.00018	0.0010	mg/L	1	05/31/18 12:42
Dibromochloromethane	U		0.00020	0.0010	mg/L	1	05/31/18 12:42
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	05/31/18 12:42
Ethylbenzene	U		0.00029	0.0010	mg/L	1	05/31/18 12:42
Isopropylbenzene	U		0.00017	0.0010	mg/L	1	05/31/18 12:42
m,p-Xylene	U		0.00053	0.0020	mg/L	1	05/31/18 12:42
Methyl acetate	U		0.00026	0.0020	mg/L	1	05/31/18 12:42
Methyl tert-butyl ether	U		0.00021	0.0010	mg/L	1	05/31/18 12:42

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

ALS Group, USA

Date: *06-Jun-18*

Client: Tetra Tech
Project: Former Health Module (X902514002.019.024)
Sample ID: Trip Blank
Collection Date: 05/23/18

Work Order: 18051689
Lab ID: 18051689-42
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.000090	0.0010	mg/L	1	05/31/18 12:42
Methylene chloride	**0.00065**	J	**0.00016**	**0.0050**	**mg/L**	1	05/31/18 12:42
o-Xylene	U		0.00019	0.0010	mg/L	1	05/31/18 12:42
Styrene	U		0.00019	0.0010	mg/L	1	05/31/18 12:42
Tetrachloroethene	U		0.00028	0.0010	mg/L	1	05/31/18 12:42
Toluene	U		0.00032	0.0010	mg/L	1	05/31/18 12:42
trans-1,2-Dichloroethene	U		0.00048	0.0010	mg/L	1	05/31/18 12:42
trans-1,3-Dichloropropene	U		0.00015	0.0010	mg/L	1	05/31/18 12:42
Trichloroethene	U		0.00033	0.0010	mg/L	1	05/31/18 12:42
Trichlorofluoromethane	U		0.00024	0.0010	mg/L	1	05/31/18 12:42
Vinyl chloride	U		0.00053	0.0010	mg/L	1	05/31/18 12:42
Xylenes, Total	U		0.00074	0.0030	mg/L	1	05/31/18 12:42
Surr: 1,2-Dichloroethane-d4	*97.8*			*75-120*	*%REC*	1	05/31/18 12:42
Surr: 4-Bromofluorobenzene	*95.3*			*80-110*	*%REC*	1	05/31/18 12:42
Surr: Dibromofluoromethane	*103*			*85-115*	*%REC*	1	05/31/18 12:42
Surr: Toluene-d8	*94.6*			*85-110*	*%REC*	1	05/31/18 12:42

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

Batch ID: **118894** Instrument ID **GC8** Method: **SW8015C**

MBLK Sample ID: **DBLKS1-118894-118894** Units: **mg/Kg** Analysis Date: **05/25/18 07:08 PM**

Client ID: Run ID: **GC8_180525A** SeqNo: **5058101** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	U	2.9	5.0								
ORO (C28-C40)	U	1.9	5.0								
Surr: 4-Terphenyl-d14	*2.75*	0	0	*3.33*	0	*82.6*	*34-130*	0			

LCS Sample ID: **DLCSS1-118894-118894** Units: **mg/Kg** Analysis Date: **05/25/18 07:37 PM**

Client ID: Run ID: **GC8_180525A** SeqNo: **5058102** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	359	2.9	5.0	333	0	108	65-122	0			
ORO (C28-C40)	377.3	1.9	5.0	333	0	113	81-116	0			
Surr: 4-Terphenyl-d14	*2.767*	0	0	*3.33*	0	*83.1*	*34-130*	0			

MS Sample ID: **18051689-22A MS** Units: **mg/Kg** Analysis Date: **05/25/18 09:04 PM**

Client ID: **SB-6 (4)** Run ID: **GC8_180525A** SeqNo: **5058104** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	337.2	2.8	4.9	328.5	2.68	102	65-122	0			
ORO (C28-C40)	341.4	1.9	4.9	328.5	7.107	102	81-116	0			
Surr: 4-Terphenyl-d14	*2.713*	0	0	*3.285*	0	*82.6*	*34-130*	0			

MSD Sample ID: **18051689-22A MSD** Units: **mg/Kg** Analysis Date: **05/25/18 09:34 PM**

Client ID: **SB-6 (4)** Run ID: **GC8_180525A** SeqNo: **5058105** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	336.5	2.8	4.9	327.2	2.68	102	65-122	337.2	0.204	30	
ORO (C28-C40)	334.1	1.9	4.9	327.2	7.107	99.9	81-116	341.4	2.15	30	
Surr: 4-Terphenyl-d14	*2.653*	0	0	*3.272*	0	*81.1*	*34-130*	2.713	*2.23*	*30*	

The following samples were analyzed in this batch:

18051689-02A	18051689-06A	18051689-10A
18051689-14A	18051689-18A	18051689-22A
18051689-26A	18051689-30A	18051689-34A
18051689-38A		

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **119007** Instrument ID **GC8** Method: **SW8015C**

MBLK Sample ID: **DBLKW1-119007-119007** Units: **mg/L** Analysis Date: **05/30/18 11:44 AM**
Client ID: Run ID: **GC8_180530A** SeqNo: **5063126** Prep Date: **05/30/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	U	0.04	0.10								
ORO (C28-C40)	U	0.051	0.10								
Surr: 4-Terphenyl-d14	*0.0325*	0	0	*0.042*	0	*77.9*	*35-161*	0			

LCS Sample ID: **DLCSW1-119007-119007** Units: **mg/L** Analysis Date: **05/30/18 12:14 PM**
Client ID: Run ID: **GC8_180530A** SeqNo: **5063127** Prep Date: **05/30/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	4.986	0.04	0.10	4.17	0	120	60-150	0			
ORO (C28-C40)	4.937	0.051	0.10	4.17	0	118	77-150	0			
Surr: 4-Terphenyl-d14	*0.03867*	0	0	*0.042*	0	*92.7*	*35-161*	0			

LCSD Sample ID: **DLCSDW1-119007-119007** Units: **mg/L** Analysis Date: **05/30/18 12:43 PM**
Client ID: Run ID: **GC8_180530A** SeqNo: **5063128** Prep Date: **05/30/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	4.987	0.04	0.10	4.17	0	120	60-150	4.986	0.0167	30	
ORO (C28-C40)	5.067	0.051	0.10	4.17	0	122	77-150	4.937	2.59	30	
Surr: 4-Terphenyl-d14	*0.0375*	0	0	*0.042*	0	*89.9*	*35-161*	0.03867	*3.06*	*30*	

The following samples were analyzed in this batch: 18051689-41B

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **118886** Instrument ID **GC9** Method: **SW8015D**

MBLK Sample ID: **MBLK-118886-118886** Units: **µg/Kg-dry** Analysis Date: **05/25/18 07:35 PM**
Client ID: Run ID: **GC9_180525A** SeqNo: **5058403** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	2100	5,000								
Surr: Toluene-d8	*5280*	0	0	*5000*	0	*106*	*71-123*	0			

LCS Sample ID: **LCS-118886-118886** Units: **µg/Kg-dry** Analysis Date: **05/25/18 06:36 PM**
Client ID: Run ID: **GC9_180525A** SeqNo: **5058402** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	475300	2100	5,000	5E+05	0	95.1	71-123	0			
Surr: Toluene-d8	*5182*	0	0	*5000*	0	*104*	*71-123*	0			

MS Sample ID: **18051626-01A MS** Units: **µg/Kg-dry** Analysis Date: **05/26/18 05:29 AM**
Client ID: Run ID: **GC9_180525A** SeqNo: **5058420** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	568400	2300	5,500	5E+05	0	103	71-123	0			
Surr: Toluene-d8	*5841*	0	0	*5493*	0	*106*	*71-123*	0			

MSD Sample ID: **18051626-01A MSD** Units: **µg/Kg-dry** Analysis Date: **05/26/18 05:58 AM**
Client ID: Run ID: **GC9_180525A** SeqNo: **5058421** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	638500	2300	5,500	5E+05	0	116	71-123	568400	11.6	30	
Surr: Toluene-d8	*5783*	0	0	*5493*	0	*105*	*71-123*	5841	*1*	*30*	

The following samples were analyzed in this batch:

18051689-02C, 18051689-06C, 18051689-10C, 18051689-14C, 18051689-18C, 18051689-22C, 18051689-26C, 18051689-30C, 18051689-34C, 18051689-38C

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R237234** Instrument ID **GC9** Method: **SW8015D**

MBLK Sample ID: **GBLKW1-180603-R237234** Units: **µg/L** Analysis Date: **06/03/18 06:30 PM**
Client ID: Run ID: **GC9_180603A** SeqNo: **5069320** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	76	200								
Surr: Toluene-d8	*106.1*	0	0	*100*	0	*106*	*76-120*	0			

LCS Sample ID: **GLCSW1-180603-R237234** Units: **µg/L** Analysis Date: **06/03/18 05:32 PM**
Client ID: Run ID: **GC9_180603A** SeqNo: **5069319** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	10120	76	200	10000	0	101	76-126	0			
Surr: Toluene-d8	*99.79*	0	0	*100*	0	*99.8*	*76-120*	0			

MS Sample ID: **18051645-08A MS** Units: **µg/L** Analysis Date: **06/03/18 10:28 PM**
Client ID: Run ID: **GC9_180603A** SeqNo: **5069327** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	19160	76	200	20000	0	95.8	76-126	0			
Surr: Toluene-d8	*107*	0	0	*100*	0	*107*	*76-120*	0			

MSD Sample ID: **18051645-08A MSD** Units: **µg/L** Analysis Date: **06/03/18 10:57 PM**
Client ID: Run ID: **GC9_180603A** SeqNo: **5069328** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	20280	76	200	20000	0	101	76-126	19160	5.71	30	
Surr: Toluene-d8	*108.1*	0	0	*100*	0	*108*	*76-120*	107	*1.07*	*30*	

The following samples were analyzed in this batch: 18051689-41A

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **119232** Instrument ID **HG1** Method: **SW7470A**

MBLK Sample ID: **MBLK-119232-119232** Units: **mg/L** Analysis Date: **06/04/18 11:41 AM**
Client ID: Run ID: **HG1_180604A** SeqNo: **5070645** Prep Date: **06/04/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00003	0.00020								

LCS Sample ID: **LCS-119232-119232** Units: **mg/L** Analysis Date: **06/04/18 11:43 AM**
Client ID: Run ID: **HG1_180604A** SeqNo: **5070646** Prep Date: **06/04/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00189	0.00003	0.00020	0.002	0	94.5	80-120	0			

MS Sample ID: **18051713-11CMS** Units: **mg/L** Analysis Date: **06/04/18 12:30 PM**
Client ID: Run ID: **HG1_180604A** SeqNo: **5070664** Prep Date: **06/04/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00184	0.00003	0.00020	0.002	-0.000026	93.3	75-125	0			

MSD Sample ID: **18051713-11CMSD** Units: **mg/L** Analysis Date: **06/04/18 12:32 PM**
Client ID: Run ID: **HG1_180604A** SeqNo: **5070665** Prep Date: **06/04/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00189	0.00003	0.00020	0.002	-0.000026	95.8	75-125	0.00184	2.68	20	

The following samples were analyzed in this batch: 18051689-41D

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **119245** Instrument ID **HG1** Method: **SW7471B**

MBLK Sample ID: **MBLK-119245-119245** Units: **mg/Kg** Analysis Date: **06/05/18 06:42 AM**
Client ID: Run ID: **HG1_180605A** SeqNo: **5072414** Prep Date: **06/04/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.002	0.020								

LCS Sample ID: **LCS-119245-119245** Units: **mg/Kg** Analysis Date: **06/05/18 06:44 AM**
Client ID: Run ID: **HG1_180605A** SeqNo: **5072415** Prep Date: **06/04/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.165	0.002	0.020	0.167	0	99.1	80-120	0			

MS Sample ID: **18051689-01AMS** Units: **mg/Kg** Analysis Date: **06/05/18 06:50 AM**
Client ID: **SB-1 (0-2)** Run ID: **HG1_180605A** SeqNo: **5072417** Prep Date: **06/04/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.2113	0.0018	0.018	0.147	0.05666	105	75-125	0			

MSD Sample ID: **18051689-01AMSD** Units: **mg/Kg** Analysis Date: **06/05/18 06:52 AM**
Client ID: **SB-1 (0-2)** Run ID: **HG1_180605A** SeqNo: **5072418** Prep Date: **06/04/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.2031	0.0018	0.018	0.147	0.05666	100	75-125	0.2113	3.99	35	

The following samples were analyzed in this batch:

18051689-01A	18051689-02A	18051689-03A
18051689-04A	18051689-05A	18051689-06A
18051689-07A	18051689-08A	18051689-09A
18051689-10A	18051689-11A	18051689-12A
18051689-13A	18051689-14A	18051689-15A
18051689-16A	18051689-17A	18051689-18A
18051689-19A	18051689-20A	

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **119255** Instrument ID **HG1** Method: **SW7471B**

MBLK Sample ID: **MBLK-119255-119255** Units: **mg/Kg** Analysis Date: **06/05/18 08:38 AM**
Client ID: Run ID: **HG1_180605A** SeqNo: **5072455** Prep Date: **06/05/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.002	0.020								

LCS Sample ID: **LCS-119255-119255** Units: **mg/Kg** Analysis Date: **06/05/18 08:41 AM**
Client ID: Run ID: **HG1_180605A** SeqNo: **5072456** Prep Date: **06/05/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1817	0.002	0.020	0.167	0	109	80-120	0			

MS Sample ID: **18051689-32AMS** Units: **mg/Kg** Analysis Date: **06/05/18 09:22 AM**
Client ID: **SB-8 (14)** Run ID: **HG1_180605A** SeqNo: **5072472** Prep Date: **06/05/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.125	0.0019	0.019	0.159	0.2142	-56.1	75-125	0			S

MSD Sample ID: **18051689-32AMSD** Units: **mg/Kg** Analysis Date: **06/05/18 09:24 AM**
Client ID: **SB-8 (14)** Run ID: **HG1_180605A** SeqNo: **5072473** Prep Date: **06/05/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1845	0.0019	0.019	0.157	0.2142	-18.9	75-125	0.125	38.4	35	SR

The following samples were analyzed in this batch:

18051689-21A	18051689-22A	18051689-23A
18051689-24A	18051689-25A	18051689-26A
18051689-27A	18051689-28A	18051689-29A
18051689-30A	18051689-31A	18051689-32A
18051689-33A	18051689-34A	18051689-35A
18051689-36A	18051689-37A	18051689-38A
18051689-39A	18051689-40A	

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **119031** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-119031-119031** Units: **mg/Kg** Analysis Date: **06/01/18 02:27 AM**
Client ID: Run ID: **ICP2_180531A** SeqNo: **5065117** Prep Date: **05/30/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.065	0.25								
Barium	U	0.1	0.25								
Cadmium	U	0.024	0.50								
Chromium	0.0246	0.014	0.25								J
Lead	U	0.053	0.25								
Selenium	U	0.14	0.50								
Silver	U	0.031	0.25								

LCS Sample ID: **LCS-119031-119031** Units: **mg/Kg** Analysis Date: **06/01/18 02:33 AM**
Client ID: Run ID: **ICP2_180531A** SeqNo: **5065123** Prep Date: **05/30/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.8	0.065	0.25	5	0	96	80-120	0			
Barium	5.265	0.1	0.25	5	0	105	80-120	0			
Cadmium	5.113	0.024	0.50	5	0	102	80-120	0			
Chromium	5.233	0.014	0.25	5	0	105	80-120	0			
Lead	5.185	0.053	0.25	5	0	104	80-120	0			
Selenium	4.73	0.14	0.50	5	0	94.6	80-120	0			
Silver	5.008	0.031	0.25	5	0	100	80-120	0			

MS Sample ID: **18051676-02AMS** Units: **mg/Kg** Analysis Date: **06/01/18 04:53 AM**
Client ID: Run ID: **ICP2_180531A** SeqNo: **5065153** Prep Date: **05/30/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.29	0.096	0.37	7.364	0.3587	94.1	75-125	0			
Barium	14.82	0.15	0.37	7.364	5.51	126	75-125	0			S
Cadmium	7.312	0.035	0.74	7.364	0.01109	99.1	75-125	0			
Chromium	9.564	0.021	0.37	7.364	1.561	109	75-125	0			
Lead	8.115	0.078	0.37	7.364	0.7374	100	75-125	0			
Selenium	6.811	0.21	0.74	7.364	-0.04541	93.1	75-125	0			
Silver	7.275	0.046	0.37	7.364	-0.03572	99.3	75-125	0			

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **119031** Instrument ID **ICP2** Method: **SW846 6010C**

MSD Sample ID: **18051676-02AMSD** Units: **mg/Kg** Analysis Date: **06/01/18 04:59 AM**

Client ID: Run ID: **ICP2_180531A** SeqNo: **5065154** Prep Date: **05/30/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.385	0.096	0.37	7.407	0.3587	94.9	75-125	7.29	1.3	20	
Barium	14.98	0.15	0.37	7.407	5.51	128	75-125	14.82	1.08	20	S
Cadmium	7.4	0.036	0.74	7.407	0.01109	99.8	75-125	7.312	1.19	20	
Chromium	10.19	0.021	0.37	7.407	1.561	116	75-125	9.564	6.3	20	
Lead	8.296	0.079	0.37	7.407	0.7374	102	75-125	8.115	2.21	20	
Selenium	6.956	0.21	0.74	7.407	-0.04541	94.5	75-125	6.811	2.09	20	
Silver	7.348	0.046	0.37	7.407	-0.03572	99.7	75-125	7.275	0.995	20	

The following samples were analyzed in this batch:

18051689-01A	18051689-02A	18051689-03A
18051689-04A	18051689-05A	

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **119100** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-119100-119100** Units: **mg/Kg** Analysis Date: **06/01/18 08:22 PM**
Client ID: Run ID: **ICP2_180601A** SeqNo: **5070267** Prep Date: **05/31/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.065	0.25								
Barium	U	0.1	0.25								
Cadmium	U	0.024	0.50								
Chromium	0.01475	0.014	0.25								J
Lead	U	0.053	0.25								
Selenium	U	0.14	0.50								
Silver	U	0.031	0.25								

LCS Sample ID: **LCS-119100-119100** Units: **mg/Kg** Analysis Date: **06/01/18 08:28 PM**
Client ID: Run ID: **ICP2_180601A** SeqNo: **5070268** Prep Date: **05/31/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.905	0.065	0.25	5	0	98.1	80-120	0			
Barium	5.362	0.1	0.25	5	0	107	80-120	0			
Cadmium	5.188	0.024	0.50	5	0	104	80-120	0			
Chromium	5.254	0.014	0.25	5	0	105	80-120	0			
Lead	5.351	0.053	0.25	5	0	107	80-120	0			
Selenium	4.915	0.14	0.50	5	0	98.3	80-120	0			
Silver	5.094	0.031	0.25	5	0	102	80-120	0			

MS Sample ID: **18051689-17AMS** Units: **mg/Kg** Analysis Date: **06/01/18 10:23 PM**
Client ID: **SB-5 (0-2)** Run ID: **ICP2_180601A** SeqNo: **5070307** Prep Date: **05/31/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.63	0.11	0.41	8.264	6.332	88.4	75-125	0			
Barium	195.4	0.17	0.41	8.264	155.7	481	75-125	0			SO
Cadmium	8.066	0.04	0.83	8.264	0.31	93.8	75-125	0			
Chromium	26.48	0.023	0.41	8.264	6.702	239	75-125	0			S
Lead	14.29	0.088	0.41	8.264	7.171	86.2	75-125	0			
Selenium	7.959	0.23	0.83	8.264	0.5995	89	75-125	0			
Silver	8.182	0.051	0.41	8.264	-0.2418	102	75-125	0			

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **119100** Instrument ID **ICP2** Method: **SW846 6010C**

MSD Sample ID: **18051689-17AMSD** Units: **mg/Kg** Analysis Date: **06/01/18 10:29 PM**
Client ID: **SB-5 (0-2)** Run ID: **ICP2_180601A** SeqNo: **5070311** Prep Date: **05/31/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.11	0.11	0.41	8.237	6.332	82.3	75-125	13.63	3.89	20	
Barium	205	0.16	0.41	8.237	155.7	599	75-125	195.4	4.8	20	SO
Cadmium	8.048	0.04	0.82	8.237	0.31	93.9	75-125	8.066	0.228	20	
Chromium	19.53	0.023	0.41	8.237	6.702	156	75-125	26.48	30.2	20	SR
Lead	14.37	0.087	0.41	8.237	7.171	87.3	75-125	14.29	0.517	20	
Selenium	7.85	0.23	0.82	8.237	0.5995	88	75-125	7.959	1.37	20	
Silver	8.204	0.051	0.41	8.237	-0.2418	103	75-125	8.182	0.274	20	

The following samples were analyzed in this batch:

18051689-06A	18051689-07A	18051689-08A
18051689-09A	18051689-10A	18051689-11A
18051689-12A	18051689-13A	18051689-14A
18051689-15A	18051689-16A	18051689-17A
18051689-18A	18051689-19A	18051689-20A
18051689-21A	18051689-22A	18051689-23A
18051689-24A	18051689-25A	

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **119106** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-119106-119106** Units: **mg/Kg** Analysis Date: **06/01/18 09:34 AM**
Client ID: Run ID: **ICP2_180531A** SeqNo: **5066075** Prep Date: **05/31/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.065	0.25								
Barium	U	0.1	0.25								
Cadmium	U	0.024	0.50								
Chromium	U	0.014	0.25								
Lead	U	0.053	0.25								
Selenium	U	0.14	0.50								
Silver	0.06059	0.031	0.25								J

LCS Sample ID: **LCS-119106-119106** Units: **mg/Kg** Analysis Date: **06/01/18 09:41 AM**
Client ID: Run ID: **ICP2_180531A** SeqNo: **5066076** Prep Date: **05/31/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.501	0.065	0.25	5	0	90	80-120	0			
Barium	5.281	0.1	0.25	5	0	106	80-120	0			
Cadmium	4.868	0.024	0.50	5	0	97.4	80-120	0			
Chromium	5.058	0.014	0.25	5	0	101	80-120	0			
Lead	4.873	0.053	0.25	5	0	97.5	80-120	0			
Selenium	4.596	0.14	0.50	5	0	91.9	80-120	0			
Silver	4.856	0.031	0.25	5	0	97.1	80-120	0			

MS Sample ID: **18052001-01AMS** Units: **mg/Kg** Analysis Date: **06/01/18 09:53 AM**
Client ID: Run ID: **ICP2_180531A** SeqNo: **5066078** Prep Date: **05/31/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.87	0.11	0.41	8.278	5.823	85.1	75-125	0			
Barium	305.6	0.17	0.41	8.278	308.1	-29.8	75-125	0			SO
Cadmium	7.712	0.04	0.83	8.278	0.03032	92.8	75-125	0			
Chromium	29.44	0.023	0.41	8.278	20.54	107	75-125	0			
Lead	11.56	0.088	0.41	8.278	4.869	80.8	75-125	0			
Selenium	7.629	0.23	0.83	8.278	0.1756	90	75-125	0			
Silver	8.338	0.051	0.41	8.278	-0.1066	102	75-125	0			

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **119106** Instrument ID **ICP2** Method: **SW846 6010C**

MSD Sample ID: **18052001-01AMSD** Units: **mg/Kg** Analysis Date: **06/01/18 09:59 AM**
Client ID: Run ID: **ICP2_180531A** SeqNo: **5066079** Prep Date: **05/31/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.25	0.11	0.41	8.264	5.823	89.8	75-125	12.87	2.89	20	
Barium	295	0.17	0.41	8.264	308.1	-159	75-125	305.6	3.54	20	SO
Cadmium	7.708	0.04	0.83	8.264	0.03032	92.9	75-125	7.712	0.0613	20	
Chromium	29.85	0.023	0.41	8.264	20.54	113	75-125	29.44	1.4	20	
Lead	11.51	0.088	0.41	8.264	4.869	80.4	75-125	11.56	0.395	20	
Selenium	7.725	0.23	0.83	8.264	0.1756	91.3	75-125	7.629	1.24	20	
Silver	8.391	0.051	0.41	8.264	-0.1066	103	75-125	8.338	0.628	20	

The following samples were analyzed in this batch:

18051689-26A	18051689-27A	18051689-28A
18051689-29A	18051689-30A	18051689-31A
18051689-32A	18051689-33A	18051689-34A
18051689-35A	18051689-36A	18051689-37A
18051689-38A	18051689-39A	18051689-40A

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **119079** Instrument ID **ICPMS3** Method: **SW6020A**

MBLK Sample ID: **MBLK-119079-119079** Units: **mg/L** Analysis Date: **05/31/18 07:34 PM**
Client ID: Run ID: **ICPMS3_180531A** SeqNo: **5065875** Prep Date: **05/31/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.00019	0.0050								
Barium	U	0.00085	0.0050								
Cadmium	U	0.00004	0.0020								
Chromium	U	0.00061	0.0050								
Lead	U	0.00008	0.0050								
Selenium	U	0.00048	0.0050								
Silver	U	0.00012	0.0050								

LCS Sample ID: **LCS-119079-119079** Units: **mg/L** Analysis Date: **05/31/18 07:36 PM**
Client ID: Run ID: **ICPMS3_180531A** SeqNo: **5065877** Prep Date: **05/31/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09816	0.00019	0.0050	0.1	0	98.2	80-120	0			
Barium	0.1015	0.00085	0.0050	0.1	0	101	80-120	0			
Cadmium	0.1005	0.00004	0.0020	0.1	0	101	80-120	0			
Chromium	0.09958	0.00061	0.0050	0.1	0	99.6	80-120	0			
Lead	0.0987	0.00008	0.0050	0.1	0	98.7	80-120	0			
Selenium	0.09868	0.00048	0.0050	0.1	0	98.7	80-120	0			
Silver	0.09621	0.00012	0.0050	0.1	0	96.2	80-120	0			

MS Sample ID: **18051713-11BMS** Units: **mg/L** Analysis Date: **05/31/18 08:23 PM**
Client ID: Run ID: **ICPMS3_180531A** SeqNo: **5065930** Prep Date: **05/31/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09749	0.00019	0.0050	0.1	0.000152	97.3	75-125	0			
Barium	0.1283	0.00085	0.0050	0.1	0.03153	96.8	75-125	0			
Cadmium	0.1002	0.00004	0.0020	0.1	0.002845	97.4	75-125	0			
Chromium	0.0966	0.00061	0.0050	0.1	0.003359	93.2	75-125	0			
Lead	0.09556	0.00008	0.0050	0.1	0.000906	94.7	75-125	0			
Selenium	0.09882	0.00048	0.0050	0.1	0.001031	97.8	75-125	0			
Silver	0.09274	0.00012	0.0050	0.1	-0.000005	92.7	75-125	0			

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **119079** Instrument ID **ICPMS3** Method: **SW6020A**

MSD Sample ID: **18051713-11BMSD** Units: **mg/L** Analysis Date: **05/31/18 08:25 PM**

Client ID: Run ID: **ICPMS3_180531A** SeqNo: **5065931** Prep Date: **05/31/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09392	0.00019	0.0050	0.1	0.000152	93.8	75-125	0.09749	3.73	20	
Barium	0.1296	0.00085	0.0050	0.1	0.03153	98.1	75-125	0.1283	0.993	20	
Cadmium	0.1004	0.00004	0.0020	0.1	0.002845	97.6	75-125	0.1002	0.21	20	
Chromium	0.09441	0.00061	0.0050	0.1	0.003359	91	75-125	0.0966	2.3	20	
Lead	0.09574	0.00008	0.0050	0.1	0.000906	94.8	75-125	0.09556	0.188	20	
Selenium	0.09207	0.00048	0.0050	0.1	0.001031	91	75-125	0.09882	7.07	20	
Silver	0.08984	0.00012	0.0050	0.1	-0.000005	89.8	75-125	0.09274	3.17	20	

The following samples were analyzed in this batch: 18051689-41D

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **118864** Instrument ID **SVMS9** Method: **SW846 8270D**

MBLK Sample ID: **SBLKW1-118864-118864** Units: **µg/L** Analysis Date: **05/25/18 04:08 PM**
Client ID: Run ID: **SVMS9_180525A** SeqNo: **5058157** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	U	0.42	5.0								
2,4,5-Trichlorophenol	U	0.17	5.0								
2,4,6-Trichlorophenol	U	0.25	5.0								
2,4-Dichlorophenol	U	0.35	5.0								
2,4-Dimethylphenol	U	0.36	5.0								
2,4-Dinitrophenol	U	0.4	5.0								
2,4-Dinitrotoluene	U	0.42	5.0								
2,6-Dinitrotoluene	U	0.11	5.0								
2-Chloronaphthalene	U	0.075	5.0								
2-Chlorophenol	U	0.23	5.0								
2-Methylnaphthalene	U	0.065	5.0								
2-Methylphenol	U	0.25	5.0								
2-Nitroaniline	U	0.21	5.0								
2-Nitrophenol	U	0.34	5.0								
3&4-Methylphenol	U	0.21	5.0								
3,3´-Dichlorobenzidine	U	1.6	5.0								
3-Nitroaniline	U	0.64	5.0								
4,6-Dinitro-2-methylphenol	U	0.27	5.0								
4-Bromophenyl phenyl ether	U	0.33	5.0								
4-Chloro-3-methylphenol	U	0.26	5.0								
4-Chloroaniline	U	0.34	5.0								
4-Chlorophenyl phenyl ether	U	0.31	5.0								
4-Nitroaniline	U	0.57	5.0								
4-Nitrophenol	U	0.24	5.0								
Acenaphthene	U	0.081	5.0								
Acenaphthylene	U	0.075	5.0								
Acetophenone	U	0.37	1.0								
Anthracene	U	0.028	5.0								
Atrazine	U	0.35	1.0								
Benzaldehyde	U	0.52	1.0								
Benzo(a)anthracene	U	0.022	5.0								
Benzo(a)pyrene	U	0.044	5.0								
Benzo(b)fluoranthene	U	0.051	5.0								
Benzo(g,h,i)perylene	U	0.03	5.0								
Benzo(k)fluoranthene	U	0.048	5.0								
Bis(2-chloroethoxy)methane	U	0.29	5.0								
Bis(2-chloroethyl)ether	U	0.37	5.0								
Bis(2-chloroisopropyl)ether	U	0.23	5.0								
Bis(2-ethylhexyl)phthalate	U	0.4	5.0								
Butyl benzyl phthalate	U	0.3	5.0								
Caprolactam	U	0.96	10								
Carbazole	U	0.1	5.0								
Chrysene	U	0.048	5.0								

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

Batch ID: **118864** Instrument ID **SVMS9** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	U	0.03	5.0					
Dibenzofuran	U	0.23	5.0					
Diethyl phthalate	U	0.17	5.0					
Dimethyl phthalate	U	0.18	5.0					
Di-n-butyl phthalate	U	0.21	5.0					
Di-n-octyl phthalate	U	0.15	5.0					
Fluoranthene	U	0.038	5.0					
Fluorene	U	0.051	5.0					
Hexachlorobenzene	U	0.44	5.0					
Hexachlorobutadiene	U	0.28	5.0					
Hexachlorocyclopentadiene	U	1.1	5.0					
Hexachloroethane	U	0.21	5.0					
Indeno(1,2,3-cd)pyrene	U	0.067	5.0					
Isophorone	U	0.34	5.0					
Naphthalene	U	0.067	5.0					
Nitrobenzene	U	0.26	5.0					
N-Nitrosodi-n-propylamine	U	0.35	5.0					
N-Nitrosodiphenylamine	U	0.23	5.0					
Pentachlorophenol	U	0.97	5.0					
Phenanthrene	U	0.03	5.0					
Phenol	U	0.21	5.0					
Pyrene	U	0.036	5.0					
Surr: 2,4,6-Tribromophenol	*33.07*	0	0	*50*	0	*66.1*	*27-83*	0
Surr: 2-Fluorobiphenyl	*30.29*	0	0	*50*	0	*60.6*	*26-79*	0
Surr: 2-Fluorophenol	*24.26*	0	0	*50*	0	*48.5*	*13-56*	0
Surr: 4-Terphenyl-d14	*44.93*	0	0	*50*	0	*89.9*	*43-106*	0
Surr: Nitrobenzene-d5	*30.22*	0	0	*50*	0	*60.4*	*29-80*	0
Surr: Phenol-d6	*15.37*	0	0	*50*	0	*30.7*	*10-35*	0

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **118864** Instrument ID **SVMS9** Method: **SW846 8270D**

LCS Sample ID: **SLCSW1-118864-118864** Units: **µg/L** Analysis Date: **05/25/18 04:32 PM**
Client ID: Run ID: **SVMS9_180525A** SeqNo: **5058158** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	12.23	0.42	5.0	20	0	61.2	40-85	0			
2,4,5-Trichlorophenol	12.8	0.17	5.0	20	0	64	47-84	0			
2,4,6-Trichlorophenol	11.99	0.25	5.0	20	0	60	45-83	0			
2,4-Dichlorophenol	12.68	0.35	5.0	20	0	63.4	39-84	0			
2,4-Dimethylphenol	12.69	0.36	5.0	20	0	63.4	34-79	0			
2,4-Dinitrophenol	14.06	0.4	5.0	20	0	70.3	11-117	0			
2,4-Dinitrotoluene	12.82	0.42	5.0	20	0	64.1	54-93	0			
2,6-Dinitrotoluene	12.64	0.11	5.0	20	0	63.2	51-90	0			
2-Chloronaphthalene	11.08	0.075	5.0	20	0	55.4	37-84	0			
2-Chlorophenol	12.5	0.23	5.0	20	0	62.5	38-83	0			
2-Methylnaphthalene	11.15	0.065	5.0	20	0	55.8	33-85	0			
2-Methylphenol	12.35	0.25	5.0	20	0	61.8	29-76	0			
2-Nitroaniline	12.03	0.21	5.0	20	0	60.2	45-94	0			
2-Nitrophenol	12.87	0.34	5.0	20	0	64.4	41-84	0			
3&4-Methylphenol	11.67	0.21	5.0	20	0	58.4	24-70	0			
3,3´-Dichlorobenzidine	13.86	1.6	5.0	20	0	69.3	39-96	0			
3-Nitroaniline	12.77	0.64	5.0	20	0	63.8	50-93	0			
4,6-Dinitro-2-methylphenol	15.24	0.27	5.0	20	0	76.2	23-116	0			
4-Bromophenyl phenyl ether	13.24	0.33	5.0	20	0	66.2	51-93	0			
4-Chloro-3-methylphenol	12.76	0.26	5.0	20	0	63.8	41-86	0			
4-Chloroaniline	13.78	0.34	5.0	20	0	68.9	44-92	0			
4-Chlorophenyl phenyl ether	12.36	0.31	5.0	20	0	61.8	49-89	0			
4-Nitroaniline	12.67	0.57	5.0	20	0	63.4	47-98	0			
4-Nitrophenol	7.35	0.24	5.0	20	0	36.8	10-43	0			
Acenaphthene	12.04	0.081	5.0	20	0	60.2	42-85	0			
Acenaphthylene	12.2	0.075	5.0	20	0	61	42-88	0			
Acetophenone	12.88	0.37	1.0	20	0	64.4	39-91	0			
Anthracene	13.97	0.028	5.0	20	0	69.8	55-93	0			
Atrazine	14.68	0.35	1.0	20	0	73.4	52-100	0			
Benzaldehyde	15.11	0.52	1.0	20	0	75.6	42-110	0			
Benzo(a)anthracene	14.44	0.022	5.0	20	0	72.2	56-91	0			
Benzo(a)pyrene	14.89	0.044	5.0	20	0	74.4	55-96	0			
Benzo(b)fluoranthene	15.18	0.051	5.0	20	0	75.9	55-99	0			
Benzo(g,h,i)perylene	15.9	0.03	5.0	20	0	79.5	44-102	0			
Benzo(k)fluoranthene	14.73	0.048	5.0	20	0	73.6	57-96	0			
Bis(2-chloroethoxy)methane	12.76	0.29	5.0	20	0	63.8	39-88	0			
Bis(2-chloroethyl)ether	13.5	0.37	5.0	20	0	67.5	36-91	0			
Bis(2-ethylhexyl)phthalate	15.1	0.4	5.0	20	0	75.5	39-113	0			
Butyl benzyl phthalate	13.01	0.3	5.0	20	0	65	49-97	0			
Carbazole	14.51	0.1	5.0	20	0	72.6	59-92	0			
Chrysene	14.69	0.048	5.0	20	0	73.4	55-92	0			
Dibenzo(a,h)anthracene	16.16	0.03	5.0	20	0	80.8	47-100	0			
Dibenzofuran	12.51	0.23	5.0	20	0	62.6	44-89	0			

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

Batch ID: **118864** Instrument ID **SVMS9** Method: **SW846 8270D**

Diethyl phthalate	12.13	0.17	5.0	20	0	60.6	54-95	0
Dimethyl phthalate	12.87	0.18	5.0	20	0	64.4	51-92	0
Di-n-butyl phthalate	14.46	0.21	5.0	20	0	72.3	57-98	0
Di-n-octyl phthalate	14.94	0.15	5.0	20	0	74.7	36-117	0
Fluoranthene	14.99	0.038	5.0	20	0	75	59-93	0
Fluorene	12.5	0.051	5.0	20	0	62.5	47-91	0
Hexachlorobenzene	13.69	0.44	5.0	20	0	68.4	53-89	0
Hexachlorobutadiene	8.15	0.28	5.0	20	0	40.8	11-83	0
Hexachlorocyclopentadiene	7.37	1.1	5.0	20	0	36.8	14-75	0
Hexachloroethane	7.73	0.21	5.0	20	0	38.6	10-85	0
Indeno(1,2,3-cd)pyrene	16.16	0.067	5.0	20	0	80.8	46-102	0
Isophorone	13.3	0.34	5.0	20	0	66.5	42-90	0
Naphthalene	10.98	0.067	5.0	20	0	54.9	26-78	0
Nitrobenzene	12.56	0.26	5.0	20	0	62.8	38-86	0
N-Nitrosodi-n-propylamine	13.6	0.35	5.0	20	0	68	39-95	0
N-Nitrosodiphenylamine	13.34	0.23	5.0	20	0	66.7	47-94	0
Pentachlorophenol	15.73	0.97	5.0	20	0	78.6	37-94	0
Phenanthrene	13.84	0.03	5.0	20	0	69.2	51-90	0
Phenol	7.42	0.21	5.0	20	0	37.1	10-40	0
Pyrene	12.87	0.036	5.0	20	0	64.4	48-98	0
Surr: 2,4,6-Tribromophenol	*36.26*	0	0	*50*	0	*72.5*	*27-83*	0
Surr: 2-Fluorobiphenyl	*28.48*	0	0	*50*	0	*57*	*26-79*	0
Surr: 2-Fluorophenol	*22.79*	0	0	*50*	0	*45.6*	*13-56*	0
Surr: 4-Terphenyl-d14	*36.74*	0	0	*50*	0	*73.5*	*43-106*	0
Surr: Nitrobenzene-d5	*29.66*	0	0	*50*	0	*59.3*	*29-80*	0
Surr: Phenol-d6	*14.88*	0	0	*50*	0	*29.8*	*10-35*	0

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **118864** Instrument ID **SVMS9** Method: **SW846 8270D**

MS Sample ID: **18051365-06B MS** Units: **µg/L** Analysis Date: **05/25/18 04:55 PM**
Client ID: Run ID: **SVMS9_180525A** SeqNo: **5058159** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	227	8.4	100	400	0	56.8	40-85	0			
2,4,5-Trichlorophenol	232	3.4	100	400	0	58	47-84	0			
2,4,6-Trichlorophenol	214	5	100	400	0	53.5	45-83	0			
2,4-Dichlorophenol	228.4	7	100	400	0	57.1	39-84	0			
2,4-Dimethylphenol	218.2	7.2	100	400	0	54.6	34-79	0			
2,4-Dinitrophenol	260.4	8	100	400	0	65.1	11-117	0			
2,4-Dinitrotoluene	231.2	8.4	100	400	0	57.8	54-93	0			
2,6-Dinitrotoluene	225.4	2.2	100	400	0	56.4	51-90	0			
2-Chloronaphthalene	209.8	1.5	100	400	0	52.4	37-84	0			
2-Chlorophenol	223	4.6	100	400	0	55.8	38-83	0			
2-Methylnaphthalene	218.4	1.3	100	400	0	54.6	33-85	0			
2-Methylphenol	219.4	5	100	400	0	54.8	29-76	0			
2-Nitroaniline	213.4	4.2	100	400	0	53.4	45-94	0			
2-Nitrophenol	230.8	6.8	100	400	0	57.7	41-84	0			
3&4-Methylphenol	204.8	4.2	100	400	0	51.2	24-70	0			
3,3´-Dichlorobenzidine	225.2	32	100	400	0	56.3	39-96	0			
3-Nitroaniline	213.6	13	100	400	0	53.4	50-93	0			
4,6-Dinitro-2-methylphenol	286.6	5.4	100	400	0	71.6	23-116	0			
4-Bromophenyl phenyl ether	242.4	6.6	100	400	0	60.6	51-93	0			
4-Chloro-3-methylphenol	233	5.2	100	400	0	58.2	41-86	0			
4-Chloroaniline	232.4	6.8	100	400	0	58.1	44-92	0			
4-Chlorophenyl phenyl ether	221.2	6.2	100	400	0	55.3	49-89	0			
4-Nitroaniline	220	11	100	400	0	55	47-98	0			
4-Nitrophenol	140.6	4.8	100	400	0	35.2	10-43	0			
Acenaphthene	223.4	1.6	100	400	0	55.8	42-85	0			
Acenaphthylene	222.2	1.5	100	400	0	55.6	42-88	0			
Acetophenone	223	7.4	20	400	0	55.8	39-91	0			
Anthracene	258.6	0.56	100	400	0	64.6	55-93	0			
Atrazine	260.4	7	20	400	0	65.1	52-100	0			
Benzaldehyde	271	10	20	400	0	67.8	42-110	0			
Benzo(a)anthracene	266.2	0.44	100	400	0	66.6	56-91	0			
Benzo(a)pyrene	280.4	0.88	100	400	0	70.1	55-96	0			
Benzo(b)fluoranthene	286.8	1	100	400	0	71.7	55-99	0			
Benzo(g,h,i)perylene	299.4	0.6	100	400	0	74.8	44-102	0			
Benzo(k)fluoranthene	258.8	0.96	100	400	0	64.7	57-96	0			
Bis(2-chloroethoxy)methane	228	5.8	100	400	0	57	39-88	0			
Bis(2-chloroethyl)ether	245.8	7.4	100	400	0	61.4	36-91	0			
Bis(2-ethylhexyl)phthalate	283.8	8	100	400	0	71	39-113	0			
Butyl benzyl phthalate	252.2	6	100	400	0	63	49-97	0			
Carbazole	268.4	2	100	400	0	67.1	59-92	0			
Chrysene	282	0.96	100	400	0	70.5	55-92	0			
Dibenzo(a,h)anthracene	303.4	0.6	100	400	0	75.8	47-100	0			
Dibenzofuran	218.6	4.6	100	400	0	54.6	44-89	0			

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

Batch ID: **118864**	Instrument ID **SVMS9**			Method: **SW846 8270D**				
Diethyl phthalate	216.2	3.4	100	400	0	54	54-95	0
Dimethyl phthalate	231	3.6	100	400	0	57.8	51-92	0
Di-n-butyl phthalate	270.4	4.2	100	400	0	67.6	57-98	0
Di-n-octyl phthalate	277.2	3	100	400	0	69.3	36-117	0
Fluoranthene	278	0.76	100	400	0	69.5	59-93	0
Fluorene	222.8	1	100	400	0	55.7	47-91	0
Hexachlorobenzene	254	8.8	100	400	0	63.5	53-89	0
Hexachlorobutadiene	175.8	5.6	100	400	0	44	11-83	0
Hexachlorocyclopentadiene	165.4	22	100	400	0	41.4	14-75	0
Hexachloroethane	158.4	4.2	100	400	0	39.6	10-85	0
Indeno(1,2,3-cd)pyrene	301.4	1.3	100	400	0	75.4	46-102	0
Isophorone	237.4	6.8	100	400	0	59.4	42-90	0
Naphthalene	204	1.3	100	400	0	51	26-78	0
Nitrobenzene	228	5.2	100	400	0	57	38-86	0
N-Nitrosodi-n-propylamine	231	7	100	400	0	57.8	39-95	0
N-Nitrosodiphenylamine	251.4	4.6	100	400	0	62.8	47-94	0
Pentachlorophenol	303.8	19	100	400	0	76	37-94	0
Phenanthrene	255	0.6	100	400	0	63.8	51-90	0
Phenol	137.6	4.2	100	400	0	34.4	10-40	0
Pyrene	249.2	0.72	100	400	0	62.3	48-98	0
Surr: 2,4,6-Tribromophenol	*675*	0	0	*1000*	0	*67.5*	*27-83*	0
Surr: 2-Fluorobiphenyl	*523.2*	0	0	*1000*	0	*52.3*	*26-79*	0
Surr: 2-Fluorophenol	*405.4*	0	0	*1000*	0	*40.5*	*13-56*	0
Surr: 4-Terphenyl-d14	*704.8*	0	0	*1000*	0	*70.5*	*43-106*	0
Surr: Nitrobenzene-d5	*526.4*	0	0	*1000*	0	*52.6*	*29-80*	0
Surr: Phenol-d6	*269.4*	0	0	*1000*	0	*26.9*	*10-35*	0

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **118864** Instrument ID **SVMS9** Method: **SW846 8270D**

MSD Sample ID: **18051365-06B MSD** Units: **µg/L** Analysis Date: **05/25/18 05:18 PM**
Client ID: Run ID: **SVMS9_180525A** SeqNo: **5058160** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	249.2	8.4	100	400	0	62.3	40-85	227	9.32	30	
2,4,5-Trichlorophenol	259.2	3.4	100	400	0	64.8	47-84	232	11.1	30	
2,4,6-Trichlorophenol	240.2	5	100	400	0	60	45-83	214	11.5	30	
2,4-Dichlorophenol	250.4	7	100	400	0	62.6	39-84	228.4	9.19	30	
2,4-Dimethylphenol	246	7.2	100	400	0	61.5	34-79	218.2	12	30	
2,4-Dinitrophenol	287.2	8	100	400	0	71.8	11-117	260.4	9.79	30	
2,4-Dinitrotoluene	259.6	8.4	100	400	0	64.9	54-93	231.2	11.6	30	
2,6-Dinitrotoluene	251	2.2	100	400	0	62.8	51-90	225.4	10.7	30	
2-Chloronaphthalene	231.6	1.5	100	400	0	57.9	37-84	209.8	9.88	30	
2-Chlorophenol	241.4	4.6	100	400	0	60.4	38-83	223	7.92	30	
2-Methylnaphthalene	237.6	1.3	100	400	0	59.4	33-85	218.4	8.42	30	
2-Methylphenol	246	5	100	400	0	61.5	29-76	219.4	11.4	30	
2-Nitroaniline	247.4	4.2	100	400	0	61.8	45-94	213.4	14.8	30	
2-Nitrophenol	252.4	6.8	100	400	0	63.1	41-84	230.8	8.94	30	
3&4-Methylphenol	238	4.2	100	400	0	59.5	24-70	204.8	15	30	
3,3´-Dichlorobenzidine	250	32	100	400	0	62.5	39-96	225.2	10.4	30	
3-Nitroaniline	238.4	13	100	400	0	59.6	50-93	213.6	11	30	
4,6-Dinitro-2-methylphenol	305.6	5.4	100	400	0	76.4	23-116	286.6	6.42	30	
4-Bromophenyl phenyl ether	269.6	6.6	100	400	0	67.4	51-93	242.4	10.6	30	
4-Chloro-3-methylphenol	258.4	5.2	100	400	0	64.6	41-86	233	10.3	30	
4-Chloroaniline	247.6	6.8	100	400	0	61.9	44-92	232.4	6.33	30	
4-Chlorophenyl phenyl ether	247	6.2	100	400	0	61.8	49-89	221.2	11	30	
4-Nitroaniline	234.6	11	100	400	0	58.6	47-98	220	6.42	30	
4-Nitrophenol	163.4	4.8	100	400	0	40.8	10-43	140.6	15	30	
Acenaphthene	241	1.6	100	400	0	60.2	42-85	223.4	7.58	30	
Acenaphthylene	246.4	1.5	100	400	0	61.6	42-88	222.2	10.3	30	
Acetophenone	249.2	7.4	20	400	0	62.3	39-91	223	11.1	30	
Anthracene	275.6	0.56	100	400	0	68.9	55-93	258.6	6.36	30	
Atrazine	281.6	7	20	400	0	70.4	52-100	260.4	7.82	30	
Benzaldehyde	299.4	10	20	400	0	74.8	42-110	271	9.96	30	
Benzo(a)anthracene	292	0.44	100	400	0	73	56-91	266.2	9.24	30	
Benzo(a)pyrene	301.8	0.88	100	400	0	75.4	55-96	280.4	7.35	30	
Benzo(b)fluoranthene	303.4	1	100	400	0	75.8	55-99	286.8	5.63	30	
Benzo(g,h,i)perylene	314.8	0.6	100	400	0	78.7	44-102	299.4	5.01	30	
Benzo(k)fluoranthene	282.2	0.96	100	400	0	70.6	57-96	258.8	8.65	30	
Bis(2-chloroethoxy)methane	250.8	5.8	100	400	0	62.7	39-88	228	9.52	30	
Bis(2-chloroethyl)ether	256.8	7.4	100	400	0	64.2	36-91	245.8	4.38	30	
Bis(2-ethylhexyl)phthalate	314	8	100	400	0	78.5	39-113	283.8	10.1	30	
Butyl benzyl phthalate	280.2	6	100	400	0	70	49-97	252.2	10.5	30	
Carbazole	280.8	2	100	400	0	70.2	59-92	268.4	4.52	30	
Chrysene	295.2	0.96	100	400	0	73.8	55-92	282	4.57	30	
Dibenzo(a,h)anthracene	316.6	0.6	100	400	0	79.2	47-100	303.4	4.26	30	
Dibenzofuran	237.6	4.6	100	400	0	59.4	44-89	218.6	8.33	30	

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

QC BATCH REPORT

Batch ID: **118864** Instrument ID **SVMS9** Method: **SW846 8270D**

Diethyl phthalate	241	3.4	100	400	0	60.2	54-95	216.2	10.8	30	
Dimethyl phthalate	256.6	3.6	100	400	0	64.2	51-92	231	10.5	30	
Di-n-butyl phthalate	287.8	4.2	100	400	0	72	57-98	270.4	6.23	30	
Di-n-octyl phthalate	306.4	3	100	400	0	76.6	36-117	277.2	10	30	
Fluoranthene	289.2	0.76	100	400	0	72.3	59-93	278	3.95	30	
Fluorene	249.2	1	100	400	0	62.3	47-91	222.8	11.2	30	
Hexachlorobenzene	276.6	8.8	100	400	0	69.2	53-89	254	8.52	30	
Hexachlorobutadiene	202.8	5.6	100	400	0	50.7	11-83	175.8	14.3	30	
Hexachlorocyclopentadiene	192.4	22	100	400	0	48.1	14-75	165.4	15.1	30	
Hexachloroethane	184.6	4.2	100	400	0	46.2	10-85	158.4	15.3	30	
Indeno(1,2,3-cd)pyrene	326.2	1.3	100	400	0	81.6	46-102	301.4	7.9	30	
Isophorone	264.6	6.8	100	400	0	66.2	42-90	237.4	10.8	30	
Naphthalene	226.2	1.3	100	400	0	56.6	26-78	204	10.3	30	
Nitrobenzene	248.2	5.2	100	400	0	62	38-86	228	8.48	30	
N-Nitrosodi-n-propylamine	263.6	7	100	400	0	65.9	39-95	231	13.2	30	
N-Nitrosodiphenylamine	264.6	4.6	100	400	0	66.2	47-94	251.4	5.12	30	
Pentachlorophenol	315.2	19	100	400	0	78.8	37-94	303.8	3.68	30	
Phenanthrene	275.2	0.6	100	400	0	68.8	51-90	255	7.62	30	
Phenol	160.8	4.2	100	400	0	40.2	10-40	137.6	15.5	30	S
Pyrene	273.4	0.72	100	400	0	68.4	48-98	249.2	9.26	30	
Surr: 2,4,6-Tribromophenol	*737.6*	0	0	*1000*	0	*73.8*	*27-83*	675	*8.86*	*40*	
Surr: 2-Fluorobiphenyl	*581*	0	0	*1000*	0	*58.1*	*26-79*	523.2	*10.5*	*40*	
Surr: 2-Fluorophenol	*479.4*	0	0	*1000*	0	*47.9*	*13-56*	405.4	*16.7*	*40*	
Surr: 4-Terphenyl-d14	*778*	0	0	*1000*	0	*77.8*	*43-106*	704.8	*9.87*	*40*	
Surr: Nitrobenzene-d5	*588.2*	0	0	*1000*	0	*58.8*	*29-80*	526.4	*11.1*	*40*	
Surr: Phenol-d6	*329.6*	0	0	*1000*	0	*33*	*10-35*	269.4	*20.1*	*40*	

The following samples were analyzed in this batch: 18051689-41C

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **118977** Instrument ID **SVMS9** Method: **SW846 8270D**

MBLK Sample ID: **SBLKS1-118977-118977** Units: **µg/Kg** Analysis Date: **05/30/18 02:53 PM**
Client ID: Run ID: **SVMS9_180530A** SeqNo: **5063208** Prep Date: **05/30/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	U	5.4	33								
2,4,5-Trichlorophenol	U	9.1	33								
2,4,6-Trichlorophenol	U	8.9	33								
2,4-Dichlorophenol	U	7	33								
2,4-Dimethylphenol	U	6.8	33								
2,4-Dinitrophenol	U	18	33								
2,4-Dinitrotoluene	U	8.7	33								
2,6-Dinitrotoluene	U	5.5	33								
2-Chloronaphthalene	U	4.7	6.7								
2-Chlorophenol	U	10	33								
2-Methylnaphthalene	U	3.4	6.7								
2-Methylphenol	U	9	33								
2-Nitroaniline	U	7.6	33								
2-Nitrophenol	U	9.5	33								
3&4-Methylphenol	U	6.7	33								
3,3´-Dichlorobenzidine	U	5	170								
3-Nitroaniline	U	7.6	33								
4,6-Dinitro-2-methylphenol	U	8.4	33								
4-Bromophenyl phenyl ether	U	9	33								
4-Chloro-3-methylphenol	U	9.5	33								
4-Chloroaniline	U	5.3	67								
4-Chlorophenyl phenyl ether	U	9.2	33								
4-Nitroaniline	U	52	170								
4-Nitrophenol	U	30	33								
Acenaphthene	U	4.8	6.7								
Acenaphthylene	U	5.8	6.7								
Acetophenone	U	5.2	33								
Anthracene	U	4.7	6.7								
Atrazine	U	5.2	33								
Benzaldehyde	U	51	67								
Benzo(a)anthracene	U	5.8	6.7								
Benzo(a)pyrene	U	4.1	6.7								
Benzo(b)fluoranthene	U	5	6.7								
Benzo(g,h,i)perylene	U	5.1	6.7								
Benzo(k)fluoranthene	U	5	6.7								
Bis(2-chloroethoxy)methane	U	3.2	33								
Bis(2-chloroethyl)ether	U	9.4	33								
Bis(2-chloroisopropyl)ether	U	7.8	33								
Bis(2-ethylhexyl)phthalate	U	5.8	33								
Butyl benzyl phthalate	U	5.6	33								
Caprolactam	U	11	33								
Carbazole	U	3.6	33								
Chrysene	U	5.4	6.7								

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

Batch ID: **118977** Instrument ID **SVMS9** Method: **SW846 8270D**

Dibenzo(a,h)anthracene	U	3.6	6.7					
Dibenzofuran	U	4.9	33					
Diethyl phthalate	U	5.1	33					
Dimethyl phthalate	U	6.5	33					
Di-n-butyl phthalate	U	6.1	33					
Di-n-octyl phthalate	U	6.4	33					
Fluoranthene	U	3.2	6.7					
Fluorene	U	4.8	6.7					
Hexachlorobenzene	U	9.7	33					
Hexachlorobutadiene	U	18	33					
Hexachlorocyclopentadiene	U	11	33					
Hexachloroethane	U	14	33					
Indeno(1,2,3-cd)pyrene	U	4.6	6.7					
Isophorone	U	6.5	170					
Naphthalene	U	4.3	6.7					
Nitrobenzene	U	11	170					
N-Nitrosodi-n-propylamine	U	5.5	33					
N-Nitrosodiphenylamine	U	3.2	33					
Pentachlorophenol	U	12	33					
Phenanthrene	U	3.1	6.7					
Phenol	U	8.3	33					
Pyrene	U	1.2	6.7					
Surr: 2,4,6-Tribromophenol	*1979*	0	0	*3333*	0	*59.4*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2109*	0	0	*3333*	0	*63.3*	*44-107*	0
Surr: 2-Fluorophenol	*2312*	0	0	*3333*	0	*69.4*	*37-109*	0
Surr: 4-Terphenyl-d14	*2907*	0	0	*3333*	0	*87.2*	*52-123*	0
Surr: Nitrobenzene-d5	*2094*	0	0	*3333*	0	*62.8*	*41-94*	0
Surr: Phenol-d6	*2145*	0	0	*3333*	0	*64.4*	*28-111*	0

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **118977** Instrument ID **SVMS9** Method: **SW846 8270D**

LCS Sample ID: **SLCSS1-118977-118977** Units: **µg/Kg** Analysis Date: **05/30/18 03:18 PM**
Client ID: Run ID: **SVMS9_180530A** SeqNo: **5063209** Prep Date: **05/30/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	952	5.4	33	1333	0	71.4	53-97	0			
2,4,5-Trichlorophenol	910.7	9.1	33	1333	0	68.3	52-111	0			
2,4,6-Trichlorophenol	826	8.9	33	1333	0	62	46-105	0			
2,4-Dichlorophenol	903.3	7	33	1333	0	67.8	47-96	0			
2,4-Dimethylphenol	1008	6.8	33	1333	0	75.6	49-97	0			
2,4-Dinitrophenol	271.3	18	33	1333	0	20.4	10-106	0			
2,4-Dinitrotoluene	854.7	8.7	33	1333	0	64.1	58-110	0			
2,6-Dinitrotoluene	910.7	5.5	33	1333	0	68.3	59-108	0			
2-Chloronaphthalene	928.7	4.7	6.7	1333	0	69.7	56-104	0			
2-Chlorophenol	930	10	33	1333	0	69.8	50-104	0			
2-Methylnaphthalene	965.3	3.4	6.7	1333	0	72.4	54-96	0			
2-Methylphenol	997.3	9	33	1333	0	74.8	49-105	0			
2-Nitroaniline	914	7.6	33	1333	0	68.6	54-107	0			
2-Nitrophenol	947.3	9.5	33	1333	0	71.1	51-94	0			
3&4-Methylphenol	992.7	6.7	33	1333	0	74.5	48-105	0			
3,3´-Dichlorobenzidine	868.7	5	170	1333	0	65.2	39-99	0			
3-Nitroaniline	756.7	7.6	33	1333	0	56.8	17-92	0			
4,6-Dinitro-2-methylphenol	618.7	8.4	33	1333	0	46.4	32-103	0			
4-Bromophenyl phenyl ether	1003	9	33	1333	0	75.3	60-106	0			
4-Chloro-3-methylphenol	935.3	9.5	33	1333	0	70.2	51-101	0			
4-Chloroaniline	776.7	5.3	67	1333	0	58.3	27-110	0			
4-Chlorophenyl phenyl ether	904.7	9.2	33	1333	0	67.9	58-106	0			
4-Nitroaniline	748.7	52	170	1333	0	56.2	21-100	0			
4-Nitrophenol	912.7	30	33	1333	0	68.5	29-120	0			
Acenaphthene	902.7	4.8	6.7	1333	0	67.7	55-101	0			
Acenaphthylene	962	5.8	6.7	1333	0	72.2	59-106	0			
Acetophenone	942.7	5.2	33	1333	0	70.7	51-100	0			
Anthracene	1012	4.7	6.7	1333	0	75.9	67-105	0			
Atrazine	864	5.2	33	1333	0	64.8	45-125	0			
Benzaldehyde	493.3	51	67	1333	0	37	10-120	0			
Benzo(a)anthracene	1009	5.8	6.7	1333	0	75.7	68-105	0			
Benzo(a)pyrene	1053	4.1	6.7	1333	0	79	68-110	0			
Benzo(b)fluoranthene	1101	5	6.7	1333	0	82.6	65-110	0			
Benzo(g,h,i)perylene	1125	5.1	6.7	1333	0	84.4	60-120	0			
Benzo(k)fluoranthene	998.7	5	6.7	1333	0	74.9	66-113	0			
Bis(2-chloroethoxy)methane	945.3	3.2	33	1333	0	70.9	53-96	0			
Bis(2-chloroethyl)ether	1007	9.4	33	1333	0	75.6	47-108	0			
Bis(2-ethylhexyl)phthalate	947.3	5.8	33	1333	0	71.1	59-117	0			
Butyl benzyl phthalate	870.7	5.6	33	1333	0	65.3	59-106	0			
Caprolactam	818.7	11	33	1333	0	61.4	42-105	0			
Carbazole	992.7	3.6	33	1333	0	74.5	67-108	0			
Chrysene	1085	5.4	6.7	1333	0	81.4	68-108	0			
Dibenzo(a,h)anthracene	1138	3.6	6.7	1333	0	85.4	62-119	0			

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

Batch ID: **118977** Instrument ID **SVMS9** Method: **SW846 8270D**

Dibenzofuran	912.7	4.9	33	1333	0	68.5	60-104	0
Diethyl phthalate	830	5.1	33	1333	0	62.3	62-111	0
Dimethyl phthalate	901.3	6.5	33	1333	0	67.6	62-106	0
Di-n-butyl phthalate	902	6.1	33	1333	0	67.7	59-105	0
Di-n-octyl phthalate	915.3	6.4	33	1333	0	68.7	51-123	0
Fluoranthene	982	3.2	6.7	1333	0	73.7	67-106	0
Fluorene	924.7	4.8	6.7	1333	0	69.4	59-107	0
Hexachlorobenzene	1030	9.7	33	1333	0	77.3	62-103	0
Hexachlorobutadiene	908	18	33	1333	0	68.1	51-94	0
Hexachlorocyclopentadiene	730.7	11	33	1333	0	54.8	25-120	0
Hexachloroethane	894	14	33	1333	0	67.1	55-93	0
Indeno(1,2,3-cd)pyrene	1089	4.6	6.7	1333	0	81.7	56-120	0
Isophorone	955.3	6.5	170	1333	0	71.7	52-99	0
Naphthalene	936	4.3	6.7	1333	0	70.2	46-98	0
Nitrobenzene	982	11	170	1333	0	73.7	53-95	0
N-Nitrosodi-n-propylamine	992	5.5	33	1333	0	74.4	50-104	0
N-Nitrosodiphenylamine	1036	3.2	33	1333	0	77.7	63-107	0
Pentachlorophenol	615.3	12	33	1333	0	46.2	34-106	0
Phenanthrene	1033	3.1	6.7	1333	0	77.5	66-101	0
Phenol	967.3	8.3	33	1333	0	72.6	44-109	0
Pyrene	1027	1.2	6.7	1333	0	77	60-119	0
Surr: 2,4,6-Tribromophenol	*2513*	0	0	*3333*	0	*75.4*	*38-92*	0
Surr: 2-Fluorobiphenyl	*2247*	0	0	*3333*	0	*67.4*	*44-107*	0
Surr: 2-Fluorophenol	*2295*	0	0	*3333*	0	*68.8*	*37-109*	0
Surr: 4-Terphenyl-d14	*2707*	0	0	*3333*	0	*81.2*	*52-123*	0
Surr: Nitrobenzene-d5	*2265*	0	0	*3333*	0	*67.9*	*41-94*	0
Surr: Phenol-d6	*2505*	0	0	*3333*	0	*75.1*	*28-111*	0

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **118977** Instrument ID **SVMS9** Method: **SW846 8270D**

MS Sample ID: **18051689-18A MS** Units: **µg/Kg** Analysis Date: **05/30/18 07:24 PM**
Client ID: **SB-5 (4)** Run ID: **SVMS9_180530A** SeqNo: **5064518** Prep Date: **05/30/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	865.1	5.2	32	1283	0	67.4	53-97	0			
2,4,5-Trichlorophenol	806.7	8.8	32	1283	0	62.9	52-111	0			
2,4,6-Trichlorophenol	777.2	8.5	32	1283	0	60.6	46-105	0			
2,4-Dichlorophenol	824.7	6.8	32	1283	0	64.3	47-96	0			
2,4-Dimethylphenol	776.5	6.6	32	1283	0	60.5	49-97	0			
2,4-Dinitrophenol	181	17	32	1283	0	14.1	10-106	0			
2,4-Dinitrotoluene	791.9	8.4	32	1283	0	61.7	58-110	0			
2,6-Dinitrotoluene	813.8	5.3	32	1283	0	63.4	59-108	0			
2-Chloronaphthalene	836.9	4.5	6.4	1283	0	65.2	56-104	0			
2-Chlorophenol	832.4	10	32	1283	0	64.9	50-104	0			
2-Methylnaphthalene	876	3.3	6.4	1283	0	68.3	54-96	0			
2-Methylphenol	853.5	8.7	32	1283	0	66.5	49-105	0			
2-Nitroaniline	831.7	7.4	32	1283	0	64.8	54-107	0			
2-Nitrophenol	870.9	9.1	32	1283	0	67.9	51-94	0			
3&4-Methylphenol	851	6.4	32	1283	0	66.3	48-105	0			
3,3´-Dichlorobenzidine	751.5	4.8	160	1283	0	58.6	39-99	0			
3-Nitroaniline	718.8	7.4	32	1283	0	56	17-92	0			
4,6-Dinitro-2-methylphenol	648.8	8.1	32	1283	0	50.6	32-103	0			
4-Bromophenyl phenyl ether	895.3	8.6	32	1283	0	69.8	60-106	0			
4-Chloro-3-methylphenol	849.1	9.1	32	1283	0	66.2	51-101	0			
4-Chloroaniline	668.1	5.1	64	1283	0	52.1	27-110	0			
4-Chlorophenyl phenyl ether	814.4	8.9	32	1283	0	63.5	58-106	0			
4-Nitroaniline	743.8	50	160	1283	0	58	21-100	0			
4-Nitrophenol	654	29	32	1283	0	51	29-120	0			
Acenaphthene	814.4	4.6	6.4	1283	0	63.5	55-101	0			
Acenaphthylene	869	5.6	6.4	1283	0	67.7	59-106	0			
Acetophenone	872.8	5	32	1283	0	68	51-100	0			
Anthracene	910.7	4.5	6.4	1283	0	71	67-105	0			
Atrazine	775.9	5.1	32	1283	0	60.5	45-125	0			
Benzaldehyde	526.2	49	64	1283	0	41	10-120	0			
Benzo(a)anthracene	926.7	5.5	6.4	1283	0	72.2	68-105	0			
Benzo(a)pyrene	971.6	3.9	6.4	1283	0	75.7	68-110	0			
Benzo(b)fluoranthene	976.1	4.8	6.4	1283	0	76.1	65-110	0			
Benzo(g,h,i)perylene	996.7	4.9	6.4	1283	0	77.7	60-120	0			
Benzo(k)fluoranthene	886.3	4.9	6.4	1283	0	69.1	66-113	0			
Bis(2-chloroethoxy)methane	851.6	3.1	32	1283	0	66.4	53-96	0			
Bis(2-chloroethyl)ether	914.5	9.1	32	1283	0	71.3	47-108	0			
Bis(2-ethylhexyl)phthalate	893.3	5.6	32	1283	0	69.6	59-117	0			
Butyl benzyl phthalate	851.6	5.4	32	1283	39.71	63.3	59-106	0			
Caprolactam	766.3	11	32	1283	0	59.7	42-105	0			
Carbazole	898.5	3.5	32	1283	0	70	67-108	0			
Chrysene	940.2	5.2	6.4	1283	0	73.3	68-108	0			
Dibenzo(a,h)anthracene	985.8	3.5	6.4	1283	0	76.8	62-119	0			

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

Batch ID: **118977**	Instrument ID **SVMS9**			Method: **SW846 8270D**					
Dibenzofuran	818.9	4.7	32	1283	0	63.8	60-104	0	
Diethyl phthalate	734.8	4.9	32	1283	0	57.3	62-111	0	S
Dimethyl phthalate	811.8	6.3	32	1283	0	63.3	62-106	0	
Di-n-butyl phthalate	827.2	5.9	32	1283	0	64.5	59-105	0	
Di-n-octyl phthalate	882.4	6.2	32	1283	0	68.8	51-123	0	
Fluoranthene	894	3.1	6.4	1283	0	69.7	67-106	0	
Fluorene	830.4	4.7	6.4	1283	0	64.7	59-107	0	
Hexachlorobenzene	897.2	9.3	32	1283	0	69.9	62-103	0	
Hexachlorobutadiene	828.5	17	32	1283	0	64.6	51-94	0	
Hexachlorocyclopentadiene	682.8	11	32	1283	0	53.2	25-120	0	
Hexachloroethane	827.2	13	32	1283	0	64.5	55-93	0	
Indeno(1,2,3-cd)pyrene	1004	4.5	6.4	1283	0	78.2	56-120	0	
Isophorone	885	6.3	160	1283	0	69	52-99	0	
Naphthalene	850.3	4.1	6.4	1283	0	66.3	46-98	0	
Nitrobenzene	884.4	11	160	1283	0	68.9	53-95	0	
N-Nitrosodi-n-propylamine	882.4	5.3	32	1283	0	68.8	50-104	0	
N-Nitrosodiphenylamine	914.5	3.1	32	1283	0	71.3	63-107	0	
Pentachlorophenol	746.4	12	32	1283	0	58.2	34-106	0	
Phenanthrene	913.2	3	6.4	1283	0	71.2	66-101	0	
Phenol	861.9	8	32	1283	0	67.2	44-109	0	
Pyrene	937.6	1.2	6.4	1283	0	73.1	60-119	0	
Surr: 2,4,6-Tribromophenol	*2337*	0	0	*3209*	0	*72.8*	*38-92*	0	
Surr: 2-Fluorobiphenyl	*2037*	0	0	*3209*	0	*63.5*	*44-107*	0	
Surr: 2-Fluorophenol	*2088*	0	0	*3209*	0	*65.1*	*37-109*	0	
Surr: 4-Terphenyl-d14	*2432*	0	0	*3209*	0	*75.8*	*52-123*	0	
Surr: Nitrobenzene-d5	*2095*	0	0	*3209*	0	*65.3*	*41-94*	0	
Surr: Phenol-d6	*2283*	0	0	*3209*	0	*71.1*	*28-111*	0	

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **118977** Instrument ID **SVMS9** Method: **SW846 8270D**

MSD Sample ID: **18051689-18A MSD** Units: **µg/Kg** Analysis Date: **05/30/18 07:48 PM**
Client ID: **SB-5 (4)** Run ID: **SVMS9_180530A** SeqNo: **5064521** Prep Date: **05/30/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	933.1	5.3	32	1298	0	71.9	53-97	865.1	7.56	30	
2,4,5-Trichlorophenol	848.6	8.9	32	1298	0	65.4	52-111	806.7	5.07	30	
2,4,6-Trichlorophenol	798.6	8.6	32	1298	0	61.5	46-105	777.2	2.72	30	
2,4-Dichlorophenol	864.9	6.8	32	1298	0	66.6	47-96	824.7	4.76	30	
2,4-Dimethylphenol	775.9	6.6	32	1298	0	59.8	49-97	776.5	0.079	30	
2,4-Dinitrophenol	175.3	18	32	1298	0	13.5	10-106	181	3.18	30	
2,4-Dinitrotoluene	896	8.5	32	1298	0	69	58-110	791.9	12.3	30	
2,6-Dinitrotoluene	896	5.4	32	1298	0	69	59-108	813.8	9.63	30	
2-Chloronaphthalene	855.1	4.5	6.5	1298	0	65.9	56-104	836.9	2.16	30	
2-Chlorophenol	851.9	10	32	1298	0	65.6	50-104	832.4	2.32	30	
2-Methylnaphthalene	923.3	3.3	6.5	1298	0	71.1	54-96	876	5.26	30	
2-Methylphenol	886.3	8.8	32	1298	0	68.3	49-105	853.5	3.77	30	
2-Nitroaniline	903.8	7.4	32	1298	0	69.6	54-107	831.7	8.31	30	
2-Nitrophenol	930.5	9.3	32	1298	0	71.7	51-94	870.9	6.62	30	
3&4-Methylphenol	886.3	6.5	32	1298	0	68.3	48-105	851	4.07	30	
3,3´-Dichlorobenzidine	818.1	4.8	160	1298	0	63	39-99	751.5	8.49	30	
3-Nitroaniline	825.9	7.4	32	1298	0	63.6	17-92	718.8	13.9	30	
4,6-Dinitro-2-methylphenol	705.8	8.2	32	1298	0	54.4	32-103	648.8	8.41	30	
4-Bromophenyl phenyl ether	935.7	8.7	32	1298	0	72.1	60-106	895.3	4.41	30	
4-Chloro-3-methylphenol	916.8	9.3	32	1298	0	70.6	51-101	849.1	7.68	30	
4-Chloroaniline	752.5	5.1	65	1298	0	58	27-110	668.1	11.9	30	
4-Chlorophenyl phenyl ether	883.7	9	32	1298	0	68.1	58-106	814.4	8.16	30	
4-Nitroaniline	855.8	50	160	1298	0	65.9	21-100	743.8	14	30	
4-Nitrophenol	811.6	29	32	1298	0	62.5	29-120	654	21.5	30	
Acenaphthene	847.3	4.7	6.5	1298	0	65.3	55-101	814.4	3.97	30	
Acenaphthylene	910.3	5.6	6.5	1298	0	70.1	59-106	869	4.65	30	
Acetophenone	888.3	5.1	32	1298	0	68.4	51-100	872.8	1.75	30	
Anthracene	977.9	4.6	6.5	1298	0	75.3	67-105	910.7	7.12	30	
Atrazine	942.8	5.1	32	1298	0	72.6	45-125	775.9	19.4	30	
Benzaldehyde	527.2	50	65	1298	0	40.6	10-120	526.2	0.188	30	
Benzo(a)anthracene	978.5	5.6	6.5	1298	0	75.4	68-105	926.7	5.44	30	
Benzo(a)pyrene	1034	4	6.5	1298	0	79.6	68-110	971.6	6.19	30	
Benzo(b)fluoranthene	1018	4.8	6.5	1298	0	78.4	65-110	976.1	4.21	30	
Benzo(g,h,i)perylene	1064	5	6.5	1298	0	82	60-120	996.7	6.56	30	
Benzo(k)fluoranthene	938.3	4.9	6.5	1298	0	72.3	66-113	886.3	5.7	30	
Bis(2-chloroethoxy)methane	912.9	3.1	32	1298	0	70.3	53-96	851.6	6.95	30	
Bis(2-chloroethyl)ether	979.8	9.2	32	1298	0	75.5	47-108	914.5	6.89	30	
Bis(2-ethylhexyl)phthalate	986.3	5.6	32	1298	0	76	59-117	893.3	9.89	30	
Butyl benzyl phthalate	891.5	5.5	32	1298	39.71	65.6	59-106	851.6	4.58	30	
Caprolactam	905.1	11	32	1298	0	69.7	42-105	766.3	16.6	30	
Carbazole	979.8	3.5	32	1298	0	75.5	67-108	898.5	8.66	30	
Chrysene	968.1	5.2	6.5	1298	0	74.6	68-108	940.2	2.93	30	
Dibenzo(a,h)anthracene	1043	3.5	6.5	1298	0	80.4	62-119	985.8	5.69	30	

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

Batch ID: **118977** Instrument ID **SVMS9** Method: **SW846 8270D**

Dibenzofuran	860.3	4.8	32	1298	0	66.3	60-104	818.9	4.94	30
Diethyl phthalate	816.8	5	32	1298	0	62.9	62-111	734.8	10.6	30
Dimethyl phthalate	894.1	6.3	32	1298	0	68.9	62-106	811.8	9.64	30
Di-n-butyl phthalate	945.4	5.9	32	1298	0	72.8	59-105	827.2	13.3	30
Di-n-octyl phthalate	966.8	6.2	32	1298	0	74.5	51-123	882.4	9.13	30
Fluoranthene	1011	3.1	6.5	1298	0	77.9	67-106	894	12.3	30
Fluorene	888.9	4.7	6.5	1298	0	68.5	59-107	830.4	6.8	30
Hexachlorobenzene	943.4	9.4	32	1298	0	72.7	62-103	897.2	5.03	30
Hexachlorobutadiene	865.5	18	32	1298	0	66.7	51-94	828.5	4.37	30
Hexachlorocyclopentadiene	692.8	11	32	1298	0	53.4	25-120	682.8	1.45	30
Hexachloroethane	830.5	13	32	1298	0	64	55-93	827.2	0.39	30
Indeno(1,2,3-cd)pyrene	1070	4.5	6.5	1298	0	82.4	56-120	1004	6.4	30
Isophorone	934.4	6.3	160	1298	0	72	52-99	885	5.43	30
Naphthalene	880.5	4.1	6.5	1298	0	67.8	46-98	850.3	3.48	30
Nitrobenzene	914.2	11	160	1298	0	70.4	53-95	884.4	3.32	30
N-Nitrosodi-n-propylamine	944.1	5.4	32	1298	0	72.7	50-104	882.4	6.75	30
N-Nitrosodiphenylamine	953.8	3.1	32	1298	0	73.5	63-107	914.5	4.21	30
Pentachlorophenol	766.8	12	32	1298	0	59.1	34-106	746.4	2.7	30
Phenanthrene	972	3	6.5	1298	0	74.9	66-101	913.2	6.24	30
Phenol	867.5	8.1	32	1298	0	66.8	44-109	861.9	0.646	30
Pyrene	900.6	1.2	6.5	1298	0	69.4	60-119	937.6	4.03	30
Surr: 2,4,6-Tribromophenol	*2493*	0	0	*3246*	0	*76.8*	*38-92*	2337	*6.46*	*40*
Surr: 2-Fluorobiphenyl	*2102*	0	0	*3246*	0	*64.8*	*44-107*	2037	*3.16*	*40*
Surr: 2-Fluorophenol	*2180*	0	0	*3246*	0	*67.1*	*37-109*	2088	*4.28*	*40*
Surr: 4-Terphenyl-d14	*2482*	0	0	*3246*	0	*76.4*	*52-123*	2432	*2.04*	*40*
Surr: Nitrobenzene-d5	*2193*	0	0	*3246*	0	*67.5*	*41-94*	2095	*4.54*	*40*
Surr: Phenol-d6	*2358*	0	0	*3246*	0	*72.6*	*28-111*	2283	*3.23*	*40*

The following samples were analyzed in this batch:

18051689-02A	18051689-06A	18051689-10A
18051689-14A	18051689-18A	18051689-22A
18051689-26A	18051689-30A	18051689-34A
18051689-38A		

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **118884** Instrument ID **VMS11** Method: **SW846 8260C**

MBLK Sample ID: **MBLK-118884-118884** Units: **µg/Kg-dry** Analysis Date: **05/31/18 02:22 AM**
Client ID: Run ID: **VMS11_180530B** SeqNo: **5063682** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	U	31	100	0	0	0	0-0	0			
Surr: 1,2-Dichloroethane-d4	*1136*	0	0	*1000*	0	*114*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1050*	0	0	*1000*	0	*105*	*70-130*	0			
Surr: Dibromofluoromethane	*969*	0	0	*1000*	0	*96.9*	*70-130*	0			
Surr: Toluene-d8	*1006*	0	0	*1000*	0	*101*	*70-130*	0			

MBLK Sample ID: **MBLK-118884-118884** Units: **µg/Kg-dry** Analysis Date: **05/31/18 01:48 PM**
Client ID: Run ID: **VMS8_180531A** SeqNo: **5066043** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	U	31	100	0	0	0	0-0	0			
Surr: 1,2-Dichloroethane-d4	*967*	0	0	*1000*	0	*96.7*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*977.5*	0	0	*1000*	0	*97.8*	*70-130*	0			
Surr: Dibromofluoromethane	*996*	0	0	*1000*	0	*99.6*	*70-130*	0			
Surr: Toluene-d8	*954.5*	0	0	*1000*	0	*95.4*	*70-130*	0			

LCS Sample ID: **LCS-118884-118884** Units: **µg/Kg-dry** Analysis Date: **05/31/18 01:15 AM**
Client ID: Run ID: **VMS11_180530B** SeqNo: **5063681** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	1194	31	100	1000	0	119	20-160	0			
Surr: 1,2-Dichloroethane-d4	*1133*	0	0	*1000*	0	*113*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1054*	0	0	*1000*	0	*105*	*70-130*	0			
Surr: Dibromofluoromethane	*998.5*	0	0	*1000*	0	*99.8*	*70-130*	0			
Surr: Toluene-d8	*997.5*	0	0	*1000*	0	*99.8*	*70-130*	0			

LCS Sample ID: **LCS-118884-118884** Units: **µg/Kg-dry** Analysis Date: **05/31/18 12:59 PM**
Client ID: Run ID: **VMS8_180531A** SeqNo: **5066041** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	845	31	100	1000	0	84.5	20-160	0			
Surr: 1,2-Dichloroethane-d4	*966*	0	0	*1000*	0	*96.6*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*955*	0	0	*1000*	0	*95.5*	*70-130*	0			
Surr: Dibromofluoromethane	*1016*	0	0	*1000*	0	*102*	*70-130*	0			
Surr: Toluene-d8	*948.5*	0	0	*1000*	0	*94.8*	*70-130*	0			

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **118884** Instrument ID **VMS11** Method: **SW846 8260C**

MS Sample ID: **18051642-03A MS** Units: **µg/Kg-dry** Analysis Date: **05/31/18 09:26 AM**
Client ID: Run ID: **VMS11_180530B** SeqNo: **5063685** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	3368	46	150	1469	0	229	20-160	0			S
Surr: 1,2-Dichloroethane-d4	*1660*	0	0	*1469*	0	*113*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1583*	0	0	*1469*	0	*108*	*70-130*	0			
Surr: Dibromofluoromethane	*1422*	0	0	*1469*	0	*96.8*	*70-130*	0			
Surr: Toluene-d8	*1491*	0	0	*1469*	0	*102*	*70-130*	0			

MS Sample ID: **18051642-03A MS** Units: **µg/Kg-dry** Analysis Date: **05/31/18 07:35 PM**
Client ID: Run ID: **VMS8_180531A** SeqNo: **5066054** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	2027	46	150	1469	0	138	20-160	0			
Surr: 1,2-Dichloroethane-d4	*1278*	0	0	*1469*	0	*87*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1382*	0	0	*1469*	0	*94.1*	*70-130*	0			
Surr: Dibromofluoromethane	*1260*	0	0	*1469*	0	*85.8*	*70-130*	0			
Surr: Toluene-d8	*1408*	0	0	*1469*	0	*95.8*	*70-130*	0			

MSD Sample ID: **18051642-03A MSD** Units: **µg/Kg-dry** Analysis Date: **05/31/18 09:48 AM**
Client ID: Run ID: **VMS11_180530B** SeqNo: **5063686** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	3574	46	150	1469	0	243	20-160	3368	5.95	30	S
Surr: 1,2-Dichloroethane-d4	*1714*	0	0	*1469*	0	*117*	*70-130*	1660	*3.18*	*30*	
Surr: 4-Bromofluorobenzene	*1576*	0	0	*1469*	0	*107*	*70-130*	1583	*0.465*	*30*	
Surr: Dibromofluoromethane	*1442*	0	0	*1469*	0	*98.2*	*70-130*	1422	*1.38*	*30*	
Surr: Toluene-d8	*1481*	0	0	*1469*	0	*101*	*70-130*	1491	*0.692*	*30*	

MSD Sample ID: **18051642-03A MSD** Units: **µg/Kg-dry** Analysis Date: **05/31/18 07:51 PM**
Client ID: Run ID: **VMS8_180531A** SeqNo: **5066055** Prep Date: **05/25/18** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	1999	46	150	1469	0	136	20-160	2027	1.35	30	
Surr: 1,2-Dichloroethane-d4	*1252*	0	0	*1469*	0	*85.2*	*70-130*	1278	*2.03*	*30*	
Surr: 4-Bromofluorobenzene	*1369*	0	0	*1469*	0	*93.2*	*70-130*	1382	*0.961*	*30*	
Surr: Dibromofluoromethane	*1233*	0	0	*1469*	0	*84*	*70-130*	1260	*2.12*	*30*	
Surr: Toluene-d8	*1374*	0	0	*1469*	0	*93.6*	*70-130*	1408	*2.43*	*30*	

The following samples were analyzed in this batch: 18051689-14C

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R236831** Instrument ID **VMS8** Method: **SW8260C**

MBLK Sample ID: **VBLKS1-180531-R236831** Units: **µg/Kg** Analysis Date: **05/30/18 11:17 AM**
Client ID: Run ID: **VMS8_180530A** SeqNo: **5062231** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	0.79	5.0								
1,1,2,2-Tetrachloroethane	U	0.27	5.0								
1,1,2-Trichloroethane	U	0.39	5.0								
1,1,2-Trichlorotrifluoroethane	U	1.1	5.0								
1,1-Dichloroethane	U	2.1	5.0								
1,1-Dichloroethene	U	0.98	5.0								
1,2,4-Trichlorobenzene	U	0.73	5.0								
1,2-Dibromo-3-chloropropane	U	1.4	5.0								
1,2-Dibromoethane	U	0.36	5.0								
1,2-Dichlorobenzene	U	0.63	5.0								
1,2-Dichloroethane	U	0.36	5.0								
1,2-Dichloropropane	U	0.44	5.0								
1,3-Dichlorobenzene	U	0.52	5.0								
1,4-Dichlorobenzene	U	0.36	5.0								
2-Butanone	U	1.9	10								
2-Hexanone	U	0.98	5.0								
4-Methyl-2-pentanone	U	0.81	5.0								
Acetone	U	2.1	10								
Benzene	U	0.52	5.0								
Bromodichloromethane	U	0.32	5.0								
Bromoform	U	0.31	5.0								
Bromomethane	U	0.72	10								
Carbon disulfide	U	0.56	5.0								
Carbon tetrachloride	U	0.83	5.0								
Chlorobenzene	U	0.32	5.0								
Chloroethane	U	0.63	5.0								
Chloroform	U	0.3	5.0								
Chloromethane	U	0.46	10								
cis-1,2-Dichloroethene	U	0.48	5.0								
cis-1,3-Dichloropropene	U	0.26	5.0								
Cyclohexane	U	3	10								
Dibromochloromethane	U	0.47	5.0								
Dichlorodifluoromethane	U	1.1	10								
Ethylbenzene	U	0.6	5.0								
Isopropylbenzene	U	0.64	5.0								
m,p-Xylene	U	1.2	2.5								
Methyl acetate	U	1.2	10								
Methyl tert-butyl ether	U	0.23	5.0								
Methylcyclohexane	U	1.5	10								
Methylene chloride	U	0.86	5.0								
o-Xylene	U	0.47	2.5								
Styrene	U	0.4	5.0								
Tetrachloroethene	U	0.89	5.0								

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

Batch ID: **R236831**	Instrument ID **VMS8**			Method: **SW8260C**				
Toluene	U	0.56	5.0					
trans-1,2-Dichloroethene	U	0.4	5.0					
trans-1,3-Dichloropropene	U	0.29	5.0					
Trichloroethene	U	0.72	5.0					
Trichlorofluoromethane	U	0.71	5.0					
Vinyl chloride	U	0.7	5.0					
Xylenes, Total	U	1.7	5.0					
Surr: 1,2-Dichloroethane-d4	*19.44*	0	0	*20*	0	*97.2*	*83-132*	0
Surr: 4-Bromofluorobenzene	*19.06*	0	0	*20*	0	*95.3*	*83-111*	0
Surr: Dibromofluoromethane	*19.74*	0	0	*20*	0	*98.7*	*77-125*	0
Surr: Toluene-d8	*19.65*	0	0	*20*	0	*98.2*	*86-108*	0

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R236831** Instrument ID **VMS8** Method: **SW8260C**

LCS Sample ID: **VLCSS1-180530-R236831** Units: **µg/Kg** Analysis Date: **05/30/18 10:24 AM**
Client ID: Run ID: **VMS8_180530A** SeqNo: **5062230** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.26	0.79	5.0	20	0	96.3	73-138	0			
1,1,2,2-Tetrachloroethane	17.88	0.27	5.0	20	0	89.4	71-126	0			
1,1,2-Trichloroethane	17.53	0.39	5.0	20	0	87.6	77-123	0			
1,1-Dichloroethane	19.87	2.1	5.0	20	0	99.4	63-148	0			
1,1-Dichloroethene	19.57	0.98	5.0	20	0	97.8	67-156	0			
1,2,4-Trichlorobenzene	19.29	0.73	5.0	20	0	96.4	70-132	0			
1,2-Dibromo-3-chloropropane	16.78	1.4	5.0	20	0	83.9	48-127	0			
1,2-Dibromoethane	18.48	0.36	5.0	20	0	92.4	71-144	0			
1,2-Dichlorobenzene	19.91	0.63	5.0	20	0	99.6	77-127	0			
1,2-Dichloroethane	18.03	0.36	5.0	20	0	90.2	77-127	0			
1,2-Dichloropropane	18.85	0.44	5.0	20	0	94.2	74-130	0			
1,3-Dichlorobenzene	20.13	0.52	5.0	20	0	101	75-133	0			
1,4-Dichlorobenzene	19.81	0.36	5.0	20	0	99	74-130	0			
2-Butanone	15.3	1.9	10	20	0	76.5	55-132	0			
2-Hexanone	14.22	0.98	5.0	20	0	71.1	55-124	0			
4-Methyl-2-pentanone	18.76	0.81	5.0	20	0	93.8	67-159	0			
Acetone	14.69	2.1	10	20	0	73.4	31-156	0			
Benzene	19.29	0.52	5.0	20	0	96.4	77-133	0			
Bromodichloromethane	19.28	0.32	5.0	20	0	96.4	69-133	0			
Bromoform	16.93	0.31	5.0	20	0	84.6	55-126	0			
Bromomethane	20.14	0.72	10	20	0	101	31-174	0			
Carbon disulfide	20.37	0.56	5.0	20	0	102	45-160	0			
Carbon tetrachloride	20.51	0.83	5.0	20	0	103	69-140	0			
Chlorobenzene	19.49	0.32	5.0	20	0	97.4	76-130	0			
Chloroethane	18.85	0.63	5.0	20	0	94.2	53-150	0			
Chloroform	18.22	0.3	5.0	20	0	91.1	72-132	0			
Chloromethane	14.49	0.46	10	20	0	72.4	43-150	0			
cis-1,2-Dichloroethene	18.7	0.48	5.0	20	0	93.5	74-134	0			
cis-1,3-Dichloropropene	18.85	0.26	5.0	20	0	94.2	62-134	0			
Dibromochloromethane	17.38	0.47	5.0	20	0	86.9	57-118	0			
Dichlorodifluoromethane	16.19	1.1	10	20	0	81	43-126	0			
Ethylbenzene	19.33	0.6	5.0	20	0	96.6	75-133	0			
Isopropylbenzene	19.57	0.64	5.0	20	0	97.8	74-137	0			
m,p-Xylene	38.35	1.2	2.5	40	0	95.9	75-134	0			
Methyl tert-butyl ether	19.77	0.23	5.0	20	0	98.8	62-136	0			
Methylene chloride	19.73	0.86	5.0	20	0	98.6	55-157	0			
o-Xylene	18.78	0.47	2.5	20	0	93.9	76-130	0			
Styrene	18.75	0.4	5.0	20	0	93.8	72-138	0			
Tetrachloroethene	21.48	0.89	5.0	20	0	107	70-171	0			
Toluene	18.87	0.56	5.0	20	0	94.4	76-130	0			
trans-1,2-Dichloroethene	18.33	0.4	5.0	20	0	91.6	65-137	0			
trans-1,3-Dichloropropene	16.61	0.29	5.0	20	0	83	58-126	0			
Trichloroethene	20.7	0.72	5.0	20	0	104	75-135	0			

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

Batch ID: **R236831** Instrument ID **VMS8** Method: **SW8260C**

Trichlorofluoromethane	17.12	0.71	5.0	20	0	85.6	62-136	0
Vinyl chloride	19.72	0.7	5.0	20	0	98.6	57-143	0
Xylenes, Total	57.13	1.7	5.0	60	0	95.2	75-132	0
Surr: 1,2-Dichloroethane-d4	*18.65*	0	0	*20*	0	*93.2*	*83-132*	0
Surr: 4-Bromofluorobenzene	*18.46*	0	0	*20*	0	*92.3*	*83-111*	0
Surr: Dibromofluoromethane	*19.27*	0	0	*20*	0	*96.4*	*77-125*	0
Surr: Toluene-d8	*18.94*	0	0	*20*	0	*94.7*	*86-108*	0

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R236831** Instrument ID **VMS8** Method: **SW8260C**

MS Sample ID: **18051689-10C MS** Units: **µg/Kg** Analysis Date: **05/30/18 08:03 PM**
Client ID: **SB-3 (4)** Run ID: **VMS8_180530A** SeqNo: **5062720** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	29.45	0.79	5.0	25	0	118	73-138	0			
1,1,2,2-Tetrachloroethane	24.58	0.27	5.0	25	0	98.3	71-126	0			
1,1,2-Trichloroethane	24.58	0.39	5.0	25	0	98.3	77-123	0			
1,1-Dichloroethane	28.8	2.1	5.0	25	0	115	63-148	0			
1,1-Dichloroethene	30.52	0.98	5.0	25	0	122	67-156	0			
1,2,4-Trichlorobenzene	18.89	0.73	5.0	25	0	75.6	70-132	0			
1,2-Dibromo-3-chloropropane	22.12	1.4	5.0	25	0	88.5	48-127	0			
1,2-Dibromoethane	26.54	0.36	5.0	25	0	106	71-144	0			
1,2-Dichlorobenzene	22.81	0.63	5.0	25	0	91.2	77-127	0			
1,2-Dichloroethane	24.49	0.36	5.0	25	0	98	77-127	0			
1,2-Dichloropropane	26.64	0.44	5.0	25	0	107	74-130	0			
1,3-Dichlorobenzene	22.62	0.52	5.0	25	0	90.5	75-133	0			
1,4-Dichlorobenzene	22.24	0.36	5.0	25	0	89	74-130	0			
2-Butanone	37.64	1.9	10	25	0	151	55-132	0			S
2-Hexanone	26.26	0.98	5.0	25	0	105	55-124	0			
4-Methyl-2-pentanone	31.11	0.81	5.0	25	0	124	67-159	0			
Acetone	57.27	2.1	10	25	3.867	214	31-156	0			S
Benzene	27.51	0.52	5.0	25	0	110	77-133	0			
Bromodichloromethane	26.22	0.32	5.0	25	0	105	69-133	0			
Bromoform	24.76	0.31	5.0	25	0	99	55-126	0			
Bromomethane	26.2	0.72	10	25	0	105	31-174	0			
Carbon disulfide	29.98	0.56	5.0	25	0	120	45-160	0			
Carbon tetrachloride	32.8	0.83	5.0	25	0	131	69-140	0			
Chlorobenzene	26.2	0.32	5.0	25	0	105	76-130	0			
Chloroethane	23.54	0.63	5.0	25	0	94.2	53-150	0			
Chloroform	25.51	0.3	5.0	25	0	102	72-132	0			
Chloromethane	20.91	0.46	10	25	0	83.6	43-150	0			
cis-1,2-Dichloroethene	27.56	0.48	5.0	25	0	110	74-134	0			
cis-1,3-Dichloropropene	24.29	0.26	5.0	25	0	97.2	62-134	0			
Dibromochloromethane	24.27	0.47	5.0	25	0	97.1	57-118	0			
Dichlorodifluoromethane	31.88	1.1	10	25	0	128	43-126	0			S
Ethylbenzene	27.44	0.6	5.0	25	0	110	75-133	0			
Isopropylbenzene	29.04	0.64	5.0	25	0	116	74-137	0			
m,p-Xylene	53.22	1.2	2.5	50	0	106	75-134	0			
Methyl tert-butyl ether	30.37	0.23	5.0	25	0	121	62-136	0			
Methylene chloride	29.09	0.86	5.0	25	0	116	55-157	0			
o-Xylene	26.03	0.47	2.5	25	0	104	76-130	0			
Styrene	24.26	0.4	5.0	25	0	97	72-138	0			
Tetrachloroethene	41.03	0.89	5.0	25	0	164	70-171	0			
Toluene	26.75	0.56	5.0	25	0	107	76-130	0			
trans-1,2-Dichloroethene	27.73	0.4	5.0	25	0	111	65-137	0			
trans-1,3-Dichloropropene	22.9	0.29	5.0	25	0	91.6	58-126	0			
Trichloroethene	29.46	0.72	5.0	25	0	118	75-135	0			

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

Batch ID: **R236831** Instrument ID **VMS8** Method: **SW8260C**

Trichlorofluoromethane	28.55	0.71	5.0	25	0	114	62-136	0
Vinyl chloride	32.6	0.7	5.0	25	0	130	57-143	0
Xylenes, Total	79.25	1.7	5.0	75	0	106	75-132	0
Surr: 1,2-Dichloroethane-d4	*20.57*	0	0	*20*	0	*103*	*83-132*	0
Surr: 4-Bromofluorobenzene	*19.16*	0	0	*20*	0	*95.8*	*83-111*	0
Surr: Dibromofluoromethane	*20.28*	0	0	*20*	0	*101*	*77-125*	0
Surr: Toluene-d8	*19.21*	0	0	*20*	0	*96*	*86-108*	0

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R236831** Instrument ID **VMS8** Method: **SW8260C**

MSD Sample ID: **18051689-10C MSD** Units: **µg/Kg** Analysis Date: **05/30/18 08:20 PM**
Client ID: **SB-3 (4)** Run ID: **VMS8_180530A** SeqNo: **5062721** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	30.85	0.79	5.0	25	0	123	73-138	29.45	4.64	30	
1,1,2,2-Tetrachloroethane	29.2	0.27	5.0	25	0	117	71-126	24.58	17.2	30	
1,1,2-Trichloroethane	27.37	0.39	5.0	25	0	109	77-123	24.58	10.7	30	
1,1-Dichloroethane	30.06	2.1	5.0	25	0	120	63-148	28.8	4.28	30	
1,1-Dichloroethene	31.6	0.98	5.0	25	0	126	67-156	30.52	3.48	30	
1,2,4-Trichlorobenzene	19.98	0.73	5.0	25	0	79.9	70-132	18.89	5.61	30	
1,2-Dibromo-3-chloropropane	26.32	1.4	5.0	25	0	105	48-127	22.12	17.3	30	
1,2-Dibromoethane	28.46	0.36	5.0	25	0	114	71-144	26.54	6.98	30	
1,2-Dichlorobenzene	24.84	0.63	5.0	25	0	99.4	77-127	22.81	8.52	30	
1,2-Dichloroethane	26.68	0.36	5.0	25	0	107	77-127	24.49	8.56	30	
1,2-Dichloropropane	28.48	0.44	5.0	25	0	114	74-130	26.64	6.68	30	
1,3-Dichlorobenzene	24.58	0.52	5.0	25	0	98.3	75-133	22.62	8.31	30	
1,4-Dichlorobenzene	23.8	0.36	5.0	25	0	95.2	74-130	22.24	6.78	30	
2-Butanone	44.82	1.9	10	25	0	179	55-132	37.64	17.4	30	S
2-Hexanone	33	0.98	5.0	25	0	132	55-124	26.26	22.7	30	S
4-Methyl-2-pentanone	35.46	0.81	5.0	25	0	142	67-159	31.11	13.1	30	
Acetone	61.23	2.1	10	25	3.867	229	31-156	57.27	6.68	30	S
Benzene	28.28	0.52	5.0	25	0	113	77-133	27.51	2.76	30	
Bromodichloromethane	28.89	0.32	5.0	25	0	116	69-133	26.22	9.69	30	
Bromoform	28.45	0.31	5.0	25	0	114	55-126	24.76	13.9	30	
Bromomethane	27.05	0.72	10	25	0	108	31-174	26.2	3.19	30	
Carbon disulfide	29.87	0.56	5.0	25	0	119	45-160	29.98	0.368	30	
Carbon tetrachloride	32.93	0.83	5.0	25	0	132	69-140	32.8	0.396	30	
Chlorobenzene	27.23	0.32	5.0	25	0	109	76-130	26.2	3.86	30	
Chloroethane	24.9	0.63	5.0	25	0	99.6	53-150	23.54	5.62	30	
Chloroform	27.6	0.3	5.0	25	0	110	72-132	25.51	7.87	30	
Chloromethane	21.88	0.46	10	25	0	87.5	43-150	20.91	4.53	30	
cis-1,2-Dichloroethene	29.04	0.48	5.0	25	0	116	74-134	27.56	5.23	30	
cis-1,3-Dichloropropene	26.32	0.26	5.0	25	0	105	62-134	24.29	8.02	30	
Dibromochloromethane	27.71	0.47	5.0	25	0	111	57-118	24.27	13.2	30	
Dichlorodifluoromethane	30.48	1.1	10	25	0	122	43-126	31.88	4.49	30	
Ethylbenzene	28	0.6	5.0	25	0	112	75-133	27.44	2.02	30	
Isopropylbenzene	27.01	0.64	5.0	25	0	108	74-137	29.04	7.24	30	
m,p-Xylene	54.17	1.2	2.5	50	0	108	75-134	53.22	1.77	30	
Methyl tert-butyl ether	32.9	0.23	5.0	25	0	132	62-136	30.37	8	30	
Methylene chloride	31.11	0.86	5.0	25	0	124	55-157	29.09	6.71	30	
o-Xylene	26.69	0.47	2.5	25	0	107	76-130	26.03	2.5	30	
Styrene	25.55	0.4	5.0	25	0	102	72-138	24.26	5.18	30	
Tetrachloroethene	39.09	0.89	5.0	25	0	156	70-171	41.03	4.84	30	
Toluene	27.73	0.56	5.0	25	0	111	76-130	26.75	3.6	30	
trans-1,2-Dichloroethene	27.91	0.4	5.0	25	0	112	65-137	27.73	0.647	30	
trans-1,3-Dichloropropene	25.25	0.29	5.0	25	0	101	58-126	22.9	9.76	30	
Trichloroethene	29.86	0.72	5.0	25	0	119	75-135	29.46	1.35	30	

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

QC BATCH REPORT

Batch ID: **R236831** Instrument ID **VMS8** Method: **SW8260C**

Trichlorofluoromethane	28.01	0.71	5.0	25	0	112	62-136	28.55	1.91	30
Vinyl chloride	31.99	0.7	5.0	25	0	128	57-143	32.6	1.89	30
Xylenes, Total	80.86	1.7	5.0	75	0	108	75-132	79.25	2.01	30
Surr: 1,2-Dichloroethane-d4	*19.96*	0	0	*20*	0	*99.8*	*83-132*	20.57	*3.01*	*30*
Surr: 4-Bromofluorobenzene	*19.05*	0	0	*20*	0	*95.2*	*83-111*	19.16	*0.576*	*30*
Surr: Dibromofluoromethane	*19.9*	0	0	*20*	0	*99.5*	*77-125*	20.28	*1.89*	*30*
Surr: Toluene-d8	*19.15*	0	0	*20*	0	*95.8*	*86-108*	19.21	*0.313*	*30*

The following samples were analyzed in this batch:

18051689-02C	18051689-06C	18051689-10C
18051689-14C	18051689-18C	18051689-22C
18051689-26C	18051689-30C	18051689-34C
18051689-38C		

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R236970A** Instrument ID **VMS8** Method: **SW8260C**

MBLK Sample ID: **VBLKW2-180530-R236970A** Units: **µg/L** Analysis Date: **05/30/18 10:50 PM**
Client ID: Run ID: **VMS8_180530B** SeqNo: **5063102** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	0.33	1.0								
1,1,2,2-Tetrachloroethane	U	0.17	1.0								
1,1,2-Trichloroethane	U	0.22	1.0								
1,1,2-Trichlorotrifluoroethane	U	0.18	1.0								
1,1-Dichloroethane	U	0.48	1.0								
1,1-Dichloroethene	U	0.36	1.0								
1,2,4-Trichlorobenzene	U	0.25	1.0								
1,2-Dibromo-3-chloropropane	U	0.43	1.0								
1,2-Dibromoethane	U	0.17	1.0								
1,2-Dichlorobenzene	U	0.12	1.0								
1,2-Dichloroethane	U	0.11	1.0								
1,2-Dichloropropane	U	0.34	1.0								
1,3-Dichlorobenzene	U	0.13	1.0								
1,4-Dichlorobenzene	U	0.13	1.0								
2-Butanone	U	0.47	5.0								
2-Hexanone	U	0.5	5.0								
4-Methyl-2-pentanone	U	0.52	1.0								
Acetone	U	0.47	10								
Benzene	U	0.42	1.0								
Bromodichloromethane	U	0.22	1.0								
Bromoform	U	0.56	1.0								
Bromomethane	U	0.29	1.0								
Carbon disulfide	U	0.39	1.0								
Carbon tetrachloride	U	0.32	1.0								
Chlorobenzene	U	0.21	1.0								
Chloroethane	U	0.68	1.0								
Chloroform	U	0.46	1.0								
Chloromethane	U	0.68	1.0								
cis-1,2-Dichloroethene	U	0.38	1.0								
cis-1,3-Dichloropropene	U	0.13	1.0								
Cyclohexane	U	0.18	1.0								
Dibromochloromethane	U	0.2	1.0								
Dichlorodifluoromethane	U	0.3	1.0								
Ethylbenzene	U	0.29	1.0								
Isopropylbenzene	U	0.17	1.0								
m,p-Xylene	U	0.53	2.0								
Methyl acetate	U	0.26	2.0								
Methyl tert-butyl ether	U	0.21	1.0								
Methylcyclohexane	U	0.09	1.0								
Methylene chloride	U	0.16	5.0								
o-Xylene	U	0.19	1.0								
Styrene	U	0.19	1.0								
Tetrachloroethene	U	0.28	1.0								

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

Batch ID: **R236970A** Instrument ID **VMS8** Method: **SW8260C**

Toluene	U	0.32	1.0					
trans-1,2-Dichloroethene	U	0.48	1.0					
trans-1,3-Dichloropropene	U	0.15	1.0					
Trichloroethene	U	0.33	1.0					
Trichlorofluoromethane	U	0.24	1.0					
Vinyl chloride	U	0.53	1.0					
Xylenes, Total	U	0.74	3.0					
Surr: 1,2-Dichloroethane-d4	*18.97*	0	0	*20*	0	*94.8*	*75-120*	0
Surr: 4-Bromofluorobenzene	*19.15*	0	0	*20*	0	*95.8*	*80-110*	0
Surr: Dibromofluoromethane	*19.35*	0	0	*20*	0	*96.8*	*85-115*	0
Surr: Toluene-d8	*18.83*	0	0	*20*	0	*94.2*	*85-110*	0

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R236970A** Instrument ID **VMS8** Method: **SW8260C**

LCS Sample ID: **VLCSW1-180530-R236970A** Units: **µg/L** Analysis Date: **05/30/18 10:18 PM**
Client ID: Run ID: **VMS8_180530B** SeqNo: **5063101** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.5	0.33	1.0	20	0	102	75-130	0			
1,1,2,2-Tetrachloroethane	22.99	0.17	1.0	20	0	115	75-130	0			
1,1,2-Trichloroethane	19.74	0.22	1.0	20	0	98.7	75-125	0			
1,1-Dichloroethane	19.29	0.48	1.0	20	0	96.4	68-142	0			
1,1-Dichloroethene	19.42	0.36	1.0	20	0	97.1	70-145	0			
1,2,4-Trichlorobenzene	21.72	0.25	1.0	20	0	109	70-135	0			
1,2-Dibromo-3-chloropropane	19.79	0.43	1.0	20	0	99	60-130	0			
1,2-Dibromoethane	21.74	0.17	1.0	20	0	109	67-155	0			
1,2-Dichlorobenzene	22.61	0.12	1.0	20	0	113	70-130	0			
1,2-Dichloroethane	19.35	0.11	1.0	20	0	96.8	78-125	0			
1,2-Dichloropropane	20.06	0.34	1.0	20	0	100	75-125	0			
1,3-Dichlorobenzene	21.66	0.13	1.0	20	0	108	75-130	0			
1,4-Dichlorobenzene	21.53	0.13	1.0	20	0	108	75-130	0			
2-Butanone	17.61	0.47	5.0	20	0	88	55-150	0			
2-Hexanone	18.58	0.5	5.0	20	0	92.9	60-135	0			
4-Methyl-2-pentanone	28.78	0.52	1.0	20	0	144	77-178	0			
Acetone	18.36	0.47	10	20	0	91.8	60-160	0			
Benzene	21	0.42	1.0	20	0	105	85-125	0			
Bromodichloromethane	20.47	0.22	1.0	20	0	102	75-125	0			
Bromoform	21.35	0.56	1.0	20	0	107	60-125	0			
Bromomethane	30.61	0.29	1.0	20	0	153	30-185	0			
Carbon disulfide	18.49	0.39	1.0	20	0	92.4	60-165	0			
Carbon tetrachloride	20.28	0.32	1.0	20	0	101	65-140	0			
Chlorobenzene	21.44	0.21	1.0	20	0	107	80-120	0			
Chloroethane	19.69	0.68	1.0	20	0	98.4	50-140	0			
Chloroform	19.8	0.46	1.0	20	0	99	80-130	0			
Chloromethane	15.95	0.68	1.0	20	0	79.8	46-148	0			
cis-1,2-Dichloroethene	19.52	0.38	1.0	20	0	97.6	75-134	0			
cis-1,3-Dichloropropene	20.26	0.13	1.0	20	0	101	70-130	0			
Dibromochloromethane	20.05	0.2	1.0	20	0	100	60-115	0			
Dichlorodifluoromethane	15.54	0.3	1.0	20	0	77.7	20-120	0			
Ethylbenzene	21.43	0.29	1.0	20	0	107	76-123	0			
Isopropylbenzene	20.87	0.17	1.0	20	0	104	80-127	0			
m,p-Xylene	42.21	0.53	2.0	40	0	106	75-130	0			
Methyl tert-butyl ether	21.15	0.21	1.0	20	0	106	68-129	0			
Methylene chloride	18.3	0.16	5.0	20	0	91.5	75-140	0			
o-Xylene	20.89	0.19	1.0	20	0	104	76-127	0			
Styrene	22.22	0.19	1.0	20	0	111	83-137	0			
Tetrachloroethene	23.25	0.28	1.0	20	0	116	68-166	0			
Toluene	21.19	0.32	1.0	20	0	106	76-125	0			
trans-1,2-Dichloroethene	19.49	0.48	1.0	20	0	97.4	80-140	0			
trans-1,3-Dichloropropene	19.57	0.15	1.0	20	0	97.8	56-132	0			
Trichloroethene	20.8	0.33	1.0	20	0	104	84-130	0			

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

QC BATCH REPORT

Batch ID: **R236970A** Instrument ID **VMS8** Method: **SW8260C**

Trichlorofluoromethane	15.81	0.24	1.0	20	0	79	60-140	0
Vinyl chloride	19.27	0.53	1.0	20	0	96.4	50-136	0
Xylenes, Total	63.1	0.74	3.0	60	0	105	76-127	0
Surr: 1,2-Dichloroethane-d4	*19.36*	0	0	*20*	0	*96.8*	*75-120*	0
Surr: 4-Bromofluorobenzene	*19.83*	0	0	*20*	0	*99.2*	*80-110*	0
Surr: Dibromofluoromethane	*19.8*	0	0	*20*	0	*99*	*85-115*	0
Surr: Toluene-d8	*19.48*	0	0	*20*	0	*97.4*	*85-110*	0

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R236970A** Instrument ID **VMS8** Method: **SW8260C**

MS Sample ID: **18051713-11E MS** Units: **µg/L** Analysis Date: **05/31/18 05:01 AM**
Client ID: Run ID: **VMS8_180530B** SeqNo: **5063120** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	23.53	0.33	1.0	20	2.3	106	75-130	0			
1,1,2,2-Tetrachloroethane	21.28	0.17	1.0	20	0	106	75-130	0			
1,1,2-Trichloroethane	18.97	0.22	1.0	20	0	94.8	75-125	0			
1,1-Dichloroethane	85.88	0.48	1.0	20	63.86	110	68-142	0			
1,1-Dichloroethene	147.7	0.36	1.0	20	123.4	121	70-145	0			EO
1,2,4-Trichlorobenzene	19.01	0.25	1.0	20	0	95	70-135	0			
1,2-Dibromo-3-chloropropane	17.77	0.43	1.0	20	0	88.8	60-130	0			
1,2-Dibromoethane	20.59	0.17	1.0	20	0	103	67-155	0			
1,2-Dichlorobenzene	20.46	0.12	1.0	20	0	102	70-130	0			
1,2-Dichloroethane	19.08	0.11	1.0	20	0	95.4	78-125	0			
1,2-Dichloropropane	19.76	0.34	1.0	20	0	98.8	75-125	0			
1,3-Dichlorobenzene	20.14	0.13	1.0	20	0	101	75-130	0			
1,4-Dichlorobenzene	19.69	0.13	1.0	20	0	98.4	75-130	0			
2-Butanone	16.44	0.47	5.0	20	0	82.2	55-150	0			
2-Hexanone	17.15	0.5	5.0	20	0	85.8	60-135	0			
4-Methyl-2-pentanone	27.2	0.52	1.0	20	0	136	77-178	0			
Acetone	18.89	0.47	10	20	0	94.4	60-160	0			
Benzene	21.29	0.42	1.0	20	0	106	85-125	0			
Bromodichloromethane	19.94	0.22	1.0	20	0	99.7	75-125	0			
Bromoform	19.78	0.56	1.0	20	0	98.9	60-125	0			
Bromomethane	50.46	0.29	1.0	20	0	252	30-185	0			S
Carbon disulfide	20.78	0.39	1.0	20	0	104	60-165	0			
Carbon tetrachloride	21.81	0.32	1.0	20	0	109	65-140	0			
Chlorobenzene	20.47	0.21	1.0	20	0	102	80-120	0			
Chloroethane	28.31	0.68	1.0	20	0	142	50-140	0			S
Chloroform	20	0.46	1.0	20	0.57	97.2	80-130	0			
Chloromethane	16.43	0.68	1.0	20	0	82.2	46-148	0			
cis-1,2-Dichloroethene	21.73	0.38	1.0	20	0	109	75-134	0			
cis-1,3-Dichloropropene	19.55	0.13	1.0	20	0	97.8	70-130	0			
Dibromochloromethane	18.85	0.2	1.0	20	0	94.2	60-115	0			
Dichlorodifluoromethane	20.36	0.3	1.0	20	0	102	20-120	0			
Ethylbenzene	21.09	0.29	1.0	20	0	105	76-123	0			
Isopropylbenzene	20.03	0.17	1.0	20	0	100	80-127	0			
m,p-Xylene	41.75	0.53	2.0	40	0	104	75-130	0			
Methyl tert-butyl ether	20.64	0.21	1.0	20	0	103	68-129	0			
Methylene chloride	18.96	0.16	5.0	20	0	94.8	75-140	0			
o-Xylene	20.22	0.19	1.0	20	0	101	76-127	0			
Styrene	20.93	0.19	1.0	20	0	105	83-137	0			
Tetrachloroethene	23.11	0.28	1.0	20	0	116	68-166	0			
Toluene	20.52	0.32	1.0	20	0	103	76-125	0			
trans-1,2-Dichloroethene	21.07	0.48	1.0	20	0	105	80-140	0			
trans-1,3-Dichloropropene	17.83	0.15	1.0	20	0	89.2	56-132	0			
Trichloroethene	21.02	0.33	1.0	20	0	105	84-130	0			

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

QC BATCH REPORT

Batch ID: **R236970A** Instrument ID **VMS8** Method: **SW8260C**

Trichlorofluoromethane	20.75	0.24	1.0	20	0	104	60-140	0
Vinyl chloride	21.48	0.53	1.0	20	0	107	50-136	0
Xylenes, Total	61.97	0.74	3.0	60	0	103	76-127	0
Surr: 1,2-Dichloroethane-d4	*19.74*	0	0	*20*	0	*98.7*	*75-120*	0
Surr: 4-Bromofluorobenzene	*18.21*	0	0	*20*	0	*91*	*80-110*	0
Surr: Dibromofluoromethane	*19.71*	0	0	*20*	0	*98.6*	*85-115*	0
Surr: Toluene-d8	*18.85*	0	0	*20*	0	*94.2*	*85-110*	0

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R236970A** Instrument ID **VMS8** Method: **SW8260C**

MSD Sample ID: **18051713-11E MSD** Units: **µg/L** Analysis Date: **05/31/18 05:17 AM**

Client ID: Run ID: **VMS8_180530B** SeqNo: **5063121** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	37.84	0.33	1.0	20	2.3	178	75-130	23.53	46.6	30	SR
1,1,2,2-Tetrachloroethane	21.24	0.17	1.0	20	0	106	75-130	21.28	0.188	30	
1,1,2-Trichloroethane	18.59	0.22	1.0	20	0	93	75-125	18.97	2.02	30	
1,1-Dichloroethane	49.1	0.48	1.0	20	63.86	-73.8	68-142	85.88	54.5	30	SR
1,1-Dichloroethene	68.08	0.36	1.0	20	123.4	-277	70-145	147.7	73.8	30	SRO
1,2,4-Trichlorobenzene	20.1	0.25	1.0	20	0	100	70-135	19.01	5.57	30	
1,2-Dibromo-3-chloropropane	17.05	0.43	1.0	20	0	85.2	60-130	17.77	4.14	30	
1,2-Dibromoethane	20.69	0.17	1.0	20	0	103	67-155	20.59	0.484	30	
1,2-Dichlorobenzene	20.9	0.12	1.0	20	0	104	70-130	20.46	2.13	30	
1,2-Dichloroethane	18.65	0.11	1.0	20	0	93.2	78-125	19.08	2.28	30	
1,2-Dichloropropane	19.38	0.34	1.0	20	0	96.9	75-125	19.76	1.94	30	
1,3-Dichlorobenzene	20.19	0.13	1.0	20	0	101	75-130	20.14	0.248	30	
1,4-Dichlorobenzene	20.56	0.13	1.0	20	0	103	75-130	19.69	4.32	30	
2-Butanone	16.63	0.47	5.0	20	0	83.2	55-150	16.44	1.15	30	
2-Hexanone	17.31	0.5	5.0	20	0	86.6	60-135	17.15	0.929	30	
4-Methyl-2-pentanone	26.56	0.52	1.0	20	0	133	77-178	27.2	2.38	30	
Acetone	19.15	0.47	10	20	0	95.8	60-160	18.89	1.37	30	
Benzene	21.08	0.42	1.0	20	0	105	85-125	21.29	0.991	30	
Bromodichloromethane	19.89	0.22	1.0	20	0	99.4	75-125	19.94	0.251	30	
Bromoform	19.69	0.56	1.0	20	0	98.4	60-125	19.78	0.456	30	
Bromomethane	49.93	0.29	1.0	20	0	250	30-185	50.46	1.06	30	S
Carbon disulfide	20.62	0.39	1.0	20	0	103	60-165	20.78	0.773	30	
Carbon tetrachloride	223.2	0.32	1.0	20	0	1120	65-140	21.81	164	30	SRE
Chlorobenzene	20.21	0.21	1.0	20	0	101	80-120	20.47	1.28	30	
Chloroethane	27.13	0.68	1.0	20	0	136	50-140	28.31	4.26	30	
Chloroform	239.1	0.46	1.0	20	0.57	1190	80-130	20	169	30	SRE
Chloromethane	16.17	0.68	1.0	20	0	80.8	46-148	16.43	1.6	30	
cis-1,2-Dichloroethene	19.69	0.38	1.0	20	0	98.4	75-134	21.73	9.85	30	
cis-1,3-Dichloropropene	18.77	0.13	1.0	20	0	93.8	70-130	19.55	4.07	30	
Dibromochloromethane	18.95	0.2	1.0	20	0	94.8	60-115	18.85	0.529	30	
Dichlorodifluoromethane	20.06	0.3	1.0	20	0	100	20-120	20.36	1.48	30	
Ethylbenzene	20.54	0.29	1.0	20	0	103	76-123	21.09	2.64	30	
Isopropylbenzene	20.77	0.17	1.0	20	0	104	80-127	20.03	3.63	30	
m,p-Xylene	41.89	0.53	2.0	40	0	105	75-130	41.75	0.335	30	
Methyl tert-butyl ether	20.01	0.21	1.0	20	0	100	68-129	20.64	3.1	30	
Methylene chloride	18.62	0.16	5.0	20	0	93.1	75-140	18.96	1.81	30	
o-Xylene	20	0.19	1.0	20	0	100	76-127	20.22	1.09	30	
Styrene	19.69	0.19	1.0	20	0	98.4	83-137	20.93	6.11	30	
Tetrachloroethene	23.53	0.28	1.0	20	0	118	68-166	23.11	1.8	30	
Toluene	20.79	0.32	1.0	20	0	104	76-125	20.52	1.31	30	
trans-1,2-Dichloroethene	20.04	0.48	1.0	20	0	100	80-140	21.07	5.01	30	
trans-1,3-Dichloropropene	17.03	0.15	1.0	20	0	85.2	56-132	17.83	4.59	30	
Trichloroethene	20.62	0.33	1.0	20	0	103	84-130	21.02	1.92	30	

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R236970A**	Instrument ID **VMS8**				Method: **SW8260C**					
Trichlorofluoromethane	20.31	0.24	1.0	20	0	102	60-140	20.75	2.14	30
Vinyl chloride	20.53	0.53	1.0	20	0	103	50-136	21.48	4.52	30
Xylenes, Total	61.89	0.74	3.0	60	0	103	76-127	61.97	0.129	30
Surr: 1,2-Dichloroethane-d4	*19.35*	0	0	*20*	0	*96.8*	*75-120*	19.74	*2*	*30*
Surr: 4-Bromofluorobenzene	*19.51*	0	0	*20*	0	*97.6*	*80-110*	18.21	*6.89*	*30*
Surr: Dibromofluoromethane	*20.37*	0	0	*20*	0	*102*	*85-115*	19.71	*3.29*	*30*
Surr: Toluene-d8	*19.01*	0	0	*20*	0	*95*	*85-110*	18.85	*0.845*	*30*

The following samples were analyzed in this batch:

18051689-41A	18051689-42A

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R237021A** Instrument ID **VMS11** Method: **SW8260C**

MBLK Sample ID: **VBLKW1-180531-R237021A** Units: **µg/L** Analysis Date: **05/31/18 02:11 PM**
Client ID: Run ID: **VMS11_180531A** SeqNo: **5065561** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	0.33	1.0								
1,1,2,2-Tetrachloroethane	U	0.17	1.0								
1,1,2-Trichloroethane	U	0.22	1.0								
1,1,2-Trichlorotrifluoroethane	U	0.18	1.0								
1,1-Dichloroethane	U	0.48	1.0								
1,1-Dichloroethene	U	0.36	1.0								
1,2,4-Trichlorobenzene	U	0.25	1.0								
1,2-Dibromo-3-chloropropane	U	0.43	1.0								
1,2-Dibromoethane	U	0.17	1.0								
1,2-Dichlorobenzene	U	0.12	1.0								
1,2-Dichloroethane	U	0.11	1.0								
1,2-Dichloropropane	U	0.34	1.0								
1,3-Dichlorobenzene	U	0.13	1.0								
1,4-Dichlorobenzene	U	0.13	1.0								
2-Butanone	U	0.47	5.0								
2-Hexanone	U	0.5	5.0								
4-Methyl-2-pentanone	U	0.52	1.0								
Acetone	U	0.47	10								
Benzene	U	0.42	1.0								
Bromodichloromethane	U	0.22	1.0								
Bromoform	U	0.56	1.0								
Bromomethane	U	0.29	1.0								
Carbon disulfide	U	0.39	1.0								
Carbon tetrachloride	U	0.32	1.0								
Chlorobenzene	U	0.21	1.0								
Chloroethane	U	0.68	1.0								
Chloroform	U	0.46	1.0								
Chloromethane	U	0.68	1.0								
cis-1,2-Dichloroethene	U	0.38	1.0								
cis-1,3-Dichloropropene	U	0.13	1.0								
Cyclohexane	U	0.18	1.0								
Dibromochloromethane	U	0.2	1.0								
Dichlorodifluoromethane	U	0.3	1.0								
Ethylbenzene	U	0.29	1.0								
Isopropylbenzene	U	0.17	1.0								
m,p-Xylene	U	0.53	2.0								
Methyl acetate	U	0.26	2.0								
Methyl tert-butyl ether	U	0.21	1.0								
Methylcyclohexane	U	0.09	1.0								
Methylene chloride	U	0.16	5.0								
o-Xylene	U	0.19	1.0								
Styrene	U	0.19	1.0								
Tetrachloroethene	U	0.28	1.0								

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

Batch ID: **R237021A** Instrument ID **VMS11** Method: **SW8260C**

Toluene	U	0.32	1.0					
trans-1,2-Dichloroethene	U	0.48	1.0					
trans-1,3-Dichloropropene	U	0.15	1.0					
Trichloroethene	U	0.33	1.0					
Trichlorofluoromethane	U	0.24	1.0					
Vinyl chloride	U	0.53	1.0					
Xylenes, Total	U	0.74	3.0					
Surr: 1,2-Dichloroethane-d4	*23.01*	0	0	*20*	0	*115*	*75-120*	0
Surr: 4-Bromofluorobenzene	*21.36*	0	0	*20*	0	*107*	*80-110*	0
Surr: Dibromofluoromethane	*18.71*	0	0	*20*	0	*93.6*	*85-115*	0
Surr: Toluene-d8	*20.17*	0	0	*20*	0	*101*	*85-110*	0

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R237021A** Instrument ID **VMS11** Method: **SW8260C**

LCS Sample ID: **VLCSW1-180531-R237021A** Units: **µg/L** Analysis Date: **05/31/18 01:04 PM**
Client ID: Run ID: **VMS11_180531A** SeqNo: **5065560** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.63	0.33	1.0	20	0	113	75-130	0			
1,1,2,2-Tetrachloroethane	21.71	0.17	1.0	20	0	109	75-130	0			
1,1,2-Trichloroethane	20.21	0.22	1.0	20	0	101	75-125	0			
1,1-Dichloroethane	21.61	0.48	1.0	20	0	108	68-142	0			
1,1-Dichloroethene	24.23	0.36	1.0	20	0	121	70-145	0			
1,2,4-Trichlorobenzene	21.72	0.25	1.0	20	0	109	70-135	0			
1,2-Dibromo-3-chloropropane	19.03	0.43	1.0	20	0	95.2	60-130	0			
1,2-Dibromoethane	22.05	0.17	1.0	20	0	110	67-155	0			
1,2-Dichlorobenzene	20.16	0.12	1.0	20	0	101	70-130	0			
1,2-Dichloroethane	24.12	0.11	1.0	20	0	121	78-125	0			
1,2-Dichloropropane	22.26	0.34	1.0	20	0	111	75-125	0			
1,3-Dichlorobenzene	19.69	0.13	1.0	20	0	98.4	75-130	0			
1,4-Dichlorobenzene	20.93	0.13	1.0	20	0	105	75-130	0			
2-Butanone	22.63	0.47	5.0	20	0	113	55-150	0			
2-Hexanone	22.09	0.5	5.0	20	0	110	60-135	0			
4-Methyl-2-pentanone	27.57	0.52	1.0	20	0	138	77-178	0			
Acetone	20.93	0.47	10	20	0	105	60-160	0			
Benzene	22.54	0.42	1.0	20	0	113	85-125	0			
Bromodichloromethane	20.53	0.22	1.0	20	0	103	75-125	0			
Bromoform	16.92	0.56	1.0	20	0	84.6	60-125	0			
Bromomethane	16.74	0.29	1.0	20	0	83.7	30-185	0			
Carbon disulfide	20.48	0.39	1.0	20	0	102	60-165	0			
Carbon tetrachloride	21.53	0.32	1.0	20	0	108	65-140	0			
Chlorobenzene	20.5	0.21	1.0	20	0	102	80-120	0			
Chloroethane	19.08	0.68	1.0	20	0	95.4	50-140	0			
Chloroform	21.06	0.46	1.0	20	0	105	80-130	0			
Chloromethane	21.92	0.68	1.0	20	0	110	46-148	0			
cis-1,2-Dichloroethene	23.11	0.38	1.0	20	0	116	75-134	0			
cis-1,3-Dichloropropene	21.56	0.13	1.0	20	0	108	70-130	0			
Dibromochloromethane	17.97	0.2	1.0	20	0	89.8	60-115	0			
Dichlorodifluoromethane	16.65	0.3	1.0	20	0	83.2	20-120	0			
Ethylbenzene	21.87	0.29	1.0	20	0	109	76-123	0			
Isopropylbenzene	20.73	0.17	1.0	20	0	104	80-127	0			
m,p-Xylene	43.69	0.53	2.0	40	0	109	75-130	0			
Methyl tert-butyl ether	18.52	0.21	1.0	20	0	92.6	68-129	0			
Methylene chloride	23.99	0.16	5.0	20	0	120	75-140	0			
o-Xylene	22.19	0.19	1.0	20	0	111	76-127	0			
Styrene	20.84	0.19	1.0	20	0	104	83-137	0			
Tetrachloroethene	19.47	0.28	1.0	20	0	97.4	68-166	0			
Toluene	21.82	0.32	1.0	20	0	109	76-125	0			
trans-1,2-Dichloroethene	23.4	0.48	1.0	20	0	117	80-140	0			
trans-1,3-Dichloropropene	21.65	0.15	1.0	20	0	108	56-132	0			
Trichloroethene	20.48	0.33	1.0	20	0	102	84-130	0			

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

QC BATCH REPORT

Batch ID: **R237021A** Instrument ID **VMS11** Method: **SW8260C**

Trichlorofluoromethane	17.97	0.24	1.0	20	0	89.8	60-140	0
Vinyl chloride	19.55	0.53	1.0	20	0	97.8	50-136	0
Xylenes, Total	65.88	0.74	3.0	60	0	110	76-127	0
Surr: 1,2-Dichloroethane-d4	*23*	0	0	*20*	0	*115*	*75-120*	0
Surr: 4-Bromofluorobenzene	*20.96*	0	0	*20*	0	*105*	*80-110*	0
Surr: Dibromofluoromethane	*19.56*	0	0	*20*	0	*97.8*	*85-115*	0
Surr: Toluene-d8	*19.91*	0	0	*20*	0	*99.6*	*85-110*	0

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R237021A** Instrument ID **VMS11** Method: **SW8260C**

MS Sample ID: **18051884-01A MS** Units: **µg/L** Analysis Date: **05/31/18 10:30 PM**

Client ID: Run ID: **VMS11_180531A** SeqNo: **5065574** Prep Date: DF: **10**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	194.3	3.3	10	200	0	97.2	75-130	0			
1,1,2,2-Tetrachloroethane	208.5	1.7	10	200	0	104	75-130	0			
1,1,2-Trichloroethane	186.5	2.2	10	200	0	93.2	75-125	0			
1,1-Dichloroethane	187.8	4.8	10	200	0	93.9	68-142	0			
1,1-Dichloroethene	202.5	3.6	10	200	0	101	70-145	0			
1,2,4-Trichlorobenzene	180.4	2.5	10	200	0	90.2	70-135	0			
1,2-Dibromo-3-chloropropane	157.2	4.3	10	200	0	78.6	60-130	0			
1,2-Dibromoethane	204.2	1.7	10	200	0	102	67-155	0			
1,2-Dichlorobenzene	185.7	1.2	10	200	0	92.8	70-130	0			
1,2-Dichloroethane	229	1.1	10	200	0	114	78-125	0			
1,2-Dichloropropane	203.6	3.4	10	200	0	102	75-125	0			
1,3-Dichlorobenzene	185.7	1.3	10	200	0	92.8	75-130	0			
1,4-Dichlorobenzene	189.1	1.3	10	200	0	94.6	75-130	0			
2-Butanone	234.9	4.7	50	200	0	117	55-150	0			
2-Hexanone	215.7	5	50	200	0	108	60-135	0			
4-Methyl-2-pentanone	270.4	5.2	10	200	0	135	77-178	0			
Acetone	239.2	4.7	100	200	0	120	60-160	0			
Benzene	518.5	4.2	10	200	377.2	70.6	85-125	0			S
Bromodichloromethane	179.5	2.2	10	200	0	89.8	75-125	0			
Bromoform	145.4	5.6	10	200	0	72.7	60-125	0			
Bromomethane	108.1	2.9	10	200	0	54	30-185	0			
Carbon disulfide	169	3.9	10	200	0	84.5	60-165	0			
Carbon tetrachloride	172.9	3.2	10	200	0	86.4	65-140	0			
Chlorobenzene	178.6	2.1	10	200	0	89.3	80-120	0			
Chloroethane	149.2	6.8	10	200	0	74.6	50-140	0			
Chloroform	188.4	4.6	10	200	0	94.2	80-130	0			
Chloromethane	177.2	6.8	10	200	0	88.6	46-148	0			
cis-1,2-Dichloroethene	200.4	3.8	10	200	0	100	75-134	0			
cis-1,3-Dichloropropene	184.9	1.3	10	200	0	92.4	70-130	0			
Dibromochloromethane	160.8	2	10	200	0	80.4	60-115	0			
Dichlorodifluoromethane	129.1	3	10	200	0	64.6	20-120	0			
Ethylbenzene	200.7	2.9	10	200	17.7	91.5	76-123	0			
Isopropylbenzene	182.4	1.7	10	200	0	91.2	80-127	0			
m,p-Xylene	391.9	5.3	20	400	17.3	93.6	75-130	0			
Methyl tert-butyl ether	194	2.1	10	200	0	97	68-129	0			
Methylene chloride	222.6	1.6	50	200	0	111	75-140	0			
o-Xylene	202.7	1.9	10	200	10.8	96	76-127	0			
Styrene	190.3	1.9	10	200	0	95.2	83-137	0			
Tetrachloroethene	162.1	2.8	10	200	0	81	68-166	0			
Toluene	246.7	3.2	10	200	78.4	84.2	76-125	0			
trans-1,2-Dichloroethene	197.6	4.8	10	200	0	98.8	80-140	0			
trans-1,3-Dichloropropene	186.3	1.5	10	200	0	93.2	56-132	0			
Trichloroethene	173.6	3.3	10	200	0	86.8	84-130	0			

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

QC BATCH REPORT

Batch ID: **R237021A** Instrument ID **VMS11** Method: **SW8260C**

Trichlorofluoromethane	161.6	2.4	10	200	0	80.8	60-140	0
Vinyl chloride	150.7	5.3	10	200	0	75.4	50-136	0
Xylenes, Total	594.6	7.4	30	600	28.1	94.4	76-127	0
Surr: 1,2-Dichloroethane-d4	*227*	0	0	*200*	0	*114*	*75-120*	0
Surr: 4-Bromofluorobenzene	*207.8*	0	0	*200*	0	*104*	*80-110*	0
Surr: Dibromofluoromethane	*188.6*	0	0	*200*	0	*94.3*	*85-115*	0
Surr: Toluene-d8	*196.1*	0	0	*200*	0	*98*	*85-110*	0

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R237021A** Instrument ID **VMS11** Method: **SW8260C**

MSD Sample ID: **18051884-01A MSD** Units: **µg/L** Analysis Date: **05/31/18 10:52 PM**
Client ID: Run ID: **VMS11_180531A** SeqNo: **5065575** Prep Date: DF: **10**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	200.8	3.3	10	200	0	100	75-130	194.3	3.29	30	
1,1,2,2-Tetrachloroethane	206.7	1.7	10	200	0	103	75-130	208.5	0.867	30	
1,1,2-Trichloroethane	189.2	2.2	10	200	0	94.6	75-125	186.5	1.44	30	
1,1-Dichloroethane	198.3	4.8	10	200	0	99.2	68-142	187.8	5.44	30	
1,1-Dichloroethene	214.6	3.6	10	200	0	107	70-145	202.5	5.8	30	
1,2,4-Trichlorobenzene	190.1	2.5	10	200	0	95	70-135	180.4	5.24	30	
1,2-Dibromo-3-chloropropane	163.6	4.3	10	200	0	81.8	60-130	157.2	3.99	30	
1,2-Dibromoethane	210.4	1.7	10	200	0	105	67-155	204.2	2.99	30	
1,2-Dichlorobenzene	193.9	1.2	10	200	0	97	70-130	185.7	4.32	30	
1,2-Dichloroethane	240.7	1.1	10	200	0	120	78-125	229	4.98	30	
1,2-Dichloropropane	206	3.4	10	200	0	103	75-125	203.6	1.17	30	
1,3-Dichlorobenzene	194.7	1.3	10	200	0	97.4	75-130	185.7	4.73	30	
1,4-Dichlorobenzene	198.5	1.3	10	200	0	99.2	75-130	189.1	4.85	30	
2-Butanone	218.4	4.7	50	200	0	109	55-150	234.9	7.28	30	
2-Hexanone	214.9	5	50	200	0	107	60-135	215.7	0.372	30	
4-Methyl-2-pentanone	273.9	5.2	10	200	0	137	77-178	270.4	1.29	30	
Acetone	231	4.7	100	200	0	116	60-160	239.2	3.49	30	
Benzene	529.4	4.2	10	200	377.2	76.1	85-125	518.5	2.08	30	S
Bromodichloromethane	190.9	2.2	10	200	0	95.4	75-125	179.5	6.16	30	
Bromoform	150.9	5.6	10	200	0	75.4	60-125	145.4	3.71	30	
Bromomethane	129.5	2.9	10	200	0	64.8	30-185	108.1	18	30	
Carbon disulfide	175.9	3.9	10	200	0	88	60-165	169	4	30	
Carbon tetrachloride	184.4	3.2	10	200	0	92.2	65-140	172.9	6.44	30	
Chlorobenzene	191.3	2.1	10	200	0	95.6	80-120	178.6	6.87	30	
Chloroethane	164.2	6.8	10	200	0	82.1	50-140	149.2	9.57	30	
Chloroform	195.5	4.6	10	200	0	97.8	80-130	188.4	3.7	30	
Chloromethane	184.8	6.8	10	200	0	92.4	46-148	177.2	4.2	30	
cis-1,2-Dichloroethene	209.3	3.8	10	200	0	105	75-134	200.4	4.34	30	
cis-1,3-Dichloropropene	194	1.3	10	200	0	97	70-130	184.9	4.8	30	
Dibromochloromethane	169.3	2	10	200	0	84.6	60-115	160.8	5.15	30	
Dichlorodifluoromethane	132.6	3	10	200	0	66.3	20-120	129.1	2.67	30	
Ethylbenzene	219	2.9	10	200	17.7	101	76-123	200.7	8.72	30	
Isopropylbenzene	192.1	1.7	10	200	0	96	80-127	182.4	5.18	30	
m,p-Xylene	415.2	5.3	20	400	17.3	99.5	75-130	391.9	5.77	30	
Methyl tert-butyl ether	193.3	2.1	10	200	0	96.6	68-129	194	0.361	30	
Methylene chloride	225.4	1.6	50	200	0	113	75-140	222.6	1.25	30	
o-Xylene	213	1.9	10	200	10.8	101	76-127	202.7	4.96	30	
Styrene	202.3	1.9	10	200	0	101	83-137	190.3	6.11	30	
Tetrachloroethene	170.3	2.8	10	200	0	85.2	68-166	162.1	4.93	30	
Toluene	262.2	3.2	10	200	78.4	91.9	76-125	246.7	6.09	30	
trans-1,2-Dichloroethene	207.5	4.8	10	200	0	104	80-140	197.6	4.89	30	
trans-1,3-Dichloropropene	195.8	1.5	10	200	0	97.9	56-132	186.3	4.97	30	
Trichloroethene	183.3	3.3	10	200	0	91.6	84-130	173.6	5.44	30	

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R237021A** Instrument ID **VMS11** Method: **SW8260C**

Trichlorofluoromethane	170.8	2.4	10	200	0	85.4	60-140	161.6	5.54	30
Vinyl chloride	156.9	5.3	10	200	0	78.4	50-136	150.7	4.03	30
Xylenes, Total	628.2	7.4	30	600	28.1	100	76-127	594.6	5.5	30
Surr: 1,2-Dichloroethane-d4	*225.8*	0	0	*200*	0	*113*	*75-120*	227	*0.53*	*30*
Surr: 4-Bromofluorobenzene	*215.5*	0	0	*200*	0	*108*	*80-110*	207.8	*3.64*	*30*
Surr: Dibromofluoromethane	*189.6*	0	0	*200*	0	*94.8*	*85-115*	188.6	*0.529*	*30*
Surr: Toluene-d8	*198.1*	0	0	*200*	0	*99*	*85-110*	196.1	*1.01*	*30*

The following samples were analyzed in this batch: 18051689-41A

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R237002** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R237002** Units: **% of sample** Analysis Date: **05/30/18 08:00 PM**
Client ID: Run ID: **MOIST_180530E** SeqNo: **5063529** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.025	0.050								

LCS Sample ID: **LCS-R237002** Units: **% of sample** Analysis Date: **05/30/18 08:00 PM**
Client ID: Run ID: **MOIST_180530E** SeqNo: **5063528** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **18051689-01A DUP** Units: **% of sample** Analysis Date: **05/30/18 08:00 PM**
Client ID: **SB-1 (0-2)** Run ID: **MOIST_180530E** SeqNo: **5063507** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	30.08	0.025	0.050	0	0	0	0-0	28.28	6.17	10	

DUP Sample ID: **18051689-03A DUP** Units: **% of sample** Analysis Date: **05/30/18 08:00 PM**
Client ID: **SB-1 (9)** Run ID: **MOIST_180530E** SeqNo: **5063510** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	29.01	0.025	0.050	0	0	0	0-0	29.05	0.138	10	

The following samples were analyzed in this batch:

18051689-01A	18051689-02B	18051689-03A
18051689-04A	18051689-05A	18051689-06B

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R237090** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R237090** Units: **% of sample** Analysis Date: **05/31/18 01:00 PM**
Client ID: Run ID: **MOIST_180531A** SeqNo: **5065316** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.025	0.050								

LCS Sample ID: **LCS-R237090** Units: **% of sample** Analysis Date: **05/31/18 01:00 PM**
Client ID: Run ID: **MOIST_180531A** SeqNo: **5065315** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **18051974-01A DUP** Units: **% of sample** Analysis Date: **05/31/18 01:00 PM**
Client ID: Run ID: **MOIST_180531A** SeqNo: **5065300** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	15.76	0.025	0.050	0	0	0	0-0	15.59	1.08	10	

DUP Sample ID: **18052001-01A DUP** Units: **% of sample** Analysis Date: **05/31/18 01:00 PM**
Client ID: Run ID: **MOIST_180531A** SeqNo: **5065314** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.21	0.025	0.050	0	0	0	0-0	13.91	2.13	10	

The following samples were analyzed in this batch:

18051689-07A	18051689-08A	18051689-09A
18051689-10B	18051689-11A	18051689-12A

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R237091** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R237091** Units: **% of sample** Analysis Date: **05/31/18 03:05 PM**
Client ID: Run ID: **MOIST_180531B** SeqNo: **5065340** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.025	0.050								J

LCS Sample ID: **LCS-R237091** Units: **% of sample** Analysis Date: **05/31/18 03:05 PM**
Client ID: Run ID: **MOIST_180531B** SeqNo: **5065339** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **18051689-21A DUP** Units: **% of sample** Analysis Date: **05/31/18 03:05 PM**
Client ID: **SB-6 (0-2)** Run ID: **MOIST_180531B** SeqNo: **5065326** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.34	0.025	0.050	0	0	0	0-0	14.51	1.18	10	

DUP Sample ID: **18051718-03B DUP** Units: **% of sample** Analysis Date: **05/31/18 03:05 PM**
Client ID: Run ID: **MOIST_180531B** SeqNo: **5065330** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	10.82	0.025	0.050	0	0	0	0-0	11.06	2.19	10	

The following samples were analyzed in this batch:

18051689-13A	18051689-14B	18051689-15A
18051689-16A	18051689-17A	18051689-18B
18051689-19A	18051689-20A	18051689-21A

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

Client: Tetra Tech
Work Order: 18051689
Project: Former Health Module (X902514002.019.024)

QC BATCH REPORT

Batch ID: **R237096** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R237096** Units: **% of sample** Analysis Date: **05/31/18 04:20 PM**
Client ID: Run ID: **MOIST_180531C** SeqNo: **5065492** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.025	0.050								J

LCS Sample ID: **LCS-R237096** Units: **% of sample** Analysis Date: **05/31/18 04:20 PM**
Client ID: Run ID: **MOIST_180531C** SeqNo: **5065491** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **18051689-23A DUP** Units: **% of sample** Analysis Date: **05/31/18 04:20 PM**
Client ID: **SB-6 (9)** Run ID: **MOIST_180531C** SeqNo: **5065471** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	29.34	0.025	0.050	0	0	0	0-0	29.65	1.05	10	

DUP Sample ID: **18051689-33A DUP** Units: **% of sample** Analysis Date: **05/31/18 04:20 PM**
Client ID: **SB-9 (0-2)** Run ID: **MOIST_180531C** SeqNo: **5065482** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.04	0.025	0.050	0	0	0	0-0	16.57	2.8	10	

The following samples were analyzed in this batch:

18051689-22B	18051689-23A	18051689-24A
18051689-25A	18051689-26B	18051689-27A
18051689-28A	18051689-29A	18051689-30B
18051689-31A	18051689-32A	18051689-33A
18051689-34B	18051689-35A	18051689-36A
18051689-37A	18051689-38B	18051689-39A
18051689-40A		

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

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Chain of Custody Form

Page 1 of 5

COC ID: 185115

ALS Project Manager: TBB | ALS Work Order #: 1805 1689

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Former Health Module	A	RCRA Metals - Method 6010/7471
Work Order		Project Number	X9025140002019.024	B	SVOCs - Method 8270
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	TPHe - Method 8015
Send Report To	Kaitlyn Mitchell	Invoice Attn	Accounts Payable	D	VOCs - Method 8260
Address	415 Oak Street	Address	415 Oak Street	E	TPH-D - Method 8015
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address	Kaitlyn.Mitchell@tetratech.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-1 (0-2)	5/22/18	1440	Soil		1	X										
2	SB-1 (4)					6	X	X	X	X	X						
3	SB-1 (9)					1	X										
4	SB-1 (14)					1	X										
5	SB-2 (0-2)		1535			1	X										
6	SB-2 (4)					6	X	X	X	X	X						
7	SB-2 (9)					1	X										
8	SB-2 (14)					1	X										
9	SB-3 (0-2)		1610			1	X										
10	SB-3 (4)					6	X	X	X	X							

Sampler(s) Please Print & Sign: Kaitlyn Mitchell/Kc Mit

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box)

Results Due Date:

Relinquished by: Kc Mit	Date: 5/23/18	Time: 3PM	Received by: FedEx	Notes:	
Relinquished by: FedEx	Date: 5/24/18	Time: 1030	Received by (Laboratory):	Cooler ID	Cooler Temp.
Logged by (Laboratory): KC	Date: 5/24/18	Time: 1530	Checked by (Laboratory): TBB	5R2	4.8°C
					4.2°C
					3.6°C

QC Package: (Check One Box Below)

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
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Chain of Custody Form

COC ID: 185114

ALS Project Manager: TJB | ALS Work Order #: 1805169

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Former Health Module	A	RCRA Metals
Work Order		Project Number		B	SVOCs
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	TPH-C
Send Report To		Invoice Attn	Accounts Payable	D	VOCs
Address	415 Oak Street	Address	415 Oak Street	E	TPH-P
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
11	SB-3 (0)	5/22/18	1610	Soil		1	X										
12	SB-3 (14)	↓	↓	↓		1	X										
13	SB-4 (0-2)	5/23/18	0845			1	X										
14	SB-4 (4)					4	X	X	X	X	X						
15	SB-4 (9)					1	X										
16	SB-4 (14)		↓			1	X										
17	SB-5 (0-2)		0910			1	X										
18	SB-5 (4)					4	X	X	X	X	X						
19	SB-5 (9)					1	X										
20	SB-5 (14)	↓	↓	↓		1	X										

Sampler(s) Please Print & Sign: Kaitlyn Mitchell/KC Mitchell | Shipment Method: FedEx | Required Turnaround Time: (Check Box) | Results Due Date:

Relinquished by: KC Mitchell	Date: 5/23/18	Time: 3PM	Received by: FedEx	Notes:
Relinquished by: FedEx	Date: 5/24/18	Time: 1030	Received by (Laboratory):	Cooler ID / Cooler Temp. / QC Package: (Check One Box Below)
Logged by (Laboratory): KJ	Date: 5/24/18	Time: 1536	Checked by (Laboratory): TJB	

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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Chain of Custody Form

Page 3 of 5

COC ID: 185113

ALS Project Manager: TBB | ALS Work Order #: 18051689

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Former Health Module	A	RCRA Metals
Work Order		Project Number		B	SVOCs
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	TPH-E
Send Report To	Kaitlyn Mitchell	Invoice Attn	Accounts Payable	D	VOCs
Address	415 Oak Street	Address	415 Oak Street	E	TPH-P
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
21	SB-6 (0-2)	5/23/18	0930	Soil		1	X										
22	SB-6 (4)					6	X	X	X	X	X						
23	SB-6 (9)					1	X										
24	SB-6 (14)					1	X										
25	SB-7 (0-2)		1000			1	X										
26	SB-7 (4)					6	X	X	X	X	X						
27	SB-7 (9)					1	X										
28	SB-7 (14)					1	X										
29	SB-8 (0-2)		1030			1	X										
30	SB-8 (4)					6	X	X	X	X	X						

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
Kaitlyn Mitchell/KC Mit	FedEx		

Relinquished by:	Date:	Time:	Received by:	Notes:
KC Mit	5/23/18	3PM	FedEx	
Relinquished by: FedEx	Date: 5/24/18	Time: 1030	Received by (Laboratory):	
Logged by (Laboratory): KW	Date: 5/24/18	Time: 1530	Checked by (Laboratory): TBB	

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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Chain of Custody Form

COC ID: 185112

ALS Project Manager: TJB | ALS Work Order #: 1805689

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Former Health Module	A	RCRA Metals
Work Order		Project Number		B	SVOCs
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	TPH-C
Send Report To		Invoice Attn	Accounts Payable	D	VOCs
Address	415 Oak Street	Address	415 Oak Street	E	TPH-D
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
31	SB-8 (9)	5/23/18	1030	Soil		1	X										
32	SB-8 (14)					1	X										
33	SB-9 (0-2)		1105			1	X										
34	SB-9 (4)					6	X	X	X	X	X						
35	SB-9 (9)					1	X										
36	SB-9 (14)					1	X										
37	SB-10 (0-2)		1130			1	X										
38	SB-10 (4)					6	X	X	X	X	X						
39	SB-10 (9)					1	X										
40	SB-10 (14)					1	X										

Sampler(s) Please Print & Sign: Kaitlyn Mitchell / KC Mitch

Shipment Method: FedEx

Required Turnaround Time: (Check Box)

Results Due Date:

Relinquished by: KC Mitch	Date: 5/23/18	Time: 3PM	Received by: FedEx	Notes:
Relinquished by: FedEx	Date: 5/24/18	Time: 1030	Received by (Laboratory):	Cooler ID / Cooler Temp. / QC Package: (Check One Box Below)
Logged by (Laboratory): KC	Date: 5/24/18	Time: 1530	Checked by (Laboratory): TJB	

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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Chain of Custody Form

COC ID: 185110

ALS Project Manager: TBB | ALS Work Order #: 1805689

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Former Health Module	A	RCRA Metals
Work Order		Project Number		B	SVOCs
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	TPH-e
Send Report To		Invoice Attn	Accounts Payable	D	VOCs
Address	415 Oak Street	Address	415 Oak Street	E	TPH-p
				F	
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RB-1	5/23/18	1225	Water			X	X	X	X	X						
2																	
3	TRIP BLANK	5/23/18		WATER						X							
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Kaitlyn Mitchell Kaitlyn Mitchell | Shipment Method: FedEx | Required Turnaround Time: (Check Box) | Results Due Date:

Relinquished by: KC Mitchell	Date: 5/23/18	Time: 3PM	Received by: FedEx	Notes:
Relinquished by: FedEx	Date: 5/24/18	Time: 1030	Received by (Laboratory):	Cooler ID / Cooler Temp. / QC Package: (Check One Box Below)
Logged by (Laboratory): KL	Date: 5/24/18	Time: 1530	Checked by (Laboratory): TBB	

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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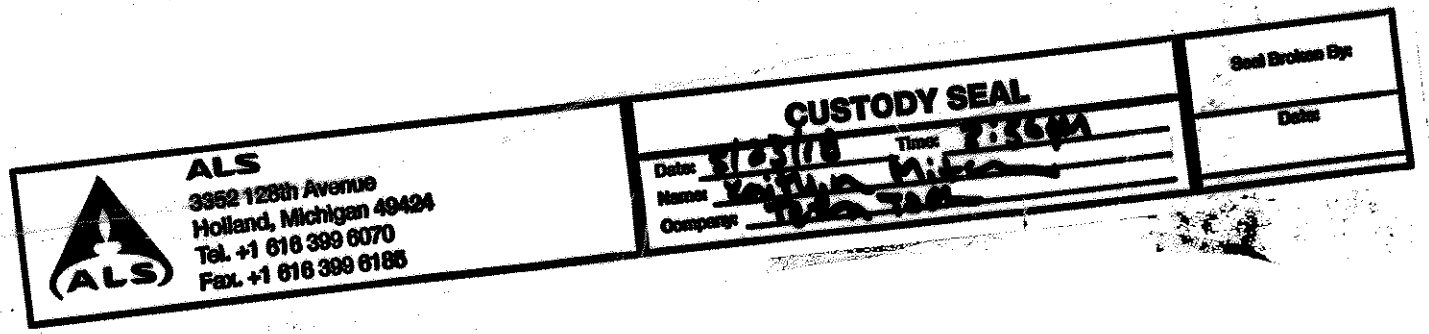

ALS
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL

Date: 5/23/18 Time: 8:35 AM
Name:
Company:

Seal Broken By:

Date:

ALS Group, USA

Sample Receipt Checklist

Client Name: **TETRATECH - MO** Date/Time Received: **24-May-18 10:30**

Work Order: **18051689** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 24-May-18 (Date) Reviewed by: Tom Bramish (eSignature) 24-May-18 (Date)

Matrices: Soil & Water

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):	4.8/4.8, 4.2/4.2, 3.6/3.6 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	5/24/2018 3:58:33 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:

Tetra Tech, Inc.
DATA VALIDATION REPORT
LEVEL II

Site:	Ponca Tribe, Former Health Module Site
Laboratory:	ALS Environmental Group (Holland, Michigan)
Data Reviewer:	Harry Ellis, Tetra Tech, Inc. (Tetra Tech)
Review Date	June 11, 2018
Sample Delivery Group (SDG):	1805689
Sample Numbers:	SB-1 (0-2), SB-1 (4), SB-1 (9), SB-1 (14), SB-2 (0-2), SB-2 (4), SB-2 (9), SB-2 (14), SB-3 (0-2), SB-3 (4), SB-3 (9), SB-3 (14), SB-4 (0-2), SB-4 (4), SB-4 (9), SB-4 (14), SB-5 (0-2), SB-5 (4), SB-5 (9), SB-5 (14), SB-6 (0-2), SB-6 (4), SB-6 (9), SB-6 (14), SB-7 (0-2), SB-7 (4), SB-7 (9), SB-7 (14), SB-8 (0-2), SB-8 (4), SB-9 (9), SB-8 (14), SB-9 (0-2), SB-9 (4), SB-9 (9), SB-9 (14), SB-10 (0-2), SB-10 (4), SB-10 (9), SB-10 (14), RB-1, and Trip Blank
Matrix / Number of Samples:	Forty Soil Samples and Two Blank Samples

The data were qualified according to the U.S. Environmental Protection Agency (EPA) Region 7 documents entitled "Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", dated January 2017, and “Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review", also dated January 2017. In addition, the Tetra Tech document “Review of Data Packages from Subcontracted Laboratories” (February 2002) was used along with other criteria specified in the applicable methods.

The review was intended to identify problems and quality control (QC) deficiencies that were readily apparent from the summary data package. The following sections discuss any problems or deficiencies that were found, and data qualifications applied because of non-compliant QC. The data review was limited to the available field and laboratory QC information submitted with the project-specific data package.

I, Harry Ellis, certify that all data validation criteria outlined in the above-referenced documents were assessed, and any qualifications made to the data accorded with those documents.

Harry N. Ellis III

11 June 2018

Certified by Harry Ellis, Chemist — Date

DATA VALIDATION QUALIFIERS

U — The analyte was not detected above the reported sample quantitation limit.

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

UJ — The analyte was not detected above the reported sample quantitation limit, which is estimated.

R — The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria. Presence or absence of the analyte cannot be verified.

DATA ASSESSMENT

Sample delivery group (SDG) 1805689 included forty (40) environmental soil samples and two (2) quality control (QC) sample (a rinsate blank and a trip blank). Samples were analyzed for volatile organic compounds (VOC) by EPA SW-846 Method 8260C, semivolatile organic compounds (SVOC) by EPA SW-846 Method 8270D, total petroleum hydrocarbons (TPH) by EPA SW-846 Method 8015C as gasoline range organics (GRO), diesel range organics (DRO, and oil range organics (ORO), and metals by EPA SW-846 Methods 6010C, 7470A, and 7471B. Only one sample per borehole received all analyses. The following summarizes the data validation that was performed.

VOLATILE ORGANIC COMPOUND ANALYSES

I. Holding Time and Chain of Custody (COC) Requirements

The samples were received by the laboratory and analyzed within the established holding time of 14 days from sample collection to analysis. No data were qualified.

II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD analyses performed on samples from other sites were not evaluated. All results from those performed on our samples were within QC limits so no qualifications were applied.

III. Blanks

The laboratory (method) blanks and the equipment rinsate blank yielded no detectable concentrations of analytes, but the trip blank yielded a low concentration of chloroform, possibly indicating the use of potable water for the sample, and the common laboratory contaminant methylene chloride. Those two analytes were not detected in any of the other field samples, so no qualifications were applied.

IV. Laboratory Control Sample (LCS)

All percent recoveries from the LCS analyses were within established control limits. No qualifications were applied.

V. Surrogates

Almost all surrogate recoveries were within their QC limits. However, dibromofluoromethane yielded recoveries slightly below limits in several soil samples. As seen in earlier packages from this area, this is probably due to interactions with the preservative trisodium phosphate. No qualifications were applied.

VI. Comments

Some detected concentrations were less than their reporting limits ("RL"). These low-concentration results were qualified as estimated (flagged "J").

VII. Overall Assessment of Data

Overall data quality is acceptable, with no significant qualifications applied. All data are usable as qualified for their intended purposes.

SEMIVOLATILE ORGANIC COMPOUND ANALYSES

I. Holding Time and Chain of Custody (COC) Requirements

The samples were received by the laboratory and analyzed within the established holding time of 14 days from sample collection to extraction and 40 days to analysis. No data were qualified.

II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD analyses performed on samples from another site were not evaluated. Results from those performed on sample SB-5 (4) were all within limits so no qualifications were applied.

III. Blanks

The laboratory (method) blanks yielded no detectable analytes. The rinsate blank yielded a low concentration of the ubiquitous contaminant bis(2-ethylhexyl)phthalate. That analyte was not detected or was detected at much greater concentrations in the soil samples so no qualifications were applied.

IV. Laboratory Control Sample (LCS)

All percent recoveries from the LCS analyses were within established control limits. No qualifications were applied.

V. Surrogates

Most surrogate recoveries were within QC limits. For sample SB-1 (4), one (of three) acidic surrogate and all three base/neutral surrogates yielded recoveries below QC limits. Therefore all SVOC results for that sample were qualified as estimated, possibly biased low, and flagged "J" or "UJ", as appropriate. For sample SB-9 (4) all acidic surrogate recoveries were within limits but two of the base/neutral surrogates yielded low recoveries. Therefore results for all base/neutral surrogates in sample SB-9 (4) were qualified as estimated, possibly biased low, and flagged "J" or "UJ".

VI. Comments

Some detected concentrations were less than their RLs. These low-concentration results were qualified as estimated (flagged "J").

VII. Overall Assessment of Data

Overall data quality is acceptable, with no major qualifications applied. All data are usable as qualified for their intended purposes.

TOTAL PETROLEUM HYDROCARBON ANALYSES

I. Holding Time and Chain of Custody (COC) Requirements

The samples were received by the laboratory and analyzed within the established holding times. No data were qualified.

II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

All MS/MSD results were within limits. No qualifications were applied.

III. Blanks

The laboratory (method) blanks and field blanks yielded no detectable analytes. No qualifications were applied.

IV. Laboratory Control Sample (LCS)

All percent recoveries from the LCS analyses were within established control limits. No qualifications were applied.

V. Surrogates

All surrogate recoveries were within QC limits so no qualifications were applied.

VI. Comments

Some of the detected concentrations were less than their RLs. These low-concentration results were qualified as estimated (flagged "J").

VII. Overall Assessment of Data

Overall data quality is acceptable, with no qualifications applied. All data are usable as reported for their intended purposes.

METALS ANALYSES

I. Holding Time and Chain of Custody (COC) Requirements

The samples were received by the laboratory and analyzed within the established holding times of 28 days (for mercury) and 6 months (for all other metals) from sample collection to analysis. No data were qualified.

II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD analyses performed on samples from other sites were not evaluated. In the MS/MSD analyses performed on sample SB-5 (0-2), recoveries of barium would not be determined because the unspiked sample contained much more barium than the spike. No qualifications were applied for these data gaps. Recoveries of chromium were 239 and 156 percent, well above the limits of 75 to 125 percent, and the relative percent difference (RPD) was quite high. Due to the uncertainty in the actual chromium concentration in that sample, the result was qualified as estimated and flagged "J".

III. Blanks

The equipment blank yielded low concentrations of arsenic, barium, cadmium, chromium, lead, and selenium. The sample concentrations of arsenic, barium, chromium, and lead are generally much higher than this blank concentration. However, most of the detected cadmium and selenium concentrations were low and may reflect some cross-contamination. Due to the uncertainty in the association between the rinsate and the various samples, no qualifications were applied.

The first two (of three) soil laboratory blanks yielded low concentrations (below the reporting limit) of chromium. The associated results for chromium in samples SB-1 (9) and SB-3 (9) were below their reporting limits, so they were qualified as estimated and flagged "U". The third blank yielded a low concentration of silver. Silver was not detected in the associated samples so no further qualifications were applied.

IV. Laboratory Control Sample (LCS)

All percent recoveries from the LCS analyses were within established control limits. No qualifications were applied.

V. Comments

Some detected concentrations were less than their RLs. These low-concentration results were qualified as estimated (flagged "J"). Samples SB-1 (9), SB-3 (0-2), SB-3 (9), and Sb-8 (9) were analyzed for arsenic, chromium, lead, and selenium at 10-fold dilutions to minimize matrix interference. Therefore the nondetected results for those metals in those samples are not comparable to those in the other samples.

VI. Overall Assessment of Data

Overall data quality is acceptable, with no significant qualifications applied. All data are usable as qualified for their intended purposes.

APPENDIX E

ANALYTICAL TABLES

TABLE E-1

SUMMARY OF VOC ANALYSIS OF SOIL SAMPLES
PONCA TRIBE OF NEBRASKA
FORMER HEALTH MODULE

Sample Location	Depth Interval (ft bgs)	Sample Results (mg/kg)		
		Acetone	2-Butanone	Toluene
SB-1	14-16	ND	ND	ND
SB-2	14-16	ND	ND	ND
SB-3	14-16	ND	ND	ND
SB-4	14-16	0.053	ND	ND
SB-1 (4)	4	0.0055 J	ND	ND
SB-2 (4)	4	0.0050 J	ND	ND
SB-3 (4)	4	0.0048 J	ND	ND
SB-4 (4)	4	ND	0.0027 J	0.00071 J
SB-5 (4)	4	0.020	0.0027 J	ND
SB-6 (4)	4	ND	ND	ND
SB-7 (4)	4	0.021	0.0045 J	ND
SB-8 (4)	4	0.043	0.012 J	ND
SB-9 (4)	4	0.0093 J	ND	ND
SB-10 (4)	4	0.020	0.0029 J	ND
Screening Values (mg/kg)				
EPA RSL for Residential Soil		61,000	27,000	4,900
EPA RSL for Industrial Soil		670,000	190,000	47,000
NDEQ VCP RGs for Residential Soil		16,000	7,500	1,300
NDEQ VCP RGs for Industrial Soil		100,000	100,000	49,000

Notes:

bgs Below ground surface
EPA U.S. Environmental Protection Agency
ft Feet
J Analyte present at estimated concentration between Method Detection Limit and Reporting Limit
mg/kg Milligrams per kilogram
ND Analyte not detected at concentration above laboratory reporting limit
NDEQ Nebraska Department of Environmental Quality
RG Remediation Goal
RSL Regional screening level
SB Soil boring
VCP Voluntary Cleanup Program
VOC Volatile organic compound

TABLE E-2

SUMMARY OF SVOC ANALYSIS OF SOIL SAMPLES
PONCA TRIBE OF NEBRASKA
FORMER HEALTH MODULE

Sample Location	Depth Interval (ft bgs)	Sample Results (mg/kg)						
		1,1'-Biphenyl	2-Methylnaphthalene	Bis(2-ethylhexyl) phthalate	Butyl benzyl phthalate	Fluorene	Naphthalene	Di-n-butyl phthalate
SB-1	14-16	ND	ND	0.011	0.0032 J	ND	ND	ND
SB-2	14-16	ND	ND	0.017	ND	ND	ND	ND
SB-3	14-16	ND	ND	0.037	ND	ND	ND	0.002J
SB-4	14-16	ND	ND	0.022	ND	ND	ND	ND
SB-1 (4)	4	ND	0.016	0.22	ND	ND	0.0092 J	ND
SB-2 (4)	4	0.036 J	0.88	ND	0.10	0.058	0.17	ND
SB-3 (4)	4	ND	ND	0.053	0.040 J	ND	ND	ND
SB-4 (4)	4	ND	ND	0.064	0.033 J	ND	ND	ND
SB-5 (4)	4	ND	ND	ND	0.046	ND	ND	ND
SB-6 (4)	4	ND	ND	0.042	ND	ND	ND	ND
SB-7 (4)	4	ND	ND	0.040	ND	ND	ND	ND
SB-8 (4)	4	ND	ND	0.075	ND	ND	ND	ND
SB-9 (4)	4	ND	ND	0.045 J	ND	ND	ND	ND
SB-10 (4)	4	ND	ND	ND	ND	ND	ND	ND
Screening Values (mg/kg)								
EPA RSL for Residential Soil		47	240	39	290	2,400	3.8	NE
EPA RSL for Industrial Soil		200	3,000	160	1,200	30,000	17	NE
NDEQ VCP RGs for Residential Soil		980	NE	35	260	780	4.3	1,500
NDEQ VCP RGs for Industrial Soil		51,000	NE	1,200	9,100	41,000	220	62,000

Notes:

bgs	Below ground surface
EPA	U.S. Environmental Protection Agency
ft	Feet
J	Analyte present at estimated concentration between Method Detection Limit and Reporting Limit
mg/kg	Milligrams per kilogram
NDEQ	Nebraska Department of Environmental Quality
ND	Analyte not detected at concentration above laboratory reporting limit
NE	None established
RG	Remediation Goal
RSL	Regional screening level
SB	Soil boring
SVOC	Semivolatile organic compound
VCP	Voluntary Cleanup Program

TABLE E-3

SUMMARY OF TPH ANALYSIS OF SOIL SAMPLES
PONCA TRIBE OF NEBRASKA
FORMER HEALTH MODULE

Sample Location	Depth Interval (ft bgs)	Sample Results (mg/kg)		
		TPH-DRO	TPH-ORO	TPH-GRO
SB-1	14-16	1.7 J	7.3	ND
SB-2	14-16	1.7 J	5.5	ND
SB-3	14-16	2.6	9.6	ND
SB-4	14-16	1.6 J	3.0 J	ND
SB-1 (4)	4	7.9	35	ND
SB-2 (4)	4	4.8 J	7.1	ND
SB-3 (4)	4	4.4 J	9.8	ND
SB-4 (4)	4	20	69	ND
SB-5 (4)	4	6.6	23	ND
SB-6 (4)	4	ND	9.2	ND
SB-7 (4)	4	4.7 J	13	ND
SB-8 (4)	4	5.3 J	9.6	ND
SB-9 (4)	4	ND	6.4 J	ND
SB-10 (4)	4	5.1 J	9.9	ND
Screening Values (mg/kg)				
EPA RSL for Residential Soil		96*	230,000*	520*
EPA RSL for Industrial Soil		440*	3,500,000*	2,200*
NDEQ Petroleum RBSLs (Direct Contact Pathway)		9,520**	3,172***	NE

Notes:

Bold value indicates result is greater than one or more screening values.

* No EPA standard has been established for TPH-DRO, TPH-DRO, or TPH-GRO. The value represents TPH Aliphatic Low for TPH-GRO, TPH Aliphatic Medium for TPH-DRO, and TPH Aliphatic High for TPH-ORO.

** The value represents the statewide standard for TEH Diesel.

*** The value represents the statewide standard for TEH Waste Oil.

bgs	Below ground surface
DRO	Diesel-range organics
EPA	U.S. Environmental Protection Agency
ft	Feet
GRO	Gasoline-range organics
mg/kg	Milligrams per kilogram
ND	Analyte not detected at concentration above laboratory reporting limit
NE	None established
ORO	Oil-range organics
RBSL	Risk-Based Screening Level
RSL	Regional screening level
SB	Soil boring
TEH	Total extractable hydrocarbons
TPH	Total petroleum hydrocarbons

TABLE E-4

SUMMARY OF RCRA METALS ANALYSIS OF SOIL SAMPLES
PONCA TRIBE OF NEBRASKA
FORMER HEALTH MODULE

Sample Location	Depth Interval (ft bgs)	Sample Results (mg/kg)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
SB-1	14-16	**7.98**	32.9	1.66	2.75	24.6	0.0641	7.68	0.192 J
SB-2	14-16	**78.6**	244	16.2	40.1	6.62	0.110	5.21	0.591 J
SB-3	14-16	**10.9**	66	0.298 J	4.33	24.9	0.161	3.55	0.136 J
SB-4	14-16	**121**	216	**27.1**	48.8	8.5	0.115	11.7	0.756
SS-1	0-0.5	**6.31**	139	0.399 J	8.01	16.8	0.0404	1.12	ND
SS-2	0-0.5	**5.75**	141	0.363 J	8.16	12.2	0.0311	1.10	ND
SB-1 (0-2)	0-2	**8.8**	48	ND	4.2	18	0.079	ND	ND
SB-1 (4)	4	**2.0**	53	ND	3.6	14	0.11	ND	ND
SB-1 (9)	9	**50**	120	0.30 J	3.0 J	74	0.093	3.1 J	ND
SB-1 (14)	14	**18**	220	ND	ND	85	0.034	2.0	ND
SB-2 (0-2)	0-2	**9.2**	120	0.68 J	13	6.3	0.043	0.86 J	ND
SB-2 (4)	4	**4.0**	820	0.97 J	4.1	16	0.11	ND	ND
SB-2 (9)	9	**13**	150	ND	3.6	21	0.099	ND	ND
SB-2 (14)	14	**10**	120	ND	1.5	36	0.080	1.6	ND
SB-3 (0-2)	0-2	**6.7**	150	0.17 J	21	7.7	0.024	ND	ND
SB-3 (4)	4	**16**	46	0.37 J	12	5.7	0.045	0.29 J	ND
SB-3 (9)	9	**4.7 J**	130	ND	5.1 J	19	0.072	ND	ND
SB-3 (14)	14	**8.1**	52	ND	0.94	27	0.070	1.0	ND
SB-4 (0-2)	0-2	**8.9**	220	0.35 J	9.6	9.0	0.046	0.57 J	ND
SB-4 (4)	4	**17**	81	0.37 J	7.0	11	0.077	ND	ND
SB-4 (9)	9	**2.8**	35	ND	2.3	16	0.070	ND	ND
SB-4 (14)	14	**6.9**	100	ND	1.3	34	0.13	0.50 J	ND
SB-5 (0-2)	0-2	**7.5**	180	0.37 J	7.9	8.5	0.029	0.71 J	ND
SB-5 (4)	4	**4.4**	84	0.20 J	5.0	5.7	0.023	ND	ND
SB-5 (9)	9	**21**	180	0.78 J	10	12	0.070	0.59 J	ND
SB-5 (14)	14	**70**	190	8.9	16	12	0.075	4.5	ND
SB-6 (0-2)	0-2	**6.4**	230	0.38 J	6.4	8.1	0.028	0.67 J	ND
SB-6 (4)	4	**3.4**	120	0.13 J	9.0	8.1	0.033	ND	ND
SB-6 (9)	9	**4.8**	79	ND	4.2	17	0.089	ND	ND
SB-6 (14)	14	**5.1**	54	ND	2.6	16	0.078	ND	ND
SB-7 (0-2)	0-2	**7.6**	240	0.34 J	9.1	12	0.048	0.88 J	ND
SB-7 (4)	4	**20**	61	0.52 J	13	6.8	0.035	0.72 J	ND
SB-7 (9)	9	**8.4**	130	0.15 J	4.5	20	0.065	ND	ND
SB-7 (14)	14	**3.8**	55	ND	0.92	20	0.061	0.61 J	ND
SB-8 (0-2)	0-2	**4.6**	200	0.46 J	8.1	7.7	0.016 J	0.65 J	ND
SB-8 (4)	4	**3.7**	39	ND	3.2	13	0.13	1.4	ND
SB-8 (9)	9	**12**	130	ND	4.2 J	25	0.18	ND	ND
SB-8 (14)	14	**4.2**	39	0.85 J	2.1	21	0.31	9.8	ND
SB-9 (0-2)	0-2	**6.7**	160	0.28 J	7.5	8.1	0.021 J	0.64 J	ND
SB-9 (4)	4	**17**	69	0.47 J	3.6	35	0.11	1.3	ND
SB-9 (9)	9	**2.0**	100	ND	3.4	12	0.15	0.72 J	ND
SB-9 (14)	14	**11**	110	0.13 J	4.0	34	0.088	0.55 J	ND
SB-10 (0-2)	0-2	**6.5**	190	0.32 J	8.1	7.7	0.038	0.58 J	ND
SB-10 (4)	4	**2.3**	34	ND	3.6	16	0.030	ND	ND
SB-10 (9)	9	**4.6**	450	0.056 J	3.5	16	0.075	ND	ND
SB-10 (14)	14	**6.8**	42	ND	0.34 J	30	0.033	0.59 J	ND

TABLE E-4 (Continued)

SUMMARY OF RCRA METALS ANALYSIS OF SOIL SAMPLES
PONCA TRIBE OF NEBRASKA
FORMER HEALTH MODULE

Sample Location	Depth Interval (ft bgs)	Sample Results (mg/kg)							
		Arsenic	**Barium**	**Cadmium**	**Chromium**	**Lead**	**Mercury**	**Selenium**	**Silver**
Screening Values (mg/kg)									
USGS Mean Background Concentration		6.5	NE	NE	NE	23.6	0.024	1.653	NE
EPA RSL for Residential Soil		0.68	15,000	71	120,000*	400	11	390	390
EPA RSL for Industrial Soil		3.0	220,000	980	1,800,000*	800	46	5,800	5,800
NDEQ VCP RGs for Residential Soil		0.39	3,800	18	29,000*	400	5.9	98	98
NDEQ VCP RGs for Industrial Soil		16	100,000	890	100,000*	750	310	5,100	5,100

Notes:

Bold value indicates result is greater than the EPA RSL and/or NDEQ VCP RG for residential soil.

Shaded value indicates result is greater than the EPA RSLs for industrial soil.

* Represents screening level for chromium (III)

bgs	Below ground surface
EPA	U.S. Environmental Protection Agency
ft	Feet
J	Analyte present at estimated concentration between Method Detection Limit and Reporting Limit
mg/kg	Milligrams per kilogram
ND	Analyte not detected at concentration above laboratory reporting limit
NDEQ	Nebraska Department of Environmental Quality
NE	None established
RCRA	Resource Conservation and Recovery Act
RG	Remediation Goal
RSL	Regional screening level
SB	Soil boring
SS	Surface soil
USGS	U.S. Geological Survey
VCP	Voluntary Cleanup Program

APPENDIX F

PROPERTY PROFILE FORM

United States
ENVIRONMENTAL PROTECTION AGENCY
Washington, DC 20460

Form Approved
OMB Number No. 2050-0192
Expires 07-31-2012

PROPERTY PROFILE FORM—Brownfields

PART I- PROPERTY INFORMATION

COOPERATIVE AGREEMENT RECIPIENT INFORMATION

1. Cooperative Agreement Recipient Name (State/Tribe for Section 128(a) Cooperative Agreements; requestor/contractor for TBAs): The Ponca Tribe of Nebraska

2. Cooperative Agreement Number (contract number for TBAs): EP-S7-13-06

3. What type of cooperative agreement funding is being used for this property?

- ☐ Assessment
- ☐ Section 128(a) – State and Tribal Response
- ☐ Revolving Loan Fund
- ☑ TBA (EPA Regions Only)
- ☐ Cleanup

4. For Assessment, Cleanup, and Revolving Loan Fund cooperative agreements, what type of funding is being used at this property?

- ☑ Hazardous Substance
- ☐ Petroleum
- ☐ Both

5a. Indicate if this form is the initial or Updated Form:

- ☑ Initial Form
- ☐ Updated Form

5b. If "Updated Form," what's the ACRES Property ID?

PROPERTY BACKGROUND INFORMATION

6. Property Name: Former Health Module

7a. Street Address: 249 Spruce Avenue

7b. City: Niobrara

7c. County: Knox

7d. State: NE

7e. Zip code:

8. Size (in acres): 2.00

9. Parcel Number(s):

STATE & TRIBAL BROWNFIELDS/VOLUNTARY RESPONSE PROGRAM INFORMATION

10. State & Tribal Program Enrollment (If the property is not enrolled in a state program, check Property Not Enrolled check box):

Date of Enrollment:

ID Number (if applicable):

☑ Property Not Enrolled in a State or Tribal Program

PROPERTY GEOGRAPHIC INFORMATION *(EPA Brownfields Program, or its contractors, will provide complete latitude/longitude information if cooperative agreement recipients are unable)*

11a. Latitude (use 00.000000 decimal degree format): 42.751689

11b. Longitude (use -000.000000 decimal degree format): -98.033208

11c. Horizontal Collection Method: Global Positioning Method- Unspecified Parameters

11d. Source Map Scale Number (Only if a map/photo was used):

11e. Reference Point (e.g., Center of Facility or Station): Other Point

11f. Horizontal Reference Datum (Choose one):

- ☐ NAD27-North American Datum of 1927
- ☐ WGS84-World Geodetic System of 1984
- ☑ NAD83-North American Datum of 1983

PART II- ENVIRONMENTAL ACTIVITIES

ENVIRONMENTAL ASSESSMENT INFORMATION *(mandatory for Assessment Cooperative Agreements, State & Tribal Property-Specific Assessments, and TBAs; as available for Cleanup and RLF cooperative agreement recipients; CA = Cooperative Agreement)*

Table A – Environmental Assessment Activity (If there are multiple assessments, please use a separate line for each assessment)

Environmental Assessment Detail			Source of Funding (enter one source of funding per line; do not include funding received prior to the award of this						
Activity	Start Date	Completion Date	This US EPA CA	Other Federal	State/Tribal (exclude §128(a) funds)	Local Gov't	Private/ Other	Name of Entity Providing Funds	Amount of Funding Expended on this Activity
Phase I	12/17/2015	3/24/2017	☑	☐	☐	☐	☐	EPA	$5,000.00
Phase II	6/13/2016	8/11/2017	☑	☐	☐	☐	☐	EPA	$17,500.00
Phase II	5/22/2018	7/13/2018	☑	☐	☐	☐	☐	EPA	$18,000.00

12. Indicate whether cleanup is required: ☑ Yes ☐ No ☐ Unknown

CONTAMINANTS & MEDIA AFFECTED INFORMATION *(mandatory for all cooperative agreement types)*

Table B - Contaminants and Media Affected (check all that apply):

Contaminants

Class of Contaminant	REC*	Found	Cleaned Up
Petroleum/Petroleum Products	☐	☐	☐
Controlled Substances	☐	☐	☐
Asbestos	☑	☐	☐
PCBs	☐	☐	☐
VOCs	☐	☐	☐
Lead	☐	☐	☐
Other Metals	☐	☑	☐
PAHs	☐	☐	☐
Other Contaminants	☐	☐	☐
No Contaminants	☐		
Unknown	☐		

Media

Media	Affected	Cleaned Up
Soil	☑	☐
Air	☐	☐
Surface Water	☐	☐
Ground Water	☐	☐
Drinking Water	☐	☐
Sediments	☐	☐
No Media Affected	☐	
Unknown	☐	

*REC = Recognized Environmental Conditions

ENVIRONMENTAL CLEANUP INFORMATION *(mandatory for Cleanup and RLF Cooperative Agreements and State & Tribal Property-Specific Cleanups; as available for Assessment Cooperative Agreements and TBAs)*

13. Cleanup Activity Start Date: _____

14. Cleanup Activity Completion Date: _____

15. Acres Cleaned Up: _____

16. Date No Further Action/Cleanup Completion Document Issued
(If the property was not enrolled in a state or tribal program, leave blank): Date: _____

17. Number of Cleanup Jobs Leveraged: _____

18. If EPA Brownfields funding was used, indicate the type and amount (If any non-EPA funding was used, fill out Table C):

Type	Amount	Type	Amount
☐ Cleanup Cooperative Agreement	_____	☐ RLF Subgrant	_____
☐ RLF Loan	_____ Date RLF Loan Signed _____	☐ Section 128(a) State/Tribal Cooperative Agreement	_____

Table C - Environmental Cleanup Leveraged Funding Detail

Source of Funding (enter one source of funding per line; do not include funding received prior to the award of this EPA Cooperative Agreement)					
Other Federal	State/Tribal (exclude §128(a) funds)	Local Gov't	Private/ Other	Name of Entity Providing Funds	Amount of Funding Expended on this Activity
☐	☐	☐	☐		
☐	☐	☐	☐		
☐	☐	☐	☐		

PART II- ENVIRONMENTAL ACTIVITIES (continued)

INSTITUTIONAL & ENGINEERING CONTROLS INFORMATION *(mandatory for all cooperative agreement types)*

19a. Indicate whether Institutional Controls are required: ☐ Yes ☐ No ☑ Unknown

19b. If Institutional Controls were required, indicate the category (check all that apply):

☐ Proprietary Controls (e.g., easements, covenants) ☐ Governmental Controls (e.g., zoning, building codes)

☐ Informational Devices (e.g., state registries, deed notices) ☐ Enforcement/Permit Tools (e.g., permits, consent decrees)

Additional Institutional Controls Information:

Address of Data Source (URL if available): _____

19c. Indicate whether Institutional Controls in place: ☐ Yes ☑ No Date: _____

20a. Indicate whether Engineering Controls are required: ☐ Yes ☑ No ☐ Unknown

20b. If Engineering Controls were required, indicate the category (check all that apply):

☐ Cover Technologies (e.g., Capping) ☐ Immobilization Process (e.g., Encapsulation, In-Situ Solidification) ☐ Engineered Barriers (e.g., Slurry Walls, Sheet)

☐ Security (e.g., Guard, Fences) ☐ Other _____

Additional Engineering Controls Information:

The subject property was listed in the Iowa (IA) Leaking Underground Storage Tank (LUST), IA Underground Storage Tank (UST), identified as a REC during the Phase I TBA, is located and where TPH-DRO and TPH-GRO, lead and various compounds including metals were found in the soil and groundwater at concentrations exceeding the EPA RSL and EPA MCL

Address of Data Source (URL if available): _____

20c. Indicate whether Engineering Controls in place: ☐ Yes ☑ No Date: _____

REDEVELOPMENT AND OTHER LEVERAGED ACCOMPLISHMENTS *(Mandatory for Assessment, Cleanup and RLF Cooperative Agreements; as available for State and Tribal Property Specific Activities and TBAs)*

21. Redevelopment Start Date: _____ **22.** Redevelopment Completion Date: _____

Table D- Redevelopment Leveraged Funding Detail

Source of Funding (enter one source of funding per line; do not include funding received prior to the award of this EPA Cooperative Agreement)				Name of Entity Providing Funds	Amount of Funding Expended on this Activity
Other Federal	State/Tribal	Local Gov't	Private/ Other		
☐	☐	☐	☐		
☐	☐	☐	☐		
☐	☐	☐	☐		
☐	☐	☐	☐		

23. Number of Redevelopment Jobs Leveraged: _____

24. Future Use and Estimated Acreage (check all that apply; For properties with multi-story buildings only, please indicate also the square footage for each type of reuse (e.g. a three story building with first floor commercial and remaining floors residential).

☐ Multi-story building

☐ Greenspace _____ acres _____ sq. ft. ☑ Commercial 2.00 acres _____ sq. ft.

☐ Industrial _____ acres _____ sq. ft. ☐ Residential _____ acres _____ sq. ft.

25. Actual Acreage(s) and Type(s) of Greenspace Created: 2- acre property

PART II- ENVIRONMENTAL ACTIVITIES (continued)

ANECDOTAL PROPERTY INFORMATION *(as available for all cooperative agreement types)*

26. Property Highlights:

The subject property is an approximately 2-acre property at 249 Spruce Avenue in Niobrara, Knox County, Nebraska. Based on the sampling results from the Phase II TBA, RECs identified by the Phase I TBA were confirmed by results of sampling during the Phase II TBA. Based on soil metals concentrations, elevated levels of arsenic are present in subsurface soils on the northern portion of the subject property. Arsenic levels are above EPA RSLs and NDEQ VCP RGs for residential and industrial soils.

PROPERTY PHOTOGRAPH INFORMATION

27. Indicate whether photographs are available: ☑ Yes ☐ No **28.** Indicate whether video is available: ☐ Yes ☑ No

PART III- ADDITIONAL PROPERTY INFORMATION

PROPERTY HISTORY INFORMATION

29. Property Description / History / Past Ownership:

The subject property was historically a feed store, part of a race track, and a garage or shed until use as the Ponca Tribe of Nebraska's Health Services building.

30. Predominant Past Use(s) (check all that apply; For properties with multi-story buildings only, please indicate also the square footage for each type of reuse (e.g. a three story building with first floor commercial and remaining floors residential):

☐ Multi-story building

☐ Greenspace _____ acres _____ sq. ft. ☑ Commercial 2.00 acres _____ sq. ft.

☐ Residential _____ acres _____ sq. ft. ☐ Industrial _____ acres _____ sq. ft.

OWNERSHIP & SUPERFUND LIABILITY *(Mandatory for Cleanup and RLF Cooperative Agreements)*

31a. Ownership Entity:

☑ Government (Tribal, State, Local) ☐ Private

31b.Current Owner:

The Ponca Tribe of Nebraska

32a. During the life of the cooperative agreement, did ownership change?

☐ Yes ☑ No

32b. If "yes," did Superfund federal landowner liability protections factor into the ownership change?

☐ Yes ☐ No ☐ Unknown

PART IV- APPROVALS

33. Cooperative Agreement Recipient Project Manager

Name (please print): _____ Signature _____ Date: _____

34. US EPA Regional Representative

Name (please print): _____ Signature _____ Date: _____