



Phase II Environmental Site Assessment Report of Findings

Log Yard Area - Blue North Mill
283 Woodland Road
Kamiah, Idaho





PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT OF FINDINGS

Log Yard Area - Blue North Mill
283 Woodland Road
Kamiah, ID 83536

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December 2021
Project No. 350.0515.001



TABLE OF CONTENTS

EXECUTIVE SUMMARY	III
1.0 INTRODUCTION	1
1.1 GENERAL SITE DESCRIPTION	1
1.2 GEOLOGY, HYDROGEOLOGY, AND SOILS	2
1.3 PREVIOUS INVESTIGATIONS	2
2.0 INVESTIGATION METHODS.....	3
2.1 SURFACE SOIL INVESTIGATION	3
2.2 SUBSURFACE SOIL INVESTIGATION	4
2.2.1 Test Pits.....	4
2.2.2 Boreholes	5
2.3 GROUNDWATER INVESTIGATION	5
2.3.1 Well Installation.....	5
2.3.2 Groundwater Sampling and Aquifer Tests.....	5
2.4 EQUIPMENT DECONTAMINATION	6
2.5 FIELD AND LABORATORY QUALITY CONTROL PROCEDURES	6
2.6 DRONE-CAPTURED AERIAL IMAGERY.....	6
3.0 RESULTS	8
3.1 FIELD OBSERVATIONS.....	8
3.1.1 Surface Soil.....	8
3.1.2 Subsurface Soil – Test Pits and Boreholes.....	8
3.2 SCREENING LEVELS.....	9
3.3 LABORATORY RESULTS.....	9
3.3.1 Surface Soil.....	10
3.3.2 Subsurface Soil – Test Pits.....	10
3.3.3 Subsurface Soil – Boreholes	10
3.3.4 Groundwater.....	11
3.4 EVALUATION OF SLUG TEST DATA	11
3.5 DATA VALIDATION	11
3.5.1 Surface Soil and Test Pit Subsurface Soil.....	12
3.5.2 Borehole Subsurface Soil.....	12
3.5.3 Groundwater.....	13
3.6 DEVIATIONS FROM THE SAP	13
4.0 RECOMMENDATIONS.....	14
4.1 SURFACE AND SUBSURFACE SOILS	14
4.2 GROUNDWATER	14
5.0 REFERENCES.....	15



LIST OF TABLES

Table 1	Surface Soil Laboratory Results
Table 2	Test Pit Laboratory Results
Table 3	Borehole Soil Laboratory Results
Table 4	Groundwater Laboratory Results
Table 5	Groundwater Elevations
Table 6	Hydraulic Conductivity

LIST OF FIGURES

Figure 1	Location Map
Figure 2	Site Map
Figure 3	Site Plan Detail, Former Log Pond
Figure 4	Site Plan Detail, Northern Stockpile Area
Figure 5	Cross Section A-A', Former Log Pond
Figure 6	Cross Section B-B', Northern Stockpile
Figure 7	Surface Soil Results
Figure 8	Groundwater Results and Potentiometric Map #1
Figure 9	Potentiometric Map #2

LIST OF APPENDICES

Appendix A	Daily Field Notes and Photo Log
Appendix B	Field Sampling Forms
Appendix C	Borehole Logs, Well Construction Forms, and Well Development Logs
Appendix D	Laboratory Results and Data Validation Summaries
Appendix E	Aquifer Test Results



EXECUTIVE SUMMARY

NewFields Companies, LLC (NewFields) completed an investigation of the Log Yard Area of the Blue North Mill located at 283 Woodland Road in Kamiah, Idaho. The goal of the investigation to identify areas, if any, where additional investigation or cleanup would be necessary to support redevelopment of the former log yard. NewFields collected surface soil, subsurface soil, and groundwater samples at the site, analyzing the samples for petroleum, metals, PCBs, and PAHs. Based on a comparison of the data collected to screening levels, no additional investigation or cleanup is warranted. If the NPT were to adopt a proposed cleanup level for barium of 896 mg/kg, additional investigation and/or cleanup of boiler ash material in the northern stockpile area may be warranted.

Groundwater elevations indicated that groundwater on the site flows is to the southwest. Slug test results indicate porous conditions consistent with a sandy aquifer.

NewFields recommends producing a cost estimate for removal and disposal of the boiler ash in the northern stockpile area, should the NPT wish to remove the ash. We also recommend that prior to redevelopment, the NPT investigate methane concentrations in wood waste in the log pond.



1.0 INTRODUCTION

This report presents the results of a Phase II Environmental Site Assessment (ESA) of the log yard area at the Former Blue North Mill located at 283 Woodland Road in Kamiah, Idaho (**Figures 1 and 2**). NewFields Companies, LLC (NewFields) completed this ESA for the Nez Perce Tribe (NPT) using funds provided by the NPT Brownfields Tribal Response Program. This ESA was conducted in accordance with an EPA-approved Sampling and Analysis Plan (SAP; NewFields, 2021). The assessment was conducted to identify areas, if any, where cleanup would be necessary to support redevelopment of the former log yard.

1.1 GENERAL SITE DESCRIPTION

The former Blue North Mill consists of five parcels of land owned fee simple by the NPT, railways owned by the historical mill operator IFG-Kamp LLC, and one parcel of tribal trust land. The site is located at 283 Woodland Road in a rural area north of Kamiah, Idaho (**Figures 1 and 2**). The site is bounded to the south and west by the Clearwater River, to the north by rural agricultural properties, and to the east by Woodland Road and vacant properties (**Figure 2**).

The site is in Sections 35 and 36 of Township 34 N, Range 03 East. The latitude and longitude at the main entrance from Woodland Road are 46.24256 North, 116.02694 West, respectively. The site is located at approximately 1,180 feet above mean sea level. The Idaho County Tax Parcel numbers, legal descriptions, and approximate parcel sizes are shown in **Table 1-1**. The log yard area (**Figure 2**) is approximately 40 acres within portions of Parcels 2, 3, and 6.

Table 1-1. Parcel Descriptions

Parcel No.	Legal Description	Idaho County Tax Parcel ID	Parcel Size (acres)	Owner
Parcel 1	T34N R3E SEC 35 3.00 AC NORTH 920' OF LOT 14 LYING WEST OF RR LESS RR	34NO3E351950 A	3.00	NPT
Parcel 2	T34N R3E SEC 35 56.31 AC S 400' LOT 14 W OF RR LOT 14 E OF RR LOT, LESS RR	34NO3E352110 A	56.31	NPT
Parcel 3	T34N R3E SEC 36 29.16 AC TAX # 88	34NO3E365600 A	29.16	NPT
Parcel 4	T34N R3E SEC 36 15.00 AC TAX #25 E OF COUNTY RD LESS EAST 371.5 FT	34NO3E364511 A	15.00	NPT
Parcel 5	T34N R3E SEC 35 11.02 AC TAX #124 (FORMER CPRR ROW)	34NO3E350300 A	11.02	IFG-Kamp LLC
Parcel 6	None	###34NO3E36 (Tribal Tracts 1557A and 1557B)	44.35	Individual Indian Allotment

The site has cultural significance as a winter village and location where the Lewis and Clark expedition was hosted in spring 1806. From the 1940's until 2016, the site was a lumber mill (sawing/planning). The property had no industrial operations after 2016, when auction, equipment salvage, and an on-site fire occurred.



1.2 GEOLOGY, HYDROGEOLOGY, AND SOILS

Bedrock in the Kamiah area consists mostly of igneous rocks of Triassic to Miocene age. Rocks of the Idaho Batholith are overlain by early Cenozoic Kamiah Volcanics and thick deposits of Miocene Columbia River Basalts. Surficial deposits include landslide deposits, river terrace gravels, and alluvial deposits. The site is located on a large alluvial deposit on the inside bank of the Clearwater River (Kaufmann et al., 2006). An Idaho Department of Environmental Quality (IDEQ) Source Water Assessment stated that the site has surficial alluvium, basalt from approximately 60 to 120 feet below ground surface (bgs), and weathered granite below (IDEQ, 2005).

The Idaho Department of Water Resources (IDWR) database contains records for a total of 52 wells in Sections 35 and 36 of Township 34 N, Range 03 East (IDWR, 2021). Well depths ranged from 180 to 634 feet bgs with an average depth of approximately 370 feet bgs. Static water levels (SWL) ranged from 0 to 410 feet bgs with an average SWL of approximately 119 feet bgs. Well yields ranged up to 200 gallons per minute (gpm) with an average yield of 19 gpm. As described in Section 3.0 of this report, SWL on-site is from 18 to 21 feet bgs, approximately the elevation of the adjacent Clearwater River during low water conditions. Soils at the site are mapped by the U.S. Department of Agriculture (USDA, 2021) as the Itzee-Tombeall complex, which is described as somewhat excessively drained loamy sand associated with floodplain alluvium.

1.3 PREVIOUS INVESTIGATIONS

Previous studies listed below identified recognized environmental conditions (RECs) for the eastern and south-central portion of the site. The eastern portion of site was used for log storage and had intermittent wood waste fill from the 1960's to approximately 2011. The potential release of hazardous substances in connection with fill in the log yard was considered a REC by Farallon (2016).

A former log storage pond visible in historical aerial photos in the south-central portion of the site was reportedly filled during the early 1990's. Farallon (2016) considered fill in the former log storage pond to be a REC for the site. Boiler ash was reportedly stockpiled near the northern edge of the site (Farallon, 2016; **Figure 2**). Because of the potential release of hazardous substances in connection with the boiler ash, Farallon (2016) considered the northern stockpile to be a REC for the site. Alta (2019) suspected boiler ash in the northern stockpile area, as well. A May 2019 geophysical survey performed to delineate subsurface utilities and infrastructure was appended to the Alta (2019) planning document. The geophysical survey showed an area with elevated conductivity and magnetic susceptibility anomalies in the north-central portion of the site. The conductivity anomaly is referred to as the "northern stockpile area" (**Figure 2**) in this report.

NewFields (2020a) performed a building materials inspection of all on-site structures in 2020. The log yard area (**Figure 2**) has no buildings, and therefore was not part of the building materials inspection. This report presents the results of soil and groundwater investigation in the log yard area.



2.0 INVESTIGATION METHODS

The objective of this Phase II ESA was to evaluate if past use of the log yard has contaminated soil and/or groundwater. The investigation tasks are listed below.

- Collect composite surface soil samples in nine areas within the log yard (**Figure 2**). These areas overlap the former log pond and the footprint of the northern stockpile area.
- Advance 16 test pits to evaluate fill material in the former log pond (**Figure 3**) and northern stockpile area (**Figure 4**).
- Install, develop, and sample four groundwater monitoring wells (**Figure 2**) to evaluate groundwater flow and quality.
- Perform slug tests in two monitoring wells (MW-3 and MW-4, **Figure 2**) to estimate hydraulic conductivity of the shallow alluvial aquifer.

The investigation was completed in two stages. During the first stage, Staff Geologists Sam Berkelhammer and Beth Morter of NewFields sampled surface soil, oversaw excavation of test pits, and collected soil samples from test pits. In the second stage, Mr. Berkelhammer oversaw drilling of soil borings and construction and development of monitoring wells, sampled groundwater, conducted aquifer tests, and collected aerial imagery using NewFields' quadcopter drone. Personnel from the Nez Perce Tribe Cultural Resources Office were present for the surface and subsurface soil investigations and examined soil for the presence of cultural artifacts. No artifacts were found.

The methods used to complete each assessment task are described below. Daily field notes and site photographs are included as **Appendix A**. Field forms for sampling surface soil, logging and sampling test pits, and sampling groundwater are included as **Appendix B**. Borehole logs, monitoring well construction forms, and well development forms are included as **Appendix C**.

2.1 SURFACE SOIL INVESTIGATION

NewFields staff scientists collected composite samples of surface soil in nine areas within the log yard (**Figure 2**). Boundaries of these areas were delineated based on the presence of historical roads and berms in aerial photographs (NewFields, 2021). Surface soil samples were also collected in the former log storage pond identified by Farallon (2016) and the anomalous high-conductivity area (northern stockpile) identified in the Alta (2019) geophysical survey. One additional surface soil discrete sample (SS-10) was collected from suspected boiler ash at the surface of the northern stockpile area.

Within each composite surface soil sampling area, NewFields field staff collected twelve subsamples from 0 to 6 inches below ground surface (bgs). Subsamples were collected using a decontaminated trowel. To ensure representative composite sampling, NewFields followed a prescribed mixing and containerizing procedure generally consistent with ASTM Standard D 6051-15 (ASTM, 2015a). Subsample locations were evenly spaced on a north-south oriented grid within each sampling area. Soil from each sampling area was visually inspected for discoloration and screened for organic vapors with a Photo-Ionization Detector (PID) in accordance with NewFields Standard Operating Procedures (SOPs; see NewFields, 2021). Field personnel recorded surface soil conditions in general conformance with the Unified Soil Classification System (USCS) as described in ASTM D2488-00 (Visual-Manual Procedure). Soil descriptions were



tabulated in the field, and included PID value, textural class/grain size, color, density/consistency, moisture content, and whether chemical odors or staining were present (**Appendix B**).

Surface soil samples were labeled, packaged, and shipped under chain-of-custody to Pace Analytical Services, LLC (Pace Analytical). The samples were analyzed for the constituents listed below.

- Total Petroleum Hydrocarbons (TPH) by Northwest TPH Methods;
- Metals (Resource Conservation and Recovery Act (RCRA) list of 8, which are arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) by EPA Methods 6010 and 7471;
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082; and
- Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270 with Selective Ion Monitoring (SIM).

2.2 SUBSURFACE SOIL INVESTIGATION

NewFields investigated subsurface soil in the log yard area by excavating test pits in the former log pond and the northern stockpile area, and by drilling four boreholes into shallow fill and alluvium (**Figures 2 through 6**). Procedures employed during the test pit and borehole investigations are described below.

2.2.1 Test Pits

Jason Hendren, an equipment operator certified by the NPT Tribal Employment Rights Office (TERO), excavated eight test pits in the former log pond (**Figure 3**) and eight test pits in the northern stockpile area (**Figure 4**). Test pits were typically excavated to 13 feet below ground surface, except TP-5, where large cobbles caused refusal at a depth of approximately 3 feet bgs. At depth intervals of approximately two-feet in each test pit, NewFields staff logged soil conditions in accordance with USCS per ASTM D2488-00 (Visual-Manual Procedure).

Four test pit soil samples from each area were collected for laboratory analysis. In the log pond area, three samples were of fill material, and the sample from TP-15 was collected from native silty gravel below fill. In the northern stockpile area, one test pit soil sample was collected from shallow sandy fill, and three samples were from native sand and clay layers below fill. Test pit logs are provided in **Appendix B**.

Soil samples were submitted to Pace Analytical under chain of custody. The four test pit soil samples from the former log pond were analyzed for TPH, RCRA metals, PCBs, PAHs, and Volatile Organic Compounds (VOCs). Methods for all tests except VOCs are described above for surface soil. For VOCs, the laboratory used EPA Method 8260 to allow for the analysis of eight gasoline constituents (benzene, toluene, ethylbenzene, xylenes, naphthalene, methyl tert butyl ether (MTBE), 1,2-dichloroethane, and ethylene dibromide) identified in IDEQ (2012) guidance. In the northern stockpile area, one test pit soil sample (TP-6 (2')) was analyzed for the same constituents as the log pond samples, and the other samples were analyzed only for RCRA metals. After test pits were complete, each test pit was backfilled with material from approximately the same depth it originated, then bucket compacted.



2.2.2 Boreholes

Environmental West Exploration (Environmental West) drilled boreholes at the four locations shown on **Figure 2**. Environmental West used air-rotary techniques and collected samples at 5-foot intervals using split-spoon samplers driven below the drill head. All boreholes were converted to monitoring wells, as discussed below in Section 2.3.1.

The northern-most borehole (BH-1/MW-1) targeted the northern stockpile area. The western-most borehole (BH-2/MW-2) targeted the former log pond. The other two boreholes were in the eastern portion of the log yard: one near the Clearwater River (BH-3/MW-3) and one at the presumed upgradient edge of the log yard to the northeast (BH-4/MW-4, **Figure 2**). Because subsurface soil in the former log pond and northern stockpile areas had been investigated by test pitting, borehole soil was collected and observed at five-foot intervals for the first 15 feet in BH-1 and BH-2. In BH-3 and BH-4, soil was collected in 18-inch-long samples approximately 12 inches apart. Subsurface soil was screened and logged in the same manner described above. Borehole logs are included in **Appendix C**.

In each borehole, NewFields retained soil samples for laboratory analysis from the groundwater interface. NewFields also retained a sample at approximately 8 to 10 feet bgs in each borehole, except BH-2 which had insufficient recovery at this shallower interval. The field geologist packaged each borehole soil sample with ice and shipped the samples to Pace Analytical under chain of custody procedures. The laboratory analyzed each borehole soil sample for TPH, RCRA metals, PCBs, PAHs, and VOCs, except for the northern stockpile area, where only the sample from the groundwater interface had VOCs included in the list of laboratory tests.

2.3 GROUNDWATER INVESTIGATION

2.3.1 Well Installation

Environmental West installed four groundwater monitoring wells in the log yard area (**Figure 2**). The monitoring wells were constructed with 2-inch diameter schedule 40 PVC and 0.010-inch factory slotted well screen from 10 to 25 feet bgs. Environmental West placed silica-sand around the PVC casing from the bottom of the well to 2 feet above the top of the well screen, followed by hydrated bentonite chips to a depth of 1-foot bgs. The monitoring wells were then equipped with concrete surface seals and protective stickup well monuments and bollards. As-built diagrams of the installed monitoring wells are provided with boring logs in **Appendix C**. A licensed surveyor from Keller Associates determined the elevation, latitude, and longitude of the top of each PVC well casing after the wells were installed.

Following well installation, NewFields staff developed the wells by surging, bailing, and pumping water from each well until at least 10 well casing volumes had been removed. Well development records are included in **Appendix C**.

2.3.2 Groundwater Sampling and Aquifer Tests

To collect groundwater samples, NewFields staff purged each monitoring well using low-flow methods in accordance with the SAP (NewFields, 2021). During purge, the Staff Geologist measured field parameters, and purging continued until the field parameters stabilized. Prior to and during well purge, the geologist



measured water levels using a decontaminated electric water level probe. When field parameters had stabilized, NewFields staff collected groundwater samples into laboratory-provided containers. Groundwater samples were packaged in ice and shipped to Pace Analytical under chain of custody. The laboratory analyzed the groundwater samples for TPH, metals, PCBs, PAHs and VOCs.

NewFields conducted two aquifer slug tests in accordance with the SAP (NewFields, 2021) and ASTM Test Method D4044 (ASTM, 2015b) to estimate hydraulic conductivity of the shallow alluvial aquifer. Monitoring wells MW-3 and MW-4 were chosen for slug tests to represent conditions in relatively undisturbed portions of the former log yard. MW-4 represents up-gradient aquifer conditions, and MW-3 represents aquifer conditions closer to the Clearwater River (**Figure 2**). Data from the slug tests is provided in **Appendix E**.

2.4 EQUIPMENT DECONTAMINATION

All reusable sampling equipment used during this investigation was decontaminated. Prior to initiating decontamination, NewFields staff visually inspected sampling equipment for evidence of contamination and used a stiff brush to remove visible material. Once rough brushing was complete, decontamination of each piece of equipment was completed by following a sequential process of washing with Liquinox (a degreasing detergent), rinsing with deionized water, rinsing with 10% methanol, rinsing with deionized water, rinsing with 10% nitric acid, and finally rinsing with deionized water.

2.5 FIELD AND LABORATORY QUALITY CONTROL PROCEDURES

Field and laboratory quality control sampling was completed in accordance with the SAP (NewFields, 2021) and the EPA-approved QAPP (NewFields, 2020b). The following field QC samples were collected:

- One equipment rinse blank (ERB) sample was collected during each of the surface soil, borehole subsurface soil, and groundwater investigations. NewFields staff poured distilled water over a decontaminated sampling device and collected the water in laboratory provided containers. Samples were analyzed for the analytes described in the SAP.
- One blind field duplicate sample was collected during groundwater sampling. The natural sample was MW-4 and the duplicate was labeled MW-5.
- Laboratory blanks were included in sample coolers that contained soil and groundwater samples for VOC analysis. These trip blank samples were analyzed for VOCs by EPA Method 8260.

2.6 DRONE-CAPTURED AERIAL IMAGERY

NewFields captured aerial imagery of the site using a DJI Phantom 4 Pro V2.0 quadcopter. Six ground control points were placed at the site (see example control points in photo log, **Appendix A**). The ground control points were later surveyed by a licensed surveyor from Keller Associates. The parameters of the flight were specified using the DroneDeploy application, and included flight area, path, altitude, and velocity. Programmed flight altitude was 300 feet above ground surface and the flight area was about 150 acres. The flight lasted about 40 minutes and captured roughly 860 high-resolution photographs.



Photographs were uploaded to the NewFields server, and NewFields used the Pix4D software to create a photomosaic of the entire Blue North Mill site. The surveyed ground control points were used to georeference the resulting imagery and to calculate site topography on 1-foot contours. Example topography on 1-foot contours is shown in **Figures 3** and **4**. The ditches and berms used to create surface soil grids in the log yard are visible, and the northern stockpile is clearly seen. The imagery shows piles of fill material and debris in the former log pond. Past vehicle use is indicated by tracks running through the eastern portion of the log yard. Buildings are visible in the western portion of the former mill. NewFields provided complete photomosaic and topography files to the NPT Land Services - Geographic Information Systems (GIS) Department.



3.0 RESULTS

This section presents field observations and results of laboratory analysis of soil and groundwater samples, as well as calculated hydraulic conductivity of the shallow alluvial aquifer. Surface soil observations at each sub-sampling location, and test pit logs are provided in **Appendix B**. Borehole logs are in **Appendix C**. Laboratory reports and data validation summaries are included in **Appendix D**.

3.1 FIELD OBSERVATIONS

3.1.1 Surface Soil

Surface conditions in the log yard included gravel and asphalt roads, log piles, other wood waste such as sawdust and wood strips (hog fuel), and piles of basalt cobble fill material. Photos of the surface soil sampling areas are provided in **Appendix A**. Surface soils were typically compacted by vehicles. Vegetation in the log yard includes dispersed weeds and grass in open areas; trees, shrubs, and blackberry bushes in or near ditches. The western edge of the former log pond area (**Figure 2**) contained piled building debris. A stockpile of cobbly basalt fill about 10 feet tall is also in the former log pond area. The surface of the northern stockpile area (**Figure 2**) was likely boiler ash (variable grayish material with glassy grains).

Surface soil textures were mostly silty to clayey sand with pieces of basalt gravel and cobbles, and wood chips. Surface soil moisture was dry to moist. Observed surface soil colors included yellow-brown, dark brown, and olive brown. No staining or chemical odors were observed. PID values were consistently 0.0 ppm for surface soil at sample locations. Photographs and notes from the 12 subsamples in each of the nine surface soil sampling areas are provided in **Appendix B**.

3.1.2 Subsurface Soil – Test Pits and Boreholes

Based on test pit observations in the former log pond (**Figure 3**) and northern stockpile area (**Figure 4**), NewFields created cross sections depicting shallow fill and native soil. Cross section A-A' (**Figure 5**) shows materials along a north-south transect through the former log pond. Cross section B-B' (**Figure 6**) shows observed conditions along a northwest-southeast transect through the northern stockpile area. Both cross sections have test pit or borehole information projected from nearby observation points.

In log pond test pits (**Figure 3**), NewFields staff observed three feet of well-graded gravel with angular basalt and rounded alluvial cobbles at the surface. Beneath the surface cobble, NewFields observed a wet sandy matrix containing cobbles and wood waste (logs, wood strips, and wood chips). In test pit TP-14, the first approximately 8 feet were through a stockpile of cobbles and wood waste, underlain by cobbly fill, then the wet sandy fill with cobbles and wood waste. In TP-15 and TP-16 in the southern portion of the former log pond area, NewFields observed native soil below the cobbly fill. The native soil was saturated grey to brown silty sand with gravel and cobbles. Water was encountered at about three feet deep in TP-5 and at a similar elevation about 12 feet deep in TP-14. This shallow water may be perched water accumulating over relatively compact fill material. In addition to woody material, other solid waste observed in the former log pond included a layer of fabric in some of the northern test pits, and pieces of concrete, metal cables, and concrete pipe in the southern test pits.



No visual or olfactory evidence was observed in the log pond test pits. PID readings were below 6 ppm suggesting a lack of volatile organic contamination.

Test pit soil in the northern stockpile area (**Figure 4**) included a surface layer of burned glassy material in the uppermost foot. The glassy material is likely boiler ash as described by Farallon (2016) and Alta (2019). Beneath the glassy material, NewFields observed three to six feet of loose, dry, yellow-brown silty, sandy fill with gravel. Beneath the yellow-brown fill layer, NewFields observed basalt and alluvial cobbles with wood waste fill. The woody fill was like the material observed in the former log pond area. Wood waste in this layer consisted of logs up to 8-inches in diameter, wood strips, and wood chips. Below the woody fill layer, NewFields observed native material consisting of well-graded sand, clayey sand, and silty sand. Water was encountered in four of the test pits at depths of 8 to 10 feet bgs.

Except for the boiler ash, no observations of contamination were observed in the northern stockpile area. PID readings were below 4 ppm at all observation points in the northern stockpile area.

Subsurface soil observed in boreholes was consistent with observations from nearby test pits. Soil observed in BH-1 in the northern stockpile area was moist, silty sand with gravel and wood chips. Water was encountered in gray silty sand at 15 feet bgs, and well-graded sand to sandy gravel was observed from 20-25 feet bgs. PID readings ranged from 0 to 2.7 ppm. Soil observed in BH-2 in the former log pond area was sandy gravel and silty sand with wood chips. Water was encountered at about 18 feet bgs, and PID readings were 0.6 ppm and lower.

Outside of the log pond and northern stockpile area, NewFields observed gravelly material in boreholes BH-3 and BH-4 (**Figure 2**). In BH-3 near the southern edge of the log yard, the Staff Geologist observed silty sand with gravel in the upper 7 feet, silty sand with clay from 7 to about 18 feet bgs, and saturated well-graded sand with gravel from 18 to 22 feet bgs. The driller had no recovery from 22 to 25 feet bgs in BH-3. In BH-4 in the eastern part of the log yard, NewFields observed mostly silty sand with gravel. Sand layers were observed at 8 and 25 feet bgs and rounded alluvial basalt and granite gravel was present in the water-bearing zone at about 15 feet bgs. Borehole PID readings were below 0.5 ppm.

3.2 SCREENING LEVELS

To evaluate soil and groundwater data, NewFields compared site data to the following screening levels:

- Idaho Risk Evaluation Manual (IDEQ, 2018) and Idaho Risk Based Corrective Action guide (IDEQ, 2008) screening levels, where available.
- EPA Regional Screening Levels (EPA, 2021), where IDEQ screening levels were not available.
- Background concentration for arsenic, which was an average of the two closest results published by Shacklette and Boerngen (1984).

3.3 LABORATORY RESULTS

Laboratory results are compared to screening levels in subsections below for surface soil, subsurface soil, and groundwater. Results are tabulated in **Tables 1** through **4**.



3.3.1 Surface Soil

Surface soil analytical results are shown in **Table 1**. Composite surface soil samples from the site were not contaminated at concentrations above IDEQ or EPA screening levels. Generally low levels of TPH constituents were detected. TPH Residual Range Organics ranged from 35.9 to 258 mg/kg, and TPH Diesel Range Organics were detected from 4.35 to 57.8 mg/kg. Results for TPH-Diesel are shown on **Figure 7**. These detections are likely associated with minor leakage of oil and diesel during operation of equipment on the site.

No IDEQ-regulated PAHs were detected. The only PAH analyte detected was 2-chloronaphthalene in samples SS-6, SS-7, SS-8, and SS-9 at concentrations slightly above the laboratory reporting limit, and far below the EPA RSL. Arsenic, barium, chromium, and lead were detected, but all concentrations were below screening levels for industrial and residential land use, and the site-specific background concentrations of 4.2 mg/kg for arsenic. The Nez Perce Tribe is currently developing a regulation regarding hazardous waste cleanup that proposes a barium cleanup level of 896 mg/kg to protect groundwater on the reservation. If this proposed level were to be adopted, additional investigation and/or cleanup of barium in the northern stockpile area may be required. As shown on **Table 1** and **Figure 7**, two results (composite sample SS-3 and discrete sample SS-10) collected from the northern stockpile area exceeded the proposed barium cleanup level.

3.3.2 Subsurface Soil – Test Pits

Test pit subsurface soil analytical results are shown in **Table 2**. Several constituents were detected in subsurface soil from test pits, but no constituent was detected at a concentration above a screening level. Detected constituents in subsurface soil included barium, chromium, lead, acetone, chloroform, benzene, 1,4-dichlorobenzene, ethylbenzene, isopropyl benzene, n-propyl benzene, toluene, xylenes, and PAHs (2-chloronaphthalene, 2-methylnaphthalene, acenaphthylene, fluoranthene, flourene, naphthalene, phenanthrene, and pyrene), and TPH. TPH Residual Range Organics concentrations in test pit soil samples ranged from 47.5 to 1,930 mg/kg, and TPH Diesel Range Organics ranged from 22.4 to 877 mg/kg. Gasoline Range Organics were detected in samples TP-1 (9'), TP-4 (13'), and TP-14 (12') at concentrations ranging from 15.6 to 557 mg/kg. **Figure 3** shows TPH Diesel in the former log pond area test pits. No PCBs aroclors were detected in test pit subsurface soil samples.

As shown on **Table 2** and **Figure 4**, barium was detected in subsurface soil in the northern stockpile area test pits at concentrations up to 1,220 mg/kg (TP-6, 2 feet bgs). This concentration is above the proposed NPT cleanup level of 896 mg/kg.

3.3.3 Subsurface Soil – Boreholes

Borehole subsurface soil analytical results are shown in **Table 3**. No constituents were detected at concentrations above screening levels. Four VOCs and nine PAHs were detected in samples above the method detection limit. No PCB aroclors were detected in borehole subsurface soil samples. As shown in **Figure 3** and **Table 3**, TPH Residual Range and Diesel Range Organics were detected in BH-2 (15-16') and BH-1 (10-11'). Gasoline Range Organics were detected in BH-2 (15-16'). Barium was detected at a concentration of 156 mg/kg at 10 feet bgs in borehole for MW-1 (**Table 3**, **Figure 4**), suggesting that barium impacts in the northern stockpile area likely decrease with depth.



3.3.4 Groundwater

Groundwater analytical results are shown in **Table 4**. All groundwater results were below screening levels. **Figure 8** shows barium and TPH concentrations detected in groundwater. Barium was detected in all groundwater samples. TPH Diesel Range Organics were detected at concentrations ranging from 337 to 1,980 µg/L, with the highest concentrations in wells installed in the two most disturbed areas (MW-1 in the northern stockpile area, and MW-2 in the former log pond). Two PAH analytes were detected in wells MW-2, MW-3, and MW-4. No VOCs or PCBs were detected in groundwater samples.

The static water levels (**Table 5**) ranged from about 17 to 21 feet below the ground surface in the four monitoring wells. Water levels in the monitoring wells indicate that shallow alluvial groundwater at the site generally flows toward the Clearwater River. Exact flow direction depends on whether well MW-1 is included. Groundwater contours excluding MW-1 (**Figure 8**) indicate groundwater flow to the southwest, sub-parallel with the Clearwater River. Groundwater contours including MW-1 (**Figure 9**) suggest a slight groundwater mound in the MW-1 area. Well MW-1 had the highest groundwater elevation (about 1,172 feet above mean sea level) and was near open water present in low-lying areas with wetland vegetation, indicating a possible localized shallow groundwater anomaly.

3.4 EVALUATION OF SLUG TEST DATA

NewFields evaluated slug test data collected at MW-3 and MW-4 using standard hydrogeologic analysis software (Aqtesolv Version 4.50 Pro), and selected slug test solutions whose assumptions most closely matched the conceptual understanding of conditions at the site. Pressure transducer data was uploaded into Aqtesolv as elapsed time and displacement values. NewFields used information from well completion logs (e.g., borehole diameter, well casing diameter, saturated interval, etc.) as additional inputs for the slug test solutions. The Bouwer and Rice (1976) and Hvorslev (1951) slug-test solutions were selected to match the parameters of the tests (i.e., single-well test in an unconfined aquifer with a partially penetrating well). The Springer-Gelhar (1991) solution was chosen for the MW-3 slug-in #1 test because this test showed inertial effects.

Table 6 shows the calculated hydraulic conductivity values for the slug tests. Values ranged from about 22 – 127 feet/day. The slug test results suggest that the permeability of the sediments around MW-4 are slightly higher than those around MW-3. The estimated hydraulic conductivity values are typical for unconsolidated fine to coarse sand (Driscoll, 1986), which are consistent with the lithologies of water-bearing layers observed in the screened intervals in the two boreholes. See **Appendix E** for summaries of the slug test data and the hydraulic conductivity estimates calculated using Aqtesolv.

3.5 DATA VALIDATION

NewFields completed a data usability review and data validation in accordance with the EPA-approved QAPP (NewFields, 2018). Data validation summaries for this investigation are included with the lab reports in **Appendix C**. Data validation issues are summarized below.



3.5.1 Surface Soil and Test Pit Subsurface Soil

- Eight analytes were detected in method blank samples, but no results were qualified either because the analyte was not detected in the associated natural sample or because the method blank detection was less than the natural sample's method detection limit.
- MS/MSD percent recovery was below quality control limits for TPH Diesel Range Organics, and 14 results were qualified J-. MS/MSD relative percent difference were outside precision limits for Aroclor-1260 (PCB-1260) and TPH Diesel Range Organics, and 21 results were qualified J-.
- LCS percent recovery was above quality control limits for Aroclor-1016 and Aroclor-1260 (PCB-1016 and PCB-1260). These analytes were not detected, therefore no action was needed based on potential for slight high bias. LCS/LCSD relative percent difference was outside of quality control limits for acetone, chloroethane, and 1,1-dichloroethene. Three associated results were qualified as estimated (J).
- One of three surrogate percent recoveries associated with sample TP-14 (12') were outside quality control limits for Method 8270C. Results were not qualified because the other two surrogate recoveries for the method were within quality control limits.
- VOCs by EPA Method 8260B were requested on the chain of custody but were not logged in for analysis by the laboratory. As a result, VOCs were analyzed outside of the method specified holding time (14 days). 24 VOC results were detected in samples above the method detection limit and were qualified as estimated (J). The remaining VOC results were not detected above the method detection limits and were therefore rejected as potentially low biased, in accordance with the National Functional Guidelines (EPA, 2020). Non-detect results for VOCs are not reportable if samples are analyzed outside the method specified holding time because VOCs are both volatile and biodegradable.
- Laboratory control sample percent recovery was below quality control limits, and LCS/LCSD relative percent difference was outside precision limits for Trichlorofluoromethane. 5 results were qualified as estimated (J-).

3.5.2 Borehole Subsurface Soil

- Chromium was detected in the method blank that applied to sample BH-ERB_08312021 (equipment rinseate blank). The analyte was not detected in the sample, so no records were qualified. Barium was detected in the method blank, but no records were qualified because either the blank concentration was less than the sample method detection limit or the sample concentration was greater than 10 times the blank concentration.
- LCS percent recovery was above quality control limits for hexachlorobutadiene. One record for sample BH-ERB_08312021 (equipment rinseate blank) was potentially subject to high bias, but no corrective action was needed because the analyte was not detected in the sample.
- Matrix spike/matrix spike duplicate sample results were not evaluated for any analyte except mercury by Method 7471A, because matrix spikes were performed on samples of unknown matrix from other locations. Matrix spikes performed on unknown matrices are not applicable to project samples.



3.5.3 Groundwater

- The laboratory control sample/laboratory control sample duplicate relative percent difference was outside precision limits for trichloroethylene. One record was qualified as estimated (J).
- 1 of 3 surrogate recoveries for samples MW-1 and MW-2 were outside quality control limits for method 8270C SIM. No results were qualified because 2 of 3 surrogate percent recoveries were within quality control limits.
- No matrix spike/matrix spike duplicate sample results were evaluated because all matrix spikes were performed on samples of unknown matrix from another location. Matrix spike results on an unknown matrix are not applicable to project samples.
- Dichlorobromomethane and chloroform (analyzed by method 8260B) were detected in a trip blank. No results were qualified because these analytes were not detected in project samples.

While there were several minor data validation issues, the data collected at the site is valid and can be used to make informed decisions with respect to the potential for and severity of contamination at the site.

3.6 DEVIATIONS FROM THE SAP

Field staff completed the Phase II ESA in general conformance with the field methodologies identified in the SAP (NewFields, 2021), and the QAPP (NewFields, 2020b) with the following exceptions:

- The SAP stated that test pit subsurface soil from the northern stockpile area would be analyzed only for RCRA 8 Metals. One sample TP-6 (2') was also analyzed for all constituents to characterize fill material in the northern stockpile area.
- A discrete sample of what appeared to be boiler ash material was collected as an additional surface soil sample (SS-10) beyond the list of samples proposed in the SAP. This is the sample representing suspected boiler ash.
- Based on observed conditions during drilling, groundwater monitoring wells were installed with 15 feet of slotted well screen, rather than 10 feet as described in the SAP.
- The SAP stated that slug tests would be performed in the monitoring well in the former log pond area and the easternmost well. Slug tests were instead performed in the two eastern monitoring wells (MW-3 and MW-4) to investigate the characteristics of the natural aquifer in the least disturbed portions of the site.

The above deviations did not adversely affect the overall scope of work.



4.0 RECOMMENDATIONS

4.1 SURFACE AND SUBSURFACE SOILS

Based on a comparison of the results for metals, petroleum constituents, other PAHs and VOCs, and PCBs to IDEQ and EPA soil screening levels, no additional investigation or remediation of soil is warranted. If the NPT were to adopt the proposed cleanup level for barium, and perhaps other constituents, additional investigation and/or cleanup may be required in the northern stockpile area where surficial boiler ash is located. The NPT may wish to move forward with the removal of boiler ash to protect groundwater quality on the site. NewFields recommends a survey for explosive gases be completed in shallow soil in the log yard area prior to development in this area of the site. Buried wood waste is known to generate methane (IPCC, 2006), and this concern should be evaluated before building enclosed structures over or near the log pond.

4.2 GROUNDWATER

As with soil, comparison of the results for metals, petroleum constituents, other PAHs and VOCs, and PCBs to screening levels indicates that no additional investigation or remediation of groundwater is warranted.



5.0 REFERENCES

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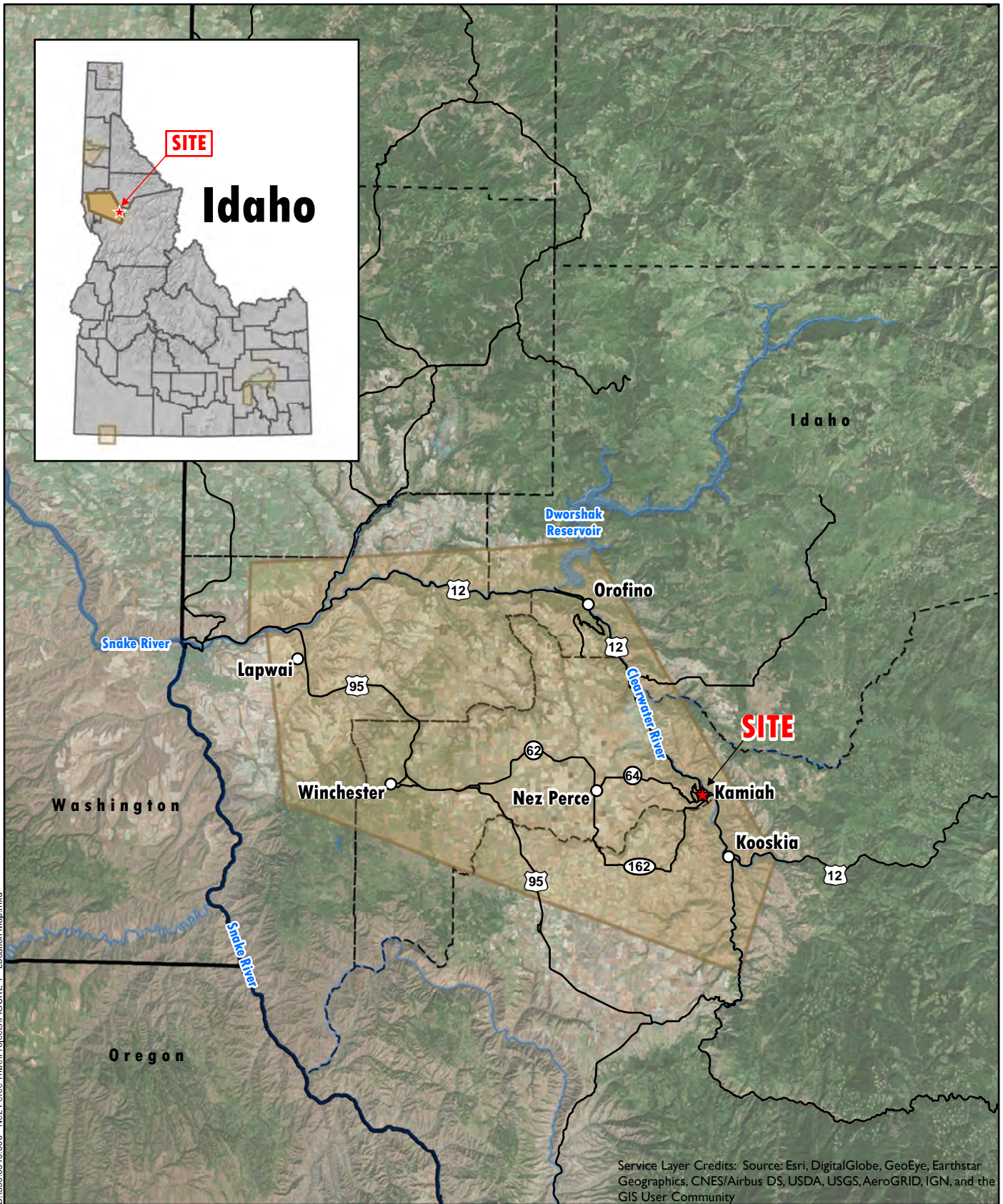
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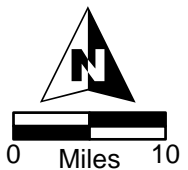


FIGURES



D:\350\0515\000 - Nez Perce TribelProject\FIGURE 1 - Location Map.mxd

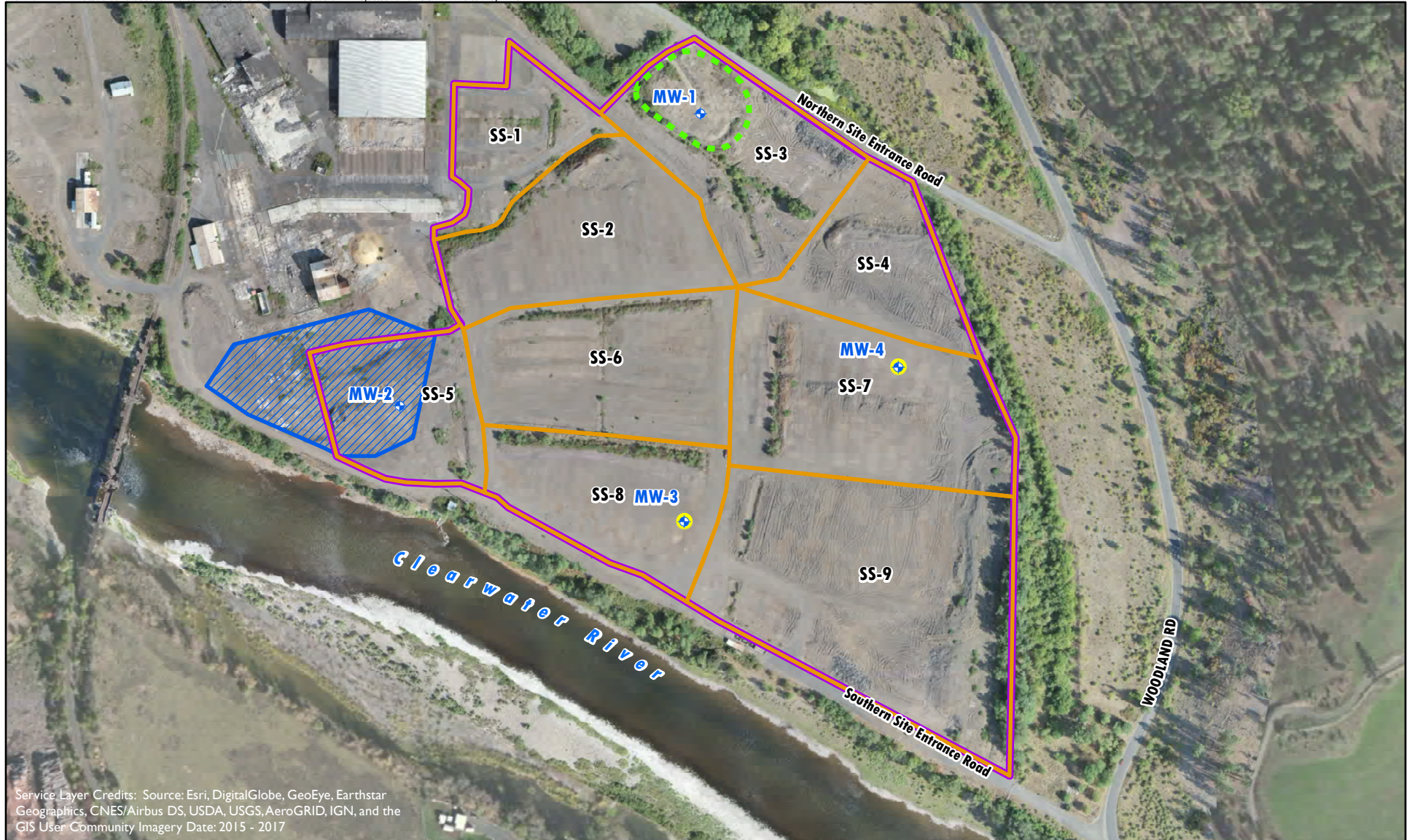
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



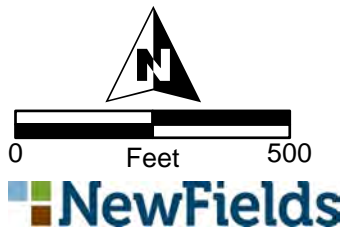
- Towns/Cities
- Nez Perce Indian Reservation
- State Boundaries









Location Map
Former Blue North Mill Site
Nez Perce Indian Reservation
Kamiah, ID
FIGURE 1

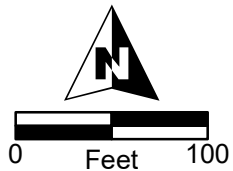
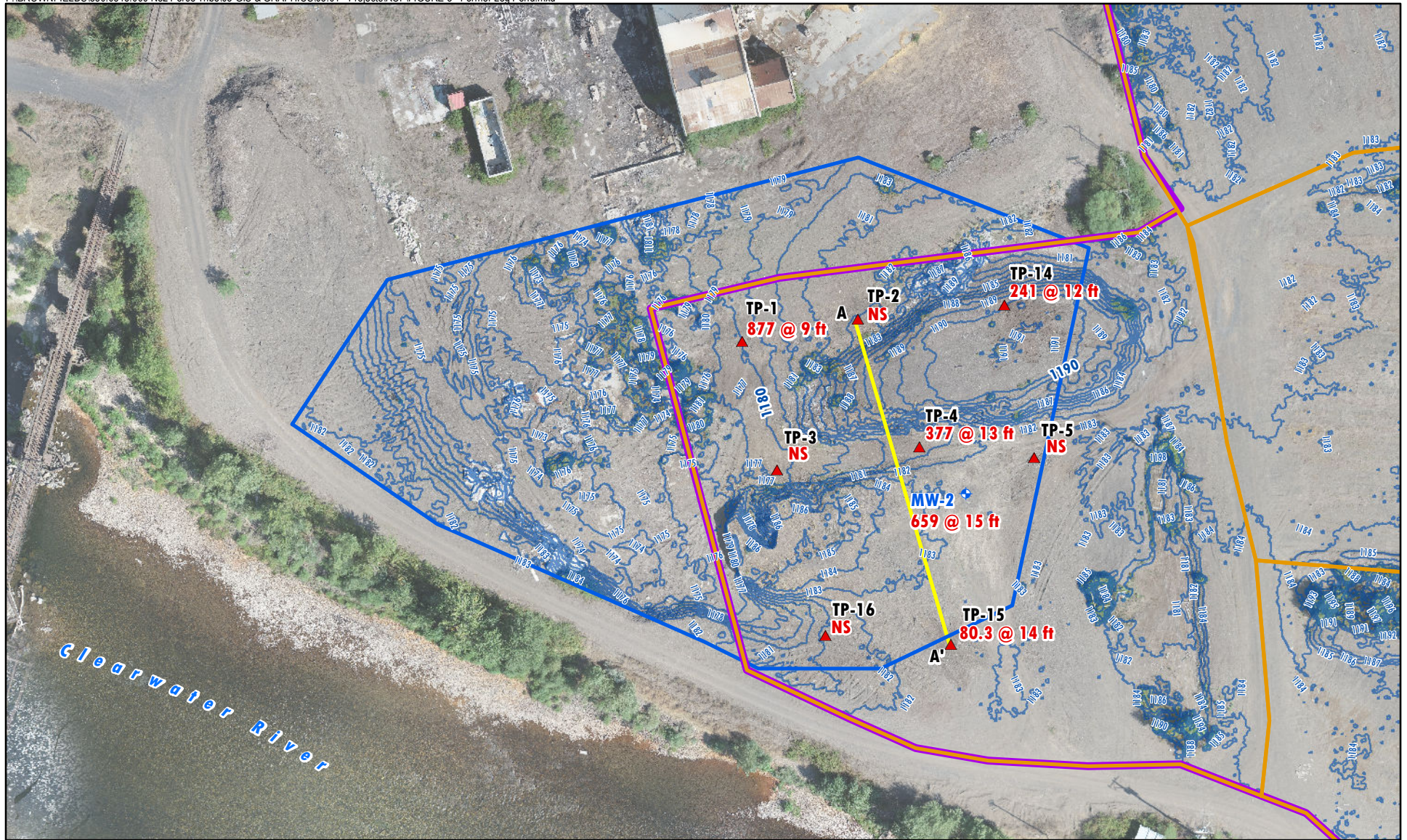


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-  Monitoring Well
-  Aquifer Test
-  Northern Stockpile
-  Surface Soil Discrete Sample
-  Former Log Yard
-  Former Log Pond (Approximate)

Site Map
Log Yard Area - Blue North Mill
Nez Perce Indian Reservation
Kamiah, ID
FIGURE 2

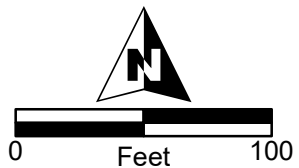
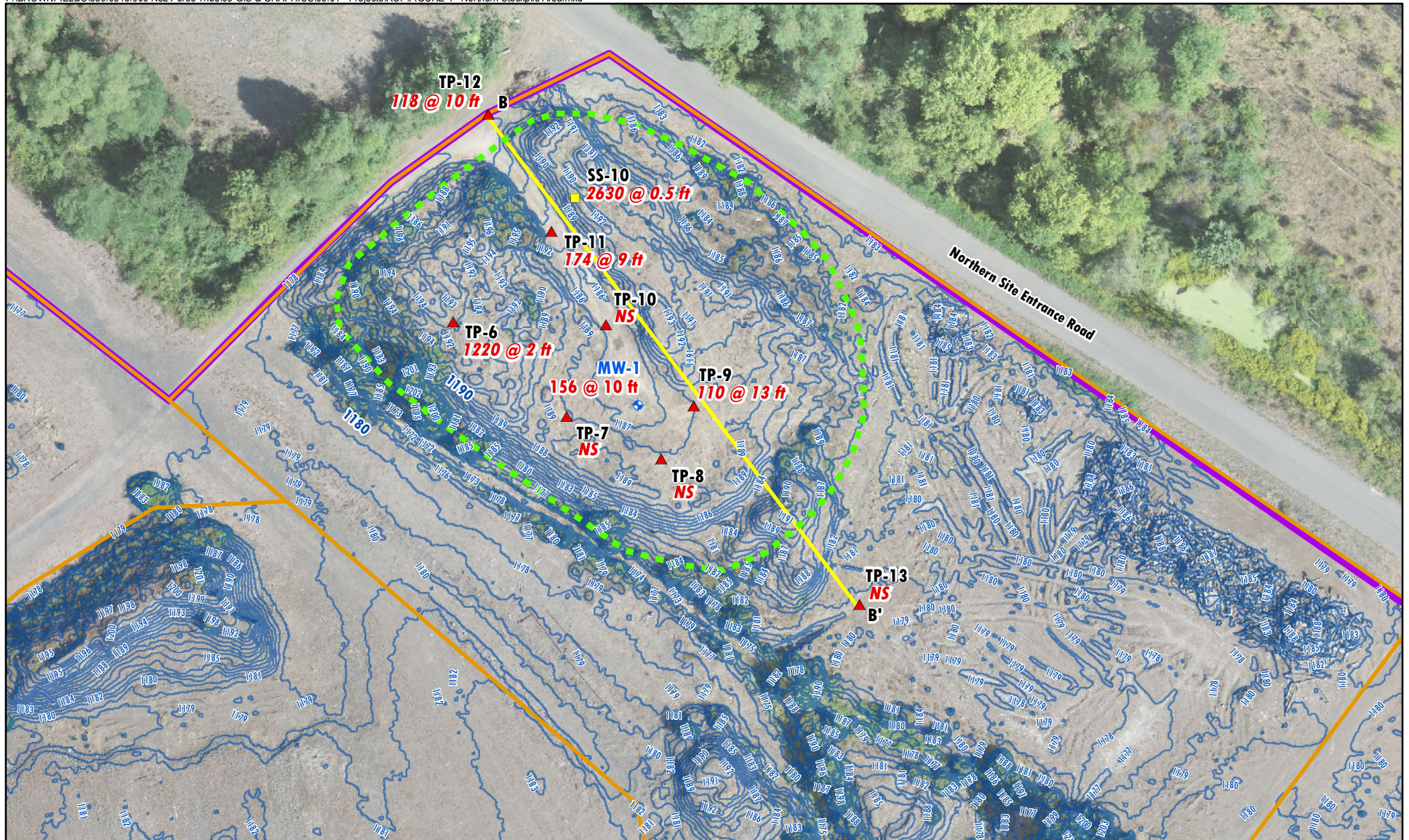


659 TPH - Diesel Range Organics
in Borehole Soil (mg/kg)
NS - Not Sampled

▲ Test Pit Locations
◆ Monitoring Well

□ Surface Soil Sampling Grid Areas
□ Former Log Yard
□ Former Log Pond (Approximate)
— Cross Sections
— Elevation Contours - 1ft

Site Plan Detail, Former Log Pond
Log Yard Area - Blue North Mill
Nez Perce Indian Reservation
Kamiah, ID
FIGURE 3

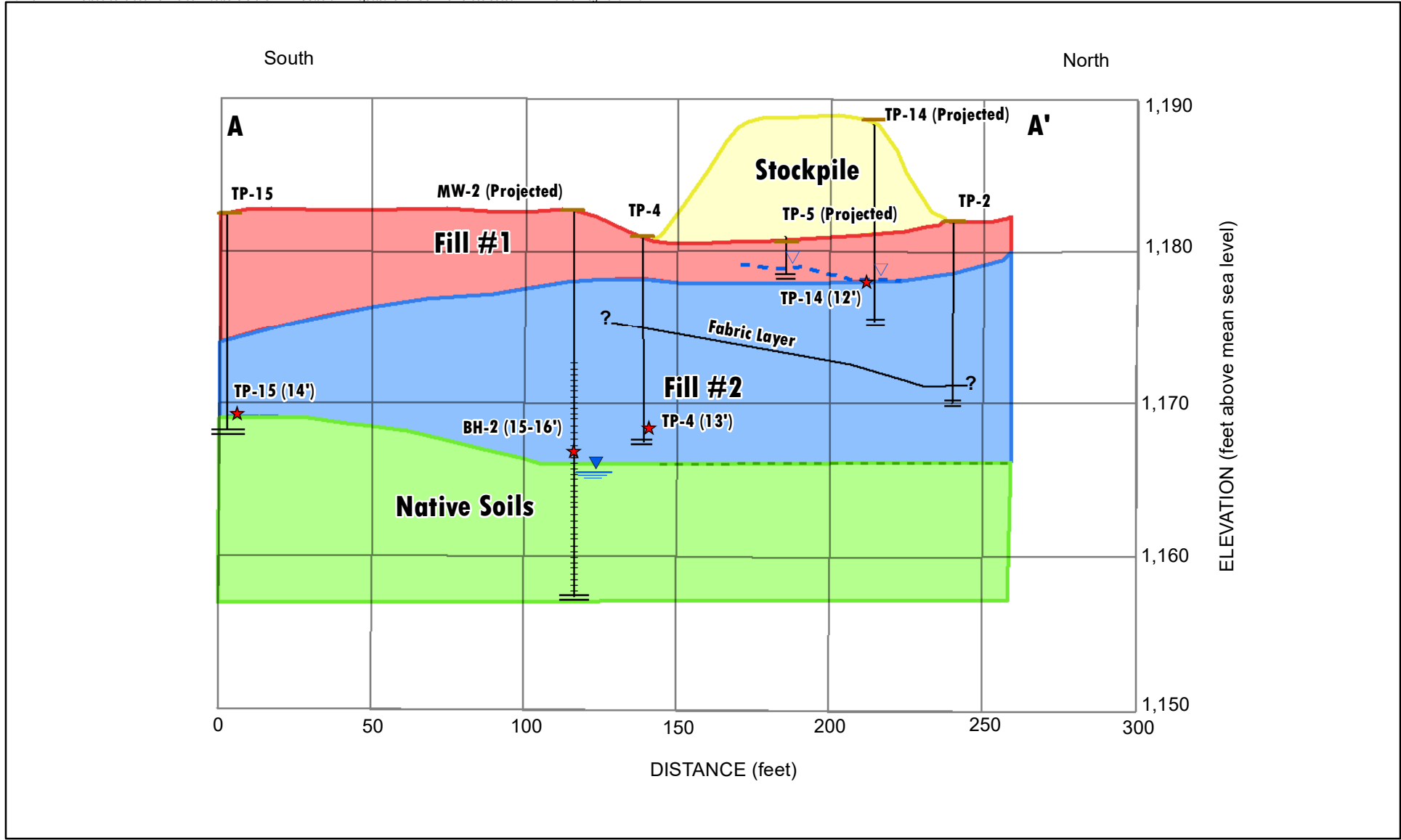


118 Barium in Borehole Soil (mg/kg)
 NS - Not Sampled

- Surface Soil Grab Sample
- ▲ Test Pit Locations
- ◆ Monitoring Well

- Northern Stockpile
- Surface Soil Sampling Grid Areas
- Former Log Yard
- Cross Sections
- Elevation Contours - 1 ft

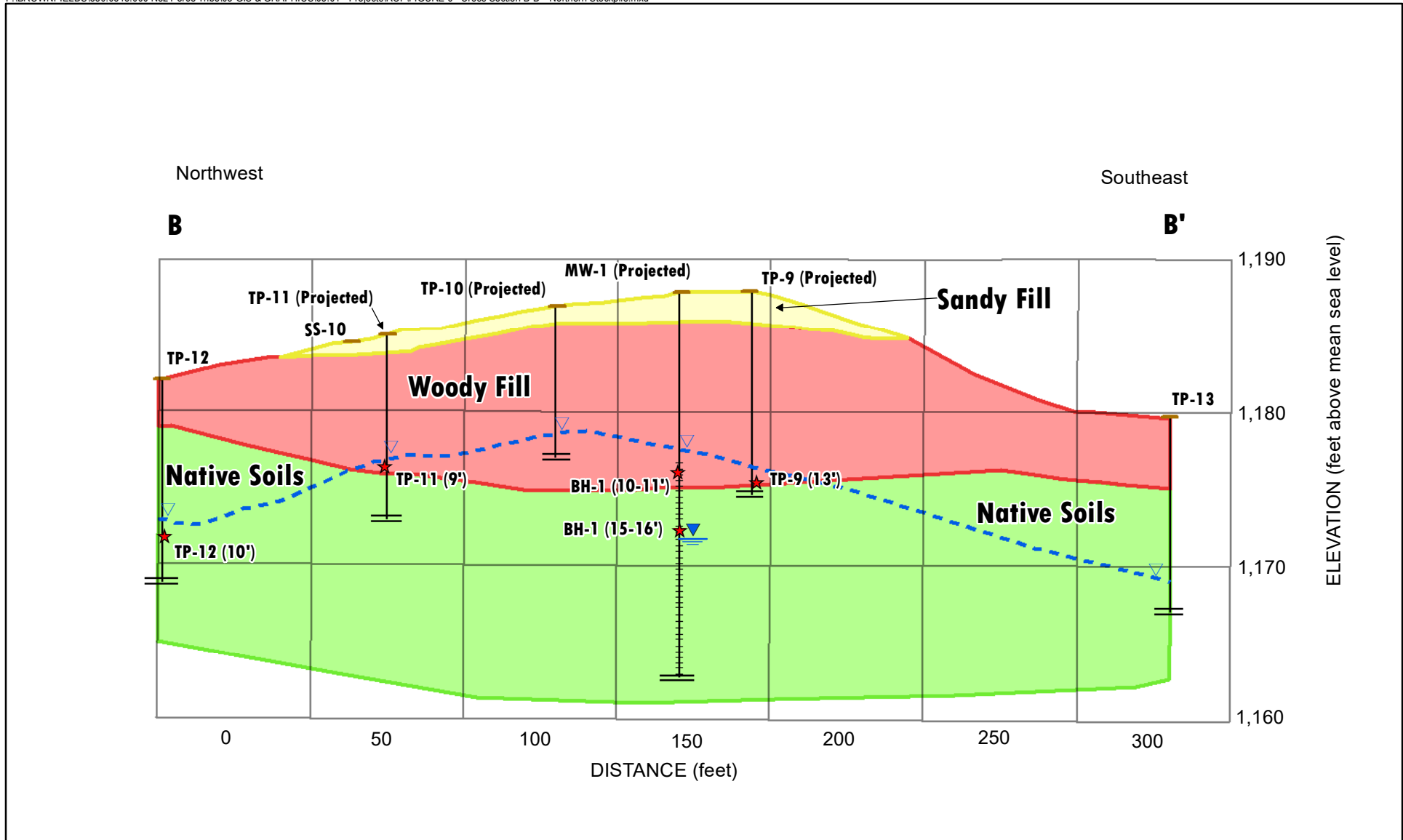
Site Plan Detail, Northern Stockpile Area
 Log Yard Area - Blue North Mill
 Nez Perce Indian Reservation
 Kamiah, ID
FIGURE 4



- Stockpile: Basalt and alluvial cobbles. Wood waste includes logs, strips of bark, and wood chips. Silty sand matrix.
- Fill #1: Basalt cobbles and gravel in silty sand matrix
- Fill #2: Basalt cobbles and gravel in silty sand matrix. Wood waste includes logs, strips of bark, wood chips, and sawdust
- Native Soils: Silty sands with gravel

- Soil Samples Location
- Borehole or Test Pit Location
- Perched Water Table
- Static Water Level
- Bottom of Each Test Pit or Borehole
- Well Screen

**Cross Section A-A', Former Log Pond
Blue North Mill
Nez Perce Indian Reservation
FIGURE 5**



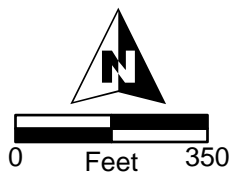
- Sandy Fill: Silty sand with gravel
- Woody Fill: Basalt cobbles and gravel in silty sand matrix. Wood waste includes logs, strips of bark, wood chips, and sawdust
- Native Soils: Sands, silts, and clays

- ★ Soil Samples Location
- Borehole or Test Pit Location
- ▽ Perched Water Table
- ▬ Static Water Level
- Bottom of Each Test Pit or Borehole
- Well Screen

**Cross Section B-B', Northern Stockpile
Blue North Mill
Nez Perce Indian Reservation
FIGURE 6**



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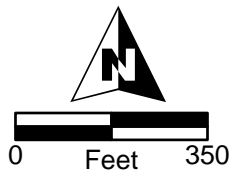
Surface Soil Composite Results:
42 TPH - Diesel Range Organics (mg/kg)
141 Barium (µg/L)

- Northern Stockpile
- Former Log Yard
- Surface Soil Sampling Grid Areas
- Former Log Pond (Approximate)

Surface Soil Results
 Log Yard Area - Blue North Mill
 Nez Perce Indian Reservation
 Kamiah, ID
 FIGURE 7



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Imagery Date: 2015 - 2017



NewFields

Groundwater Sample Results:

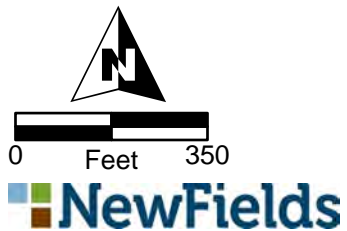
1165.99 Groundwater Surface Elevation
432 TPH - Diesel Range Organics (mg/kg)
145 Barium (µg/L)

- Monitoring Well
- Aquifer Test Location
- 0.2 - Feet
- Northern Stockpile
- Former Log Yard
- Former Log Pond (Approximate)

Groundwater Results and Potentiometric Map #1
 Log Yard Area - Blue North Mill
 Nez Perce Indian Reservation
 Kamiah, ID
FIGURE 8



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Imagery Date: 2015 - 2017



Groundwater Sample Results:
1166.23 Groundwater Surface Elevation
145 Barium (µg/L)

- Monitoring Well
- Aquifer Test Location
- 0.5 - Feet
- Northern Stockpile
- Former Log Yard
- Former Log Pond (Approximate)

Potentiometric Map #2
 Log Yard Area - Blue North Mill
 Nez Perce Indian Reservation
 Kamiah, ID
 FIGURE 9

The image features a landscape photograph of a field with a blue hexagonal pattern overlay on the right side. The field is filled with tall, dry grasses in shades of yellow and brown, with some green patches. In the background, there are rolling hills and a line of trees under a cloudy sky. The blue hexagonal pattern is semi-transparent and covers the right half of the image. At the bottom, there is a red decorative border with a white geometric pattern.

TABLES

**Table 1: Surface Soil Laboratory Results
Blue North Mill, Log Yard Area
Kamiah, ID**

Method	Chemical Name	Screening Level	Basis for Screening Level	Units	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	
					8/18/2021	8/18/2021	8/19/2021	8/18/2021	8/19/2021	8/19/2021	8/19/2021	8/19/2021	8/19/2021	8/19/2021	8/20/2021
					Log Yard	Log Yard	Northern Stockpile Area	Log Yard	Former Log Pond	Log Yard	Log Yard	Log Yard	Log Yard		
RCRA 8 Metals	6010B	Arsenic	4.2	Background	mg/kg	2.59	2.45	3.98	< 2.64	< 2.32	2.68	2.71	< 2.37	3.38	< 10.7
		Barium	15,000	EPA RSL	mg/kg	118	125	906	162	230	144	135	141	162	2630
		Cadmium	71	EPA RSL	mg/kg	< 0.517	< 0.563	0.723	< 0.661	< 0.579	< 0.553	< 0.58	< 0.592	< 0.636	< 2.67
		Chromium	12,000 ^a	EPA RSL	mg/kg	7.45	5.69	10.3	6.01	6.94	5.91	5.67	3.77	5.85	19.4
		Lead	400	EPA RSL	mg/kg	7.85	5.49	7.73	5.84	7.96	6.05	5.03	4.44	6.42	4.12
		Selenium	390	EPA RSL	mg/kg	< 2.07	< 2.25	3.95	< 2.64	< 2.32	< 2.21	2.32	< 2.37	2.85	< 10.7
		Silver	390	EPA RSL	mg/kg	< 1.03	< 1.13	< 1.23	< 1.32	< 1.16	< 1.11	< 1.16	< 1.18	< 1.27	< 5.34
7471A	Mercury	11	EPA RSL	mg/kg	< 0.0413	< 0.0451	< 0.049	< 0.0529	< 0.0463	< 0.0443	< 0.0464	< 0.0473	< 0.0509	< 0.0427	
PCBs	8082	Aroclor-1016	4.1	EPA RSL	mg/kg	< 0.0351	< 0.0383	< 0.0417	< 0.045	< 0.0394	< 0.0376	< 0.0394	< 0.0402	< 0.0433	--
		Aroclor-1221	0.2	EPA RSL	mg/kg	< 0.0351	< 0.0383	< 0.0417	< 0.045	< 0.0394	< 0.0376	< 0.0394	< 0.0402	< 0.0433	--
		Aroclor-1232	0.17	EPA RSL	mg/kg	< 0.0351	< 0.0383	< 0.0417	< 0.045	< 0.0394	< 0.0376	< 0.0394	< 0.0402	< 0.0433	--
		Aroclor-1242	0.23	EPA RSL	mg/kg	< 0.0351	< 0.0383	< 0.0417 UJ	< 0.045	< 0.0394	< 0.0376	< 0.0394	< 0.0402	< 0.0433	--
		Aroclor-1248	0.23	EPA RSL	mg/kg	< 0.0176	< 0.0192	< 0.0208	< 0.0225	< 0.0197	< 0.0188	< 0.0197	< 0.0201	< 0.0216	--
		Aroclor-1254	0.24	EPA RSL	mg/kg	< 0.0176	< 0.0192	< 0.0208	< 0.0225	< 0.0197	< 0.0188	< 0.0197	< 0.0201	< 0.0216	--
		Aroclor-1260	0.24	EPA RSL	mg/kg	< 0.0176	< 0.0192	< 0.0208	< 0.0225	< 0.0197	< 0.0188	< 0.0197	< 0.0201	< 0.0216	--
PAHs	8270C-SIM	1-Methylnaphthalene	18	EPA RSL	mg/kg	< 0.0207	< 0.0225	< 0.0245	< 0.0264	< 0.0232	< 0.0221	< 0.0232	< 0.0237	< 0.0255	--
		2-Chloronaphthalene	4800	EPA RSL	mg/kg	< 0.0207	< 0.0225	< 0.0245	< 0.0264	< 0.0232	0.0263	0.0272	0.0251	0.0261	--
		2-Methylnaphthalene	240	EPA RSL	mg/kg	< 0.0207	< 0.0225	< 0.0245	< 0.0264	< 0.0232	< 0.0221	< 0.0232	< 0.0237	< 0.0255	--
		Acenaphthene	200	GWP	mg/kg	< 0.0062	< 0.00676	< 0.00735	< 0.00793	< 0.00695	< 0.00664	< 0.00696	< 0.0071	< 0.00764	--
		Anthracene	3200	GWP	mg/kg	< 0.0062	< 0.00676	< 0.00735	< 0.00793	< 0.00695	< 0.00664	< 0.00696	< 0.0071	< 0.00764	--
		Benzo(a)anthracene	0.68	GWP	mg/kg	< 0.0062	< 0.00676	< 0.00735	< 0.00793	< 0.00695	< 0.00664	< 0.00696	< 0.0071	< 0.00764	--
		Benzo(a)pyrene	0.14	DC	mg/kg	< 0.0062	< 0.00676	< 0.00735	< 0.00793	< 0.00695	< 0.00664	< 0.00696	< 0.0071	< 0.00764	--
		Benzo(b)fluoranthene	1.4	DC	mg/kg	< 0.0062	< 0.00676	< 0.00735	< 0.00793	< 0.00695	< 0.00664	< 0.00696	< 0.0071	< 0.00764	--
		Benzo(k)fluoranthene	14	DC	mg/kg	< 0.0062	< 0.00676	< 0.00735	< 0.00793	< 0.00695	< 0.00664	< 0.00696	< 0.0071	< 0.00764	--
		Chrysene	69	GWP	mg/kg	< 0.0062	< 0.00676	< 0.00735	< 0.00793	< 0.00695	< 0.00664	< 0.00696	< 0.0071	< 0.00764	--
		Dibenzo(a,h)anthracene	0.11	EPA RSL	mg/kg	< 0.0062	< 0.00676	< 0.00735	< 0.00793	< 0.00695	< 0.00664	< 0.00696	< 0.0071	< 0.00764	--
		Fluoranthene	1400	GWP	mg/kg	< 0.0062	< 0.00676	< 0.00735	< 0.00793	< 0.00695	< 0.00664	< 0.00696	< 0.0071	< 0.00764	--
		Fluorene	240	GWP	mg/kg	< 0.0062	< 0.00676	< 0.00735	< 0.00793	< 0.00695	< 0.00664	< 0.00696	< 0.0071	< 0.00764	--
		Indeno(1,2,3-cd)pyrene	1.1	EPA RSL	mg/kg	< 0.0062	< 0.00676	< 0.00735	< 0.00793	< 0.00695	< 0.00664	< 0.00696	< 0.0071	< 0.00764	--
		Naphthalene	0.12	VI	mg/kg	< 0.0207	< 0.0225	< 0.0245	< 0.0264	< 0.0232	< 0.0221	< 0.0232	< 0.0237	< 0.0255	--
Pyrene	1000	GWP	mg/kg	< 0.0062	< 0.00676	< 0.00735	< 0.00793	< 0.00695	< 0.00664	< 0.00696	< 0.0071	< 0.00764	--		
TPH	NWTPH-Dx	Gasoline Range Organics (C6-C12)	--	--	mg/kg	< 2.67	< 3.13	< 3.63	< 4.11	< 3.29	< 3.03	< 3.3	< 3.42	< 3.86	--
		Diesel Range Organics (C10-C28)	--	--	mg/kg	4.35 J-	31.4 J-	42.3 J-	45.6 J-	36 J-	25.2 J-	50.8 J-	57.8 J-	42 J-	--
		Residual Range Organics (C25-C36)	--	--	mg/kg	35.9	154	168	221	193	89.8	200	258	191	--

Notes:

- bold** Detection
- < Not detected, reporting limit shown.
- underlined Reporting limit exceeds screening level
- Not analyzed, or screening level not available
- mg/kg = milligrams per kilogram
- Background = Background Concentration based on average of two closest soil samples from Shacklette and Boergen (1984)
- EPA RSL = U.S. Environmental Protection Agency Regional Screening Level for residential land use
- VI = Vapor Intrusion screening level from Table 2 in IDEQ (2018)
- DC = Direct Contact screening level from Table 2 in IDEQ (2018)
- GWP = Groundwater Protection screening level from Table 2 in IDEQ (2018)
- a. Screening level is for Chromium III

Methods:

- RCRA 8 Metals = Eight metals regulated under the Resource Conservation and Recovery Act
- PCBs = Polychlorinated Biphenyls
- PAHs = Polycyclic Aromatic Hydrocarbons
- TPH = Total Petroleum Hydrocarbons

**Table 2: Test Pit Laboratory Results
Blue North Mill, Log Yard Area
Kamiah, ID**

Method	Chemical Name	Screening Level	Basis for Screening Level	Units	TP-1 (9')	TP-4 (13')	TP-6 (2')	TP-9 (13')	TP-11 (9')	TP-12 (10')	TP-14 (12')	TP-15 (14')	
					8/18/2021	8/18/2021	8/18/2021	8/18/2021	8/19/2021	8/19/2021	8/19/2021	8/19/2021	
					Former Log Pond	Former Log Pond	Northern Stockpile Area	Northern Stockpile Area	Northern Stockpile Area	Northern Stockpile Area	Former Log Pond	Former Log Pond	
					Fill Material	Fill Material	Fill Material	Native Soil*	Native Soil*	Native Soil*	Fill Material*	Native Soil*	
RCRA 8 Metals	6010B	Arsenic	4.2	Background	mg/kg	< 4.1	< 4.57	< 2.39	< 3.1	< 3.22	< 2.65	< 3.63	< 2.67
		Barium	15,000	EPA RSL	mg/kg	206	86.7	1220	110	174	118	91.3	137
		Cadmium	71	EPA RSL	mg/kg	< 1.02	< 1.14	< 0.597	< 0.774	< 0.806	< 0.663	< 0.907	< 0.668
		Chromium	12,000 ^a	EPA RSL	mg/kg	15.1	5.33	6.14	5.88	15.8	22.7	2.17	6.86
		Lead	400	EPA RSL	mg/kg	8.2	8.21	< 2.98	2.15	6.93	4.03	< 0.907	5.65
		Selenium	390	EPA RSL	mg/kg	< 4.1	< 4.57	< 2.39	< 3.1	< 3.22	< 2.65	< 3.63	< 2.67
		Silver	390	EPA RSL	mg/kg	< 2.05	< 2.29	< 1.19	< 1.55	< 1.61	< 1.33	< 1.81	< 1.34
7471A	Mercury	11	EPA RSL	mg/kg	< 0.0819	< 0.0914	< 0.0477	< 0.0619	< 0.0645	< 0.053	< 0.0726	< 0.0534	
PCBs	8082	Aroclor-1016	4.1	EPA RSL	mg/kg	< 0.139	< 0.155	< 0.0406	--	--	--	< 0.0617	< 0.0908
		Aroclor-1221	0.2	EPA RSL	mg/kg	< 0.139	< 0.155	< 0.0406	--	--	--	< 0.0617	< 0.0908
		Aroclor-1232	0.17	EPA RSL	mg/kg	< 0.139	< 0.155	< 0.0406	--	--	--	< 0.0617	< 0.0908
		Aroclor-1242	0.23	EPA RSL	mg/kg	< 0.139	< 0.155	< 0.0406	--	--	--	< 0.0617	< 0.0908
		Aroclor-1248	0.23	EPA RSL	mg/kg	< 0.0696	< 0.0777	< 0.0203	--	--	--	< 0.0308	< 0.0454
		Aroclor-1254	0.24	EPA RSL	mg/kg	< 0.0696	< 0.0777	< 0.0203	--	--	--	< 0.0308	< 0.0454
		Aroclor-1260	0.24	EPA RSL	mg/kg	< 0.0696 UJ	< 0.0777 UJ	< 0.0203	--	--	--	< 0.0308	< 0.0454 UJ
VOCs**	8260B	1,4-Dichlorobenzene	2.6	EPA RSL	mg/kg	0.0391 J	--	--	--	--	--	--	--
		Acetone	61000	EPA RSL	mg/kg	1.1 J	0.5 J	--	--	--	--	0.884 J	--
		Benzene	0.025	GWP	mg/kg	0.00728 J	--	0.00612 J	--	--	--	--	0.00887 J
		Chloroform	0.32	EPA RSL	mg/kg	--	--	0.0165 J	--	--	--	--	0.00926 J
		Ethylbenzene	0.25	VI	mg/kg	--	0.0348 J	--	--	--	--	0.0777 J	--
		Isopropylbenzene	1900	EPA RSL	mg/kg	--	--	--	--	--	--	0.0196 J	--
		n-Propyl benzene	3800	EPA RSL	mg/kg	--	--	--	--	--	--	0.543 J	--
		Toluene	6.6	GWP	mg/kg	0.648 J	1.17 J	0.0273 J	--	--	--	0.139 J	0.0726 J
Xylenes (Total)	27	VI	mg/kg	--	--	--	--	--	--	0.181 J	--		
PAHs	8270C-SIM	1-Methylnaphthalene	18	EPA RSL	mg/kg	< 0.041	< 0.0457	< 0.0239	--	--	--	< 0.0363	< 0.0267
		2-Chloronaphthalene	4800	EPA RSL	mg/kg	< 0.041	< 0.0457	< 0.0239	--	--	--	0.0406	< 0.0267
		2-Methylnaphthalene	240	EPA RSL	mg/kg	< 0.041	< 0.0457	< 0.0239	--	--	--	< 0.0363	0.0303
		Acenaphthene	200	GWP	mg/kg	< 0.0123	< 0.0137	< 0.00716	--	--	--	< 0.0109	< 0.00801
		Anthracene	3200	GWP	mg/kg	< 0.0123	< 0.0137	< 0.00716	--	--	--	< 0.0109	< 0.00801
		Benzo(a)anthracene	0.68	GWP	mg/kg	< 0.0123	< 0.0137	< 0.00716	--	--	--	< 0.0109	< 0.00801
		Benzo(a)pyrene	0.14	DC	mg/kg	< 0.0123	< 0.0137	< 0.00716	--	--	--	< 0.0109	< 0.00801
		Benzo(b)fluoranthene	1.4	DC	mg/kg	< 0.0123	< 0.0137	< 0.00716	--	--	--	< 0.0109	< 0.00801
		Benzo(k)fluoranthene	14	DC	mg/kg	< 0.0123	< 0.0137	< 0.00716	--	--	--	< 0.0109	< 0.00801
		Chrysene	69	GWP	mg/kg	< 0.0123	< 0.0137	< 0.00716	--	--	--	< 0.0109	< 0.00801
		Dibenzo(a,h)anthracene	0.11	EPA RSL	mg/kg	< 0.0123	< 0.0137	< 0.00716	--	--	--	< 0.0109	< 0.00801
		Fluoranthene	1400	GWP	mg/kg	0.0136	< 0.0137	< 0.00716	--	--	--	< 0.0109	0.0132
		Fluorene	240	GWP	mg/kg	0.016	< 0.0137	< 0.00716	--	--	--	< 0.0109	< 0.00801
		Indeno(1,2,3-cd)pyrene	1.1	EPA RSL	mg/kg	< 0.0123	< 0.0137	< 0.00716	--	--	--	< 0.0109	< 0.00801
Naphthalene	0.12	VI	mg/kg	0.0528	< 0.0457	< 0.0239	--	--	--	< 0.0363	0.0417		

**Table 2: Test Pit Laboratory Results
Blue North Mill, Log Yard Area
Kamiah, ID**

Method	Chemical Name	Screening Level	Basis for Screening Level	Units	TP-1 (9')	TP-4 (13')	TP-6 (2')	TP-9 (13')	TP-11 (9')	TP-12 (10')	TP-14 (12')	TP-15 (14')
					8/18/2021	8/18/2021	8/18/2021	8/18/2021	8/19/2021	8/19/2021	8/19/2021	8/19/2021
					Former Log Pond	Former Log Pond	Northern Stockpile Area	Northern Stockpile Area	Northern Stockpile Area	Northern Stockpile Area	Former Log Pond	Former Log Pond
					Fill Material	Fill Material	Fill Material	Native Soil*	Native Soil*	Native Soil*	Fill Material*	Native Soil*
	Pyrene	1000	GWP	mg/kg	0.0287	0.0226	< 0.00716	--	--	--	< 0.0109	0.0232
TPH	Gasoline Range Organics (C6-C12)	--	--	mg/kg	20.8	15.6	< 8.3	--	--	--	557	< 6.45
	Diesel Range Organics (C10-C28)	--	--	mg/kg	877 J-	377 J-	22.4 J-	--	--	--	241 J-	80.3 J-
	Residual Range Organics (C25-C36)	--	--	mg/kg	1930	665	47.5	--	--	--	243	242

Notes:

bold Detection

< Not detected, reporting limit shown.

ND Not detected above method detection limit. Results were rejected.

underlined Reporting limit exceeds screening level

-- Not analyzed, or screening level not available

For EPA Method 8260 (VOCs) only detections are shown.

Background = Background Concentration based on average of two closest soil samples from Shacklette and Boerngen (1984)

EPA RSL = U.S. Environmental Protection Agency Regional Screening Level for residential land use

VI = Vapor Intrusion screening level from Table 2 in IDEQ (2018)

DC = Direct Contact screening level from Table 2 in IDEQ (2018)

GWP = Groundwater Protection screening level from Table 2 in IDEQ (2018)

a. Screening level is for Chromium III

* Sample collected from the groundwater interface

** For VOCs, only detected chemicals are shown.

Methods:

RCRA 8 Metals = Eight metals regulated under the Resource Conservation and Recovery Act

PCBs = Polychlorinated Biphenyls

VOCs = Volatile Organic Compounds

PAHs = Polycyclic Aromatic Hydrocarbons

TPH = Total Petroleum Hydrocarbons

**Table 3: Borehole Soil Laboratory Results
Blue North Mill, Log Yard Area
Kamiah, ID**

Method	Chemical Name	Screening Level	Basis for Screening Level	Units	BH-1 (10-11')	BH-1 (15-16')	BH-2 (15-16')	BH-3 (8-9')	BH-3 (18-19')	BH-4 (8-9')	BH-4 (25')	
					8/30/2021	8/30/2021	8/30/2021	8/30/2021	8/30/2021	8/30/2021		
					Northern Stockpile Area	Northern Stockpile Area	Former Log Pond	Log Yard	Log Yard	Log Yard		
					Fill	Native Soil*	Fill*	Native Soil	Native Soil*	Native Soil		
RCRA 8 Metals	6010B	Arsenic	4.2	Background	mg/kg	< 3.42	< 2.42	< 2.47	< 2.2	< 2.47	< 2.22	< 2.02
		Barium	15,000	EPA RSL	mg/kg	156	84.6	131	105	45.8	75.2	21.5
		Cadmium	71	EPA RSL	mg/kg	< 0.855	< 0.605	< 0.617	< 0.549	< 0.616	< 0.554	< 0.506
		Chromium	12,000 ^a	EPA RSL	mg/kg	9.72	17.3	13.9	17.1	8.41	13.1	4.67
		Lead	400	EPA RSL	mg/kg	5.58	3.7	4.79	3.5	2.13	3.07	0.973
		Selenium	390	EPA RSL	mg/kg	< 3.42	< 2.42	< 2.47	< 2.2	< 2.47	< 2.22	< 2.02
		Silver	390	EPA RSL	mg/kg	< 1.71	< 1.21	< 1.23	< 1.1	< 1.23	< 1.11	< 1.01
	7471A	Mercury	11	EPA RSL	mg/kg	< 0.0684	< 0.0484	< 0.0494	< 0.044	< 0.0493	< 0.0443	< 0.0405
PCBs	8082	Aroclor-1016	4.1	EPA RSL	mg/kg	< 0.0581	< 0.0411	< 0.042	< 0.0374	< 0.0419	< 0.0377	< 0.0344
		Aroclor-1221	0.2	EPA RSL	mg/kg	< 0.0581	< 0.0411	< 0.042	< 0.0374	< 0.0419	< 0.0377	< 0.0344
		Aroclor-1232	0.17	EPA RSL	mg/kg	< 0.0581	< 0.0411	< 0.042	< 0.0374	< 0.0419	< 0.0377	< 0.0344
		Aroclor-1242	0.23	EPA RSL	mg/kg	< 0.0581	< 0.0411	< 0.042	< 0.0374	< 0.0419	< 0.0377	< 0.0344
		Aroclor-1248	0.23	EPA RSL	mg/kg	< 0.0291	< 0.0206	< 0.021	< 0.0187	< 0.021	< 0.0188	< 0.0172
		Aroclor-1254	0.24	EPA RSL	mg/kg	< 0.0291	< 0.0206	< 0.021	< 0.0187	< 0.021	< 0.0188	< 0.0172
		Aroclor-1260	0.24	EPA RSL	mg/kg	< 0.0291	< 0.0206	< 0.021	< 0.0187	< 0.021	< 0.0188	< 0.0172
VOCs	8260B	1,1,1,2-Tetrachloroethane	2	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		1,1,1-Trichloroethane	8100	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		1,1,2,2-Tetrachloroethane	0.6	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		1,1,2-Trichloroethane	1.1	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		1,1-Dichloroethane	3.6	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		1,1-Dichloroethene	230	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		1,2,3-Trichlorobenzene	63	EPA RSL	mg/kg	--	< 0.0353	< 0.0312	< 0.023	< 0.0308	< 0.0253	< 0.0199
		1,2,3-Trichloropropane	0.0051	EPA RSL	mg/kg	--	< 0.0353	< 0.0312	< 0.023	< 0.0308	< 0.0253	< 0.0199
		1,2,3-Trimethylbenzene	340	EPA RSL	mg/kg	--	< 0.0141	< 0.0125	< 0.00917	< 0.0123	< 0.0101	< 0.00795
		1,2,4-Trichlorobenzene	24	EPA RSL	mg/kg	--	< 0.0353	< 0.0312	< 0.023	< 0.0308	< 0.0253	< 0.0199
		1,2,4-Trimethylbenzene	300	EPA RSL	mg/kg	--	< 0.0141	< 0.0125	< 0.00917	< 0.0123	< 0.0101	< 0.00795
		1,2-Dibromo-3-chloropropane	0.0053	EPA RSL	mg/kg	--	< 0.0706	< 0.0624	< 0.0459	< 0.0617	< 0.0507	< 0.0397
		1,2-Dichlorobenzene	1800	EPA RSL	mg/kg	--	< 0.0141	< 0.0125	< 0.00917	< 0.0123	< 0.0101	< 0.00795
		1,2-Dichloroethane	0.013	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		1,2-Dichloropropane	2.5	EPA RSL	mg/kg	--	< 0.0141	< 0.0125	< 0.00917	< 0.0123	< 0.0101	< 0.00795
		1,3,5-Trimethylbenzene	270	EPA RSL	mg/kg	--	< 0.0141	< 0.0125	< 0.00917	< 0.0123	< 0.0101	< 0.00795
		1,3-Dichloropropane	1600	EPA RSL	mg/kg	--	< 0.0141	< 0.0125	< 0.00917	< 0.0123	< 0.0101	< 0.00795
		1,4-Dichlorobenzene	2.6	EPA RSL	mg/kg	--	< 0.0141	< 0.0125	< 0.00917	< 0.0123	< 0.0101	< 0.00795
		Acetone	61000	EPA RSL	mg/kg	--	< 0.141	0.405	< 0.0917	< 0.123	< 0.101	< 0.0795
		Acrylonitrile	0.25	EPA RSL	mg/kg	--	< 0.0353	< 0.0312	< 0.023	< 0.0308	< 0.0253	< 0.0199
		Benzene	0.025	GWP	mg/kg	--	< 0.00282	< 0.00249	< 0.00183	< 0.00246	< 0.00203	< 0.00159
		Bromobenzene	290	EPA RSL	mg/kg	--	< 0.0353	< 0.0312	< 0.023	< 0.0308	< 0.0253	< 0.0199
		Bromoform	19	EPA RSL	mg/kg	--	< 0.0706	< 0.0624	< 0.0459	< 0.0617	< 0.0507	< 0.0397
Bromomethane	6.8	EPA RSL	mg/kg	--	< 0.0353	< 0.0312	< 0.023	< 0.0308	< 0.0253	< 0.0199		
	Carbon tetrachloride	0.65	EPA RSL	mg/kg	--	< 0.0141	< 0.0125	< 0.00917	< 0.0123	< 0.0101	< 0.00795	

**Table 3: Borehole Soil Laboratory Results
Blue North Mill, Log Yard Area
Kamiah, ID**

Method	Chemical Name	Screening Level	Basis for Screening Level	Units	BH-1 (10-11')	BH-1 (15-16')	BH-2 (15-16')	BH-3 (8-9')	BH-3 (18-19')	BH-4 (8-9')	BH-4 (25')	
					8/30/2021	8/30/2021	8/30/2021	8/30/2021	8/30/2021	8/30/2021		
					Northern Stockpile Area	Northern Stockpile Area	Former Log Pond	Log Yard	Log Yard	Log Yard		
					Fill	Native Soil*	Fill*	Native Soil	Native Soil*	Native Soil		
VOCs	8260B	Chlorobenzene	280	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		Chloroethane	14000	EPA RSL	mg/kg	--	< 0.0141	< 0.0125	< 0.00917	< 0.0123	< 0.0101	< 0.00795
		Chloroform	0.32	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		Chloromethane	110	EPA RSL	mg/kg	--	< 0.0353	< 0.0312	< 0.023	< 0.0308	< 0.0253	< 0.0199
		cis-1,2-Dichloroethylene	160	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		Dibromochloromethane	8.3	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		Dichlorobromomethane	0.29	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		Dichlorodifluoromethane	87	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		Diisopropyl ether	2200	EPA RSL	mg/kg	--	< 0.00282	< 0.00249	< 0.00183	< 0.00246	< 0.00203	< 0.00159
		Ethylbenzene	0.25	VI	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		Hexachlorobutadiene	1.2	EPA RSL	mg/kg	--	< 0.0706	< 0.0624	< 0.0459	< 0.0617	< 0.0507	< 0.0397
		Isopropylbenzene	1900	EPA RSL	mg/kg	--	< 0.00706	0.00692	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		Methyl ethyl ketone	27000	EPA RSL	mg/kg	--	< 0.282	< 0.249	< 0.183	< 0.246	< 0.203	< 0.159
		Methyl isobutyl ketone	33000	EPA RSL	mg/kg	--	< 0.0706	< 0.0624	< 0.0459	< 0.0617	< 0.0507	< 0.0397
		Methylene bromide	24	EPA RSL	mg/kg	--	< 0.0141	< 0.0125	< 0.00917	< 0.0123	< 0.0101	< 0.00795
		Methylene chloride	57	EPA RSL	mg/kg	--	< 0.0706	< 0.0624	< 0.0459	< 0.0617	< 0.0507	< 0.0397
		Methyl-tert-butyl ether	0.08	GWP	mg/kg	--	< 0.00282	< 0.00249	< 0.00183	< 0.00246	< 0.00203	< 0.00159
		Naphthalene	0.12	VI	mg/kg	--	< 0.0353	< 0.0312	< 0.023	< 0.0308	< 0.0253	< 0.0199
		n-Butyl benzene	3900	EPA RSL	mg/kg	--	< 0.0353	< 0.0312	< 0.023	< 0.0308	< 0.0253	< 0.0199
		n-Propyl benzene	3800	EPA RSL	mg/kg	--	< 0.0141	< 0.0125	< 0.00917	< 0.0123	< 0.0101	< 0.00795
		o-Chlorotoluene	1600	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		p-Chlorotoluene	1600	EPA RSL	mg/kg	--	< 0.0141	< 0.0125	< 0.00917	< 0.0123	< 0.0101	< 0.00795
		sec-Butyl benzene	7800	EPA RSL	mg/kg	--	< 0.0353	< 0.0312	< 0.023	< 0.0308	< 0.0253	< 0.0199
		Styrene	6000	EPA RSL	mg/kg	--	< 0.0353	< 0.0312	< 0.023	< 0.0308	< 0.0253	< 0.0199
		tert-Butyl benzene	7800	EPA RSL	mg/kg	--	< 0.0141	< 0.0125	< 0.00917	< 0.0123	< 0.0101	< 0.00795
		Tetrachloroethylene	24	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
		Toluene	6.6	GWP	mg/kg	--	< 0.0141	0.485	< 0.00917	< 0.0123	< 0.0101	< 0.00795
		trans-1,2-Dichloroethylene	70	EPA RSL	mg/kg	--	< 0.0141	< 0.0125	< 0.00917	< 0.0123	< 0.0101	< 0.00795
		Trichloroethylene	0.94	EPA RSL	mg/kg	--	< 0.00282	< 0.00249	< 0.00183	< 0.00246	< 0.00203	< 0.00159
		Trichlorofluoromethane	23000	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397
Trichlorotrifluoroethane	6700	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397		
Vinyl chloride	0.059	EPA RSL	mg/kg	--	< 0.00706	< 0.00624	< 0.00459	< 0.00617	< 0.00507	< 0.00397		
Xylenes (Total)	27	VI	mg/kg	--	< 0.0183	< 0.0162	< 0.012	< 0.0161	< 0.0131	< 0.0103		

**Table 3: Borehole Soil Laboratory Results
Blue North Mill, Log Yard Area
Kamiah, ID**

Method	Chemical Name	Screening Level	Basis for Screening Level	Units	BH-1 (10-11')	BH-1 (15-16')	BH-2 (15-16')	BH-3 (8-9')	BH-3 (18-19')	BH-4 (8-9')	BH-4 (25')	
					8/30/2021	8/30/2021	8/30/2021	8/30/2021	8/30/2021	8/30/2021	8/30/2021	
					Northern Stockpile Area	Northern Stockpile Area	Former Log Pond	Log Yard	Log Yard	Log Yard	Log Yard	
					Fill	Native Soil*	Fill*	Native Soil	Native Soil*	Native Soil	Native Soil*	
PAHs	8270C-SIM	1-Methylnaphthalene	18	EPA RSL	mg/kg	< 0.0342	< 0.0242	< 0.0247	< 0.022	< 0.0247	< 0.0222	< 0.0202
		2-Chloronaphthalene	4800	EPA RSL	mg/kg	< 0.0342	< 0.0242	< 0.0247	< 0.022	< 0.0247	< 0.0222	< 0.0202
		2-Methylnaphthalene	240	EPA RSL	mg/kg	< 0.0342	< 0.0242	< 0.0247	< 0.022	< 0.0247	< 0.0222	< 0.0202
		Acenaphthene	200	GWP	mg/kg	< 0.0103	< 0.00726	< 0.00741	< 0.00659	< 0.0074	< 0.00665	< 0.00607
		Anthracene	3200	GWP	mg/kg	< 0.0103	< 0.00726	0.236	< 0.00659	< 0.0074	< 0.00665	< 0.00607
		Benzo(a)anthracene	0.68	GWP	mg/kg	< 0.0103	< 0.00726	< 0.00741	< 0.00659	< 0.0074	< 0.00665	< 0.00607
		Benzo(a)pyrene	0.14	DC	mg/kg	< 0.0103	< 0.00726	< 0.00741	< 0.00659	< 0.0074	< 0.00665	< 0.00607
		Benzo(b)fluoranthene	1.4	DC	mg/kg	< 0.0103	< 0.00726	< 0.00741	< 0.00659	< 0.0074	< 0.00665	< 0.00607
		Benzo(k)fluoranthene	14	DC	mg/kg	< 0.0103	< 0.00726	< 0.00741	< 0.00659	< 0.0074	< 0.00665	< 0.00607
		Chrysene	69	GWP	mg/kg	< 0.0103	< 0.00726	< 0.00741	< 0.00659	< 0.0074	< 0.00665	< 0.00607
		Dibenzo(a,h)anthracene	0.11	EPA RSL	mg/kg	< 0.0103	< 0.00726	< 0.00741	< 0.00659	< 0.0074	< 0.00665	< 0.00607
		Fluoranthene	1400	GWP	mg/kg	0.0174	< 0.00726	0.0117	< 0.00659	< 0.0074	< 0.00665	< 0.00607
		Fluorene	240	GWP	mg/kg	0.0141	< 0.00726	0.00899	< 0.00659	< 0.0074	< 0.00665	< 0.00607
		Indeno(1,2,3-cd)pyrene	1.1	EPA RSL	mg/kg	< 0.0103	< 0.00726	< 0.00741	< 0.00659	< 0.0074	< 0.00665	< 0.00607
Naphthalene	0.12	VI	mg/kg	< 0.0342	< 0.0242	< 0.0247	< 0.022	< 0.0247	< 0.0222	< 0.0202		
Pyrene	1000	GWP	mg/kg	0.0165	< 0.00726	0.0185	< 0.00659	< 0.0074	< 0.00665	< 0.00607		
TPH	NWTPH-Dx	Gasoline Range Organics (C6-C12)	--	--	mg/kg	--	< 7.06	14.9	< 4.59	< 6.17	< 5.07	< 3.97
		Diesel Range Organics (C10-C28)	--	--	mg/kg	638	< 4.84	659	< 4.4	< 4.93	< 4.43	< 4.05
		Residual Range Organics (C25-C36)	--	--	mg/kg	1330	< 12.1	825	< 11	< 12.3	< 11.1	< 10.1

Notes:

- bold** Detection
- < Not detected, reporting limit shown.
- underlined Reporting limit exceeds screening level
- Not analyzed, or screening level not available
- Background = Background Concentration based on average of two closest soil samples from Shacklette and Boerngen (1984)
- EPA RSL = U.S. Environmental Protection Agency Regional Screening Level for residential land use
- VI = Vapor Intrusion screening level from Table 2 in IDEQ (2018)
- DC = Direct Contact screening level from Table 2 in IDEQ (2018)
- GWP = Groundwater Protection screening level from Table 2 in IDEQ (2018)
 - a. Screening level is for Chromium III
 - * Sample collected from the groundwater interface

Methods:

- RCRA 8 Metals = Eight metals regulated under the Resource Conservation and Recovery Act
- PCBs = Polychlorinated Biphenyls
- VOCs = Volatile Organic Compounds
- PAHs = Polycyclic Aromatic Hydrocarbons
- TPH = Total Petroleum Hydrocarbons

**Table 4: Groundwater Laboratory Results
Blue North Mill, Log Yard Area
Kamiah, ID**

Method	Analyte	Screening Level	Basis for Screening Level	Units	MW-1	MW-2	MW-3	MW-4	
					9/2/2021	9/2/2021	9/1/2021	9/1/2021	
					Northern Stockpile Area	Former Log Pond	Log Yard	Log Yard	
RCRA 8 Metals	6020	Arsenic	50	ID REM	µg/L	5.89	4.24	<u>< 2</u>	<u>< 2</u>
		Barium	2000	ID REM	µg/L	257	354	145	93.3
		Cadmium	5	ID REM	µg/L	< 1	< 1	< 1	< 1
		Chromium	100	ID REM	µg/L	2.23	2.04	< 2	< 2
		Lead	15	ID REM	µg/L	< 2	< 2	< 2	< 2
		Selenium	50	ID REM	µg/L	< 2	< 2	< 2	< 2
		Silver	100	ID REM	µg/L	< 2	< 2	< 2	< 2
	7470A	Mercury	2	ID REM	µg/L	< 0.2	< 0.2	< 0.2	< 0.2
PCBs	8082	Aroclor-1016	<u>0.22</u>	EPA RSL	µg/L	<u>< 0.58</u>	<u>< 0.5</u>	<u>< 0.52</u>	<u>< 0.5</u>
		Aroclor-1221	<u>0.0047</u>	EPA RSL	µg/L	<u>< 0.58</u>	<u>< 0.5</u>	<u>< 0.52</u>	<u>< 0.5</u>
		Aroclor-1232	<u>0.0047</u>	EPA RSL	µg/L	<u>< 0.58</u>	<u>< 0.5</u>	<u>< 0.52</u>	<u>< 0.5</u>
		Aroclor-1242	<u>0.0078</u>	EPA RSL	µg/L	<u>< 0.58</u>	<u>< 0.5</u>	<u>< 0.52</u>	<u>< 0.5</u>
		Aroclor-1248	<u>0.0078</u>	EPA RSL	µg/L	<u>< 0.58</u>	<u>< 0.5</u>	<u>< 0.52</u>	<u>< 0.5</u>
		Aroclor-1254	<u>0.0078</u>	EPA RSL	µg/L	<u>< 0.58</u>	<u>< 0.5</u>	<u>< 0.52</u>	<u>< 0.5</u>
		Aroclor-1260	<u>0.0078</u>	EPA RSL	µg/L	<u>< 0.58</u>	<u>< 0.5</u>	<u>< 0.52</u>	<u>< 0.5</u>
VOCs	8011	1,2-Dibromo-3-chloropropane	<u>0.2</u>	ID REM	µg/L	<u>< 0.02</u>	<u>< 0.02</u>	<u>< 0.02</u>	<u>< 0.02</u>
		1,2-Dibromoethane	0.05	ID RBCA	µg/L	<u>< 0.02</u>	<u>< 0.02</u>	<u>< 0.02</u>	<u>< 0.02</u>
	8260B	1,1,1,2-Tetrachloroethane	<u>0.57</u>	EPA RSL	µg/L	<u>< 1</u>	<u>< 5</u>	<u>< 1</u>	<u>< 1</u>
		1,1,1-Trichloroethane	200	ID REM	µg/L	< 1	< 5	< 1	< 1
		1,1,2,2-Tetrachloroethane	<u>0.076</u>	EPA RSL	µg/L	<u>< 1</u>	<u>< 5</u>	<u>< 1</u>	<u>< 1</u>
		1,1,2-Trichloroethane	5	ID REM	µg/L	<u>< 1</u>	<u>< 5</u>	<u>< 1</u>	<u>< 1</u>
		1,1-Dichloroethane	<u>2.8</u>	EPA RSL	µg/L	< 1	<u>< 5</u>	< 1	< 1
		1,1-Dichloroethene	7	ID REM	µg/L	< 1	< 5	< 1	< 1
		1,2,3-Trichlorobenzene	7	EPA RSL	µg/L	< 1	< 5	< 1	< 1
		1,2,3-Trichloropropane	<u>0.00075</u>	EPA RSL	µg/L	<u>< 2.5</u>	<u>< 12.5</u>	<u>< 2.5</u>	<u>< 2.5</u>
		1,2,3-Trimethylbenzene	55	EPA RSL	µg/L	< 1	< 5	< 1	< 1
		1,2,4-Trichlorobenzene	70	ID REM	µg/L	< 1	<u>< 5</u>	< 1	< 1
		1,2,4-Trimethylbenzene	56	EPA RSL	µg/L	< 1	< 5	< 1	< 1

**Table 4: Groundwater Laboratory Results
Blue North Mill, Log Yard Area
Kamiah, ID**

Method	Analyte	Screening Level	Basis for Screening Level	Units	MW-1	MW-2	MW-3	MW-4	
					9/2/2021	9/2/2021	9/1/2021	9/1/2021	
					Northern Stockpile Area	Former Log Pond	Log Yard	Log Yard	
VOCs	8260B	1,2-Dibromo-3-chloropropane	0.2	ID REM	µg/L	< 5	< 25	< 5	< 5
		1,2-Dibromoethane	0.05	ID RBCA	µg/L	< 1	< 5	< 1	< 1
		1,2-Dichlorobenzene	600	ID REM	µg/L	< 1	< 5	< 1	< 1
		1,2-Dichloroethane	5	ID RBCA	µg/L	< 1	< 5	< 1	< 1
		1,2-Dichloropropane	5	ID REM	µg/L	< 1	< 5	< 1	< 1
		1,3,5-Trimethylbenzene	60	EPA RSL	µg/L	< 1	< 5	< 1	< 1
		1,3-Dichloropropane	370	EPA RSL	µg/L	< 1	< 5	< 1	< 1
		1,4-Dichlorobenzene	75	ID REM	µg/L	< 1	< 5	< 1	< 1
		Acetone	14000	EPA RSL	µg/L	< 50	< 250	< 50	< 50
		Acrolein	0.042	EPA RSL	µg/L	< 50	< 250	< 50	< 50
		Acrylonitrile	0.052	EPA RSL	µg/L	< 10	< 50	< 10	< 10
		Benzene	5	ID RBCA	µg/L	< 1	< 5	< 1	< 1
		Bromobenzene	62	EPA RSL	µg/L	< 1	< 5	< 1	< 1
		Bromoform	100	ID REM	µg/L	< 1	< 5	< 1	< 1
		Bromomethane	7.5	EPA RSL	µg/L	< 5	< 25	< 5	< 5
		Carbon tetrachloride	5	ID REM	µg/L	< 1	< 5	< 1	< 1
		Chlorobenzene	100	ID REM	µg/L	< 1	< 5	< 1	< 1
		Chloroethane	21000	EPA RSL	µg/L	< 5	< 25	< 5	< 5
		Chloroform	2	ID REM	µg/L	< 5	< 25	< 5	< 5
		Chloromethane	190	EPA RSL	µg/L	< 2.5	< 12.5	< 2.5	< 2.5
		cis-1,2-Dichloroethylene	70	ID REM	µg/L	< 1	< 5	< 1	< 1
		Dibromochloromethane	100	ID REM	µg/L	< 1	< 5	< 1	< 1
		Dichlorobromomethane	100	ID REM	µg/L	< 1	< 5	< 1	< 1
		Dichlorodifluoromethane	200	EPA RSL	µg/L	< 5	< 25	< 5	< 5
		Diisopropyl ether	1500	EPA RSL	µg/L	< 1	< 5	< 1	< 1
		Ethylbenzene	50	ID RBCA	µg/L	< 1	< 5	< 1	< 1
Hexachlorobutadiene	0.14	EPA RSL	µg/L	< 1	< 5	< 1	< 1		
Isopropylbenzene	450	EPA RSL	µg/L	< 1	< 5	< 1	< 1		

**Table 4: Groundwater Laboratory Results
Blue North Mill, Log Yard Area
Kamiah, ID**

Method	Analyte	Screening Level	Basis for Screening Level	Units	MW-1	MW-2	MW-3	MW-4	
					9/2/2021	9/2/2021	9/1/2021	9/1/2021	
					Northern Stockpile Area	Former Log Pond	Log Yard	Log Yard	
VOCs	8260B	Methyl ethyl ketone	5600	EPA RSL	µg/L	< 10	< 50	< 10	< 10
		Methyl isobutyl ketone	6300	EPA RSL	µg/L	< 10	< 50	< 10	< 10
		Methylene bromide	8.3	EPA RSL	µg/L	< 1	< 5	< 1	< 1
		Methylene chloride	5	ID REM	µg/L	< 5	< 25	< 5	< 5
		Methyl-tert-butyl ether	40	ID RBCA	µg/L	< 1	< 5	< 1	< 1
		Naphthalene	70	ID RBCA	µg/L	≤ 5	≤ 25	≤ 5	≤ 5
		n-Butyl benzene	1000	EPA RSL	µg/L	< 1	< 5	< 1	< 1
		n-Propyl benzene	660	EPA RSL	µg/L	< 1	< 5	< 1	< 1
		o-Chlorotoluene	240	EPA RSL	µg/L	< 1	< 5	< 1	< 1
		p-Chlorotoluene	250	EPA RSL	µg/L	< 1	< 5	< 1	< 1
		sec-Butyl benzene	2000	EPA RSL	µg/L	< 1	< 5	< 1	< 1
		Styrene	100	ID REM	µg/L	< 1	< 5	< 1	< 1
		tert-Butyl benzene	690	EPA RSL	µg/L	< 1	< 5	< 1	< 1
		Tetrachloroethylene	11	EPA RSL	µg/L	< 1	< 5	< 1	< 1
		Toluene	1000	ID RBCA	µg/L	< 1	< 5	< 1	< 1
		trans-1,2-Dichloroethylene	100	ID REM	µg/L	< 1	< 5	< 1	< 1
		Trichloroethylene	5	ID REM	µg/L	≤ 1	≤ 5	≤ 1	≤ 1
		Trichlorofluoromethane	5200	EPA RSL	µg/L	< 5	< 25	< 5	< 5
		Trichlorotrifluoroethane	10000	EPA RSL	µg/L	< 1	< 5	< 1	< 1
		Vinyl chloride	2	ID REM	µg/L	≤ 1	≤ 5	≤ 1	≤ 1
Xylenes (Total)	8700	ID RBCA	µg/L	< 3	< 15	< 3	< 3		

**Table 4: Groundwater Laboratory Results
Blue North Mill, Log Yard Area
Kamiah, ID**

Method	Analyte	Screening Level	Basis for Screening Level	Units	MW-1	MW-2	MW-3	MW-4	
					9/2/2021	9/2/2021	9/1/2021	9/1/2021	
					Northern Stockpile Area	Former Log Pond	Log Yard	Log Yard	
PAHs	8270C-SIM	1-Methylnaphthalene	1.1	EPA RSL	µg/L	< 0.25	1.02	0.43	0.914
		2-Chloronaphthalene	750	EPA RSL	µg/L	< 0.25	< 0.25	< 0.25	< 0.25
		2-Methylnaphthalene	36	EPA RSL	µg/L	< 0.25	1.79	0.851	1.75
		Acenaphthene	2200	EPA RSL	µg/L	< 0.05	< 0.05	< 0.05	< 0.05
		Anthracene	11000	ID RBCA	µg/L	< 0.05	< 0.05	< 0.05	< 0.05
		Benzo(a)anthracene	<u>0.03</u>	ID RBCA	µg/L	<u>< 0.05</u>	<u>< 0.05</u>	<u>< 0.05</u>	<u>< 0.05</u>
		Benzo(a)pyrene	0.2	ID RBCA	µg/L	<u>< 0.05</u>	<u>< 0.05</u>	<u>< 0.05</u>	<u>< 0.05</u>
		Benzo(b)fluoranthene	<u>0.03</u>	ID RBCA	µg/L	<u>< 0.05</u>	<u>< 0.05</u>	<u>< 0.05</u>	<u>< 0.05</u>
		Benzo(k)fluoranthene	0.3	ID RBCA	µg/L	< 0.05	< 0.05	< 0.05	< 0.05
		Chrysene	3	ID RBCA	µg/L	< 0.05	< 0.05	< 0.05	< 0.05
		Fluoranthene	1500	ID RBCA	µg/L	< 0.1	< 0.1	< 0.1	< 0.1
		Fluorene	1500	ID RBCA	µg/L	< 0.05	< 0.05	< 0.05	< 0.05
		Indeno(1,2,3-cd)pyrene	0.25	EPA RSL	µg/L	< 0.05	< 0.05	< 0.05	< 0.05
		Naphthalene	70	ID RBCA	µg/L	<u>< 0.25</u>	<u>< 0.25</u>	<u>< 0.25</u>	<u>< 0.25</u>
Pyrene	1100	ID RBCA	µg/L	< 0.05	< 0.05	< 0.05	< 0.05		
SVOCs	8015M	TPH-Diesel Range Organics	--	--	µg/L	1980	1430	432	357

Notes:

- bold** Detection
- < Not detected, reporting limit shown.
- underlined Reporting limit exceeds screening level
- Not analyzed, or screening level not available
- EPA RSL = U.S. Environmental Protection Agency Regional Screening Level for tapwater
- ID RBCA = Idaho Risk Based Corrective Action (2012)
- ID REM = Idaho Risk Evaluation Manual (2018)

Methods:

- RCRA = Resource Conservation and Recovery Act
- PCBs = Polychlorinated Biphenyls
- VOCs = Volatile Organic Compounds
- PAHs = Polycyclic Aromatic Hydrocarbons
- TPH = Total Petroleum Hydrocarbons

**Table 5: Groundwater Elevations
Blue North Mill, Log Yard Area
Kamiah, ID**

Well ID	TOC Elevation	Depth to Water	Groundwater Elevation
	(ft amsl)	(ft)	(ft amsl)
MW-1	1190.05	17.70	1172.35
MW-2	1186.77	20.78	1165.99
MW-3	1186.44	20.21	1166.23
MW-4	1186.15	18.62	1167.53

Notes:

TOC = Top of Well Casing

ft amsl = feet above mean sea level

**Table 6: Hydraulic Conductivity
Blue North Mill, Log Yard Area
Kamiah, ID**

Well	Test	Hydraulic Conductivity (feet/day)	Average (feet/day)	Average (cm/sec)
MW-3	Slug-in	<u>127.1</u>	91.80	3.2E-02
		56.49		
	Slug-out	<u>76.04</u>	95.22	3.4E-02
		<u>114.4</u>		
MW-4	Slug-in	<u>54.92</u>	68.13	2.4E-02
		<u>81.34</u>		
	Slug-out #1	<u>31.25</u>	32.99	1.2E-02
		<u>34.73</u>		
	Slug-out #2	<u>21.78</u>	27.09	9.6E-03
		<u>32.39</u>		

Notes:

Three solutions were used to estimate hydraulic conductivity for the tests:

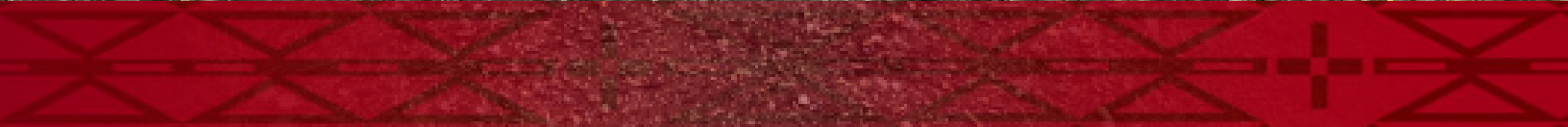
Bouwer-Rice (1976)

Springer-Gelhar (1991)

Hvorslev (1951)

APPENDIX A

Daily Field Notes & Photo Log



for Blue North Mill Phase II Assessment
on 08/18/2021

Site Information					
Project Location:			Weather Conditions: Rain 55 deg F		
Field Activity: Surface soil sampling					
Comments:					
Personnel					
Name		Company		Time In	Time Out
Beth Morter		NewFields		07:00	18:30
Safety Checklist					
Yes	Steel Toed Boots	Yes	Hard Hat	Yes	Traffic Vest
Yes	Gloves	Yes	Safety Goggles	N/A	Ear Protection
Yes	Tailgate Safety	Yes	HASP	Yes	JSA
Field Log					
Time	Description of Work Performed				
07:00	Clock in. Depart motel for site.				
07:06	Arrive at site. Traced perimeter of surface sampling area 1 and took photos.				
07:09	S. Berk transferring supplies needed for test pitting into W. Welzenbach's vehicle. S. Berk and W. Welzenbach depart for test pitting.				
07:20	B. Morter prepares for surface soil sampling at sampling area 1. Pairs GPS with tablet, decons sampling equipment, gathers sampling supplies.				
07:49	W. Welzenbach on site. Demonstrates how to calibrate PID. Calibrates PID. Actual PID readings: 0.0 ppm, 102.7 ppm.				
08:45	Preparing/loading surface soil sampling equipment.				
08:53	Begin surface sampling in area 1 (SS-1).				
11:42	Complete surface sampling of area 1. Begin compositing sample.				
12:05	SS-1 sample time. Labeling and packing samples in cooler.				
12:50	Begin surface sampling in area 2 (SS-2).				
15:12	Complete surface sampling of area 2. Begin compositing sample.				
15:20	SS-2 sample time. Labeling and packing samples in cooler.				
15:37	Detour to S. Berk's work site to get trash bags.				
16:00	Begin surface sampling in sampling area 4 (SS-4). Note the uneven, disturbed sampling surface/terrain.				
16:45	S. Berk joins B. Mort for remainder of SS-4 sampling.				
17:30	SS-4 sample time.				
17:45	Labeling and packing samples in cooler.				
18:04	S. Berk and B. Mort off site.				
18:17	Arrive back at motel; unloading equipment.				
18:30	Clock out.				

for Blue North Mill Phase II Assessment
on 08/19/2021

Site Information					
Project Location:			Weather Conditions: Cloudy 55 deg F		
Field Activity: Surface soil sampling					
Comments:					
Personnel					
Name		Company		Time In	Time Out
Beth Morter		NewFields		07:00	18:30
Safety Checklist					
Yes	Steel Toed Boots	Yes	Hard Hat	Yes	Traffic Vest
Yes	Gloves	Yes	Safety Goggles	N/A	Ear Protection
Yes	Tailgate Safety	Yes	HASP	Yes	JSA
Field Log					
Time	Description of Work Performed				
07:00	Clock in. Depart motel for site.				
07:10	Arrive on site.				
07:11	Calibrate PID, decon sampling equipment, gather materials. Actual PID readings: 0.0 ppm, 101.2 ppm.				
07:26	Begin surface soil sampling in area 3 (SS-3). Note the uneven/disturbed sampling surface.				
09:28	Complete surface sampling in area 3. Begin compositing sample.				
09:40	SS-3 sample time. Labeling and packing samples in cooler.				
09:51	Decon sampling equipment.				
10:02	Driving to sampling area 6.				
10:06	Arrive at sampling area 6 (SS-6) and begin surface soil sampling.				
11:51	Complete surface sampling in area 6. Begin compositing sample.				
12:00	SS-6 sample time. Labeling and packing samples in cooler.				
12:12	Decon sampling equipment.				
12:21	Begin surface soil sampling in sampling area 8 (SS-8).				
13:49	Complete surface sampling in area 8. Begin compositing sample.				
14:00	SS-8 sample time. Labeling and packing samples in cooler. Joined by S. Berk for remainder of day because test pitting is complete.				
14:02	Decon sampling equipment.				
14:10	Equipment rinse blank: SS-ERB, sample time 14:10.				
14:35	Begin surface soil sampling in sampling area 5 (SS-5).				
15:17	Complete surface sampling in area 5. Begin compositing sample.				
15:30	SS-5 sample time. Labeling and packing samples in cooler.				
15:44	Decon sampling equipment.				
15:52	Begin surface soil sampling in sampling area 9 (SS-9).				
16:45	Complete surface sampling in area 9. Begin compositing sample.				
17:00	SS-9 sample time. Labeling and packing samples in cooler.				
17:05	Decon sampling equipment.				
17:10	Begin surface soil sampling in sampling area 7 (SS-7).				
17:41	Complete surface sampling in area 7. Begin compositing sample.				

for Blue North Mill Phase II Assessment
on 08/19/2021

Time	Description of Work Performed
17:50	SS-7 sample time. Labeling and packing samples in cooler. Loading equipment, etc.
18:00	Off site to town.
18:05	Buying ice for sample storage.
18:15	Arrive at hotel. Unloading/organizing vehicle.
18:30	Clock out.

for Blue North Mill Surface Soil
on 08/18/2021

Site Information					
Project Location: Kamiah, ID			Weather Conditions: Cloudy 55 deg F		
Field Activity: Test Pit excavation					
Comments:					
Personnel					
Name		Company		Time In	Time Out
Sam Berkelhammer		NewFields		07:00	
Safety Checklist					
Yes	Steel Toed Boots	Yes	Hard Hat	Yes	Traffic Vest
Yes	Gloves	Yes	Safety Goggles	Yes	Ear Protection
Yes	Tailgate Safety	Yes	HASP	Yes	JSA
Field Log					
Time	Description of Work Performed				
07:00	Start for day				
07:15	Arrive on site				
07:30	Hold tailgate safety meeting with Jason Hendren, excavator for test pits				
07:35	Start excavation of TP-1, slightly to southeast of surface soil sub-sample location.				
08:20	Jarvis from Nez Perce Tribe Cultural Resources Monitoring onsite				
08:50	Collect grab sample TP-1(9')				
08:52	Done with TP-1, total depth is 13 feet				
09:01	Jason backfills TP-1				
09:22	Start TP-2				
09:40	Jared Norman onsite				
10:14	TP-2 at 12 feet depth. Jason backfills pit				
10:37	Start TP-3.				
11:16	TP-3 at 14 feet. Jason backfills hole				
11:36	Start TP-4				
12:00	TP-4 at 13 feet				
12:10	Collect TP-4(13')				
12:34	Start TP-5				
12:44	Water encountered at 3.5 feet				
12:47	Tooth breaks off excavator bucket. Jason calls rental company. SB helps B Morter with surface soil sampling				
13:39	Start test pitting at boiler ash stockpile. TP-6				
14:00	Sample TP-6(2) collected				
14:10	TP-6 at 13 feet. Jason backfills hole				
14:19	Start TP-7				
14:30	Water encountered in test pit				
14:36	TP-7 at 11 feet, filling with water. Jason backfills pit				
14:46	Start TP-8				
15:07	TP-8 at 11 feet, filling with water. Jason backfills hole.				
15:14	Start digging TP-9				

for Blue North Mill Surface Soil
on 08/18/2021

Time	Description of Work Performed
15:39	TP-9 at 13 feet depth. Jason backfills pit
15:45	Collect sample TP-9(13')
15:56	Start TP-10
16:13	Water encountered at 8 feet depth
16:17	TP-10 at 10 feet. Jason backfills pit
16:32	Start TP-11. Soil is rocky and Jason doesn't want to damage the broken tooth on excavator. Jason drives excavator back to office
16:45	SB meets BM to help with surface soil sampling
16:50	Jason, Jared, and Jarvis offsite
17:53	SB and BM offsite. Call W Welzenbach to update
18:11	Arrive at hotel, unload truck
18:30	Done for day

for Blue North Mill Surface Soil
on 08/19/2021

Site Information					
Project Location:			Weather Conditions: Partly Cloudy 80 deg F		
Field Activity: Test pitting					
Comments:					
Personnel					
Name		Company		Time In	Time Out
Sam Berkelhammer		NewFields		07:00	
Safety Checklist					
Yes	Steel Toed Boots	Yes	Hard Hat	Yes	Traffic Vest
Yes	Gloves	Yes	Safety Goggles	Yes	Ear Protection
Yes	Tailgate Safety	Yes	HASP	Yes	JSA
Field Log					
Time	Description of Work Performed				
07:00	Start for day, load truck				
07:10	Arrive onsite. Jason Hendren already onsite, replacing excavator bucket tooth				
07:15	Jarvis onsite				
07:45	Set up at TP-11 to continue excavating				
08:34	TP-11 at 12 feet deep. Jason backfills pit				
08:40	Ashley Hendren from archeological office onsite				
08:48	Start TP-12				
09:15	Collect TP-12(10)				
09:19	TP-12 at 13 feet. Jason backfills pit				
09:22	Jared Norman onsite				
09:43	Start TP-13				
10:14	TP-13 at 12.5 feet. Jason backfills pit, then drives to log pond area				
10:36	SB and Jason walk remaining test pit locations in log pond area. Will attempt to excavate where soil appears soft				
10:48	Start TP-14				
11:10	Collect TP-14(12)				
11:17	TP-14 at 13 feet. Jason backfills pit				
11:25	SB calls W Welzenbach to update				
11:32	Start TP-15				
12:15	Collect TP-15(14)				
12:26	TP-15 at 14 feet. Jason backfills pit				
12:43	Start TP-16				
13:29	TP-16 at 14 feet. Jason backfills pit				
13:33	Jared Norman offsite				
14:00	Jason Hendren offsite				
14:26	SB helps BM with surface soil sampling. See those field notes				
17:45	Jarvis offsite				
18:00	SB and BM offsite				
18:05	Buy ice in Kamiah				

for Blue North Mill Surface Soil
on 08/19/2021

Time	Description of Work Performed
18:15	Arrive at hotel. unload truck
18:30	Done for day

for Blue North Mill Surface Soil
on 08/20/2021

Site Information					
Project Location:			Weather Conditions: Clear 65 deg F		
Field Activity: Soil sampling					
Comments:					
Personnel					
Name		Company		Time In	Time Out
Beth Morter		NewFields		07:40	15:30
Sam Berkelhammer		NewFields		07:00	15:30
Safety Checklist					
Yes	Steel Toed Boots	N/A	Hard Hat	Yes	Traffic Vest
Yes	Gloves	Yes	Safety Goggles	N/A	Ear Protection
Yes	Tailgate Safety	Yes	HASP	Yes	JSA
Field Log					
Time	Description of Work Performed				
07:00	Start for day. Load truck and mob to site				
07:15	Arrive at site				
07:20	Collect remaining gps points of test pits				
07:40	Decontaminate trowel				
08:00	Collect SS-10. Grab sample of boiler ash from northern conductivity anomaly				
08:16	SB labels soil jars from yesterday. BM updates dfr from yesterday.				
08:30	Fill out COCs for surface and subsurface soil				
09:30	Update test pit logs				
09:47	United Rental onsite to pick up excavator				
10:02	United Rental offsite. SB calls Dave Steffy about gate key				
10:10	Dave Steffy arrives to take gate key				
10:14	SB and BM offsite				
10:20	Get gas in Kamiah				
10:31	Depart Kamiah, mob to Missoula				
14:40	Arrive in Missoula, get fuel (switched to MST)				
14:44	Arrive at Missoula office. Unload truck				
15:30	Done for day				

for Blue North Mill Surface Soil
on 08/30/2021

Site Information					
Project Location:			Weather Conditions: Clear 80 deg F		
Field Activity: Mob and boreholes					
Comments:					
Personnel					
Name	Company			Time In	Time Out
Jarvis	Nez Perce Cultural Resources office			12:25	
Ryan	Environmental West			11:45	
Brandon	Environmental West			11:45	
Brent Johnson	Environmental West			11:45	
Sam Berkelhammer	NewFields			08:30	
Safety Checklist					
Yes	Steel Toed Boots	Yes	Hard Hat	Yes	Traffic Vest
Yes	Gloves	Yes	Safety Goggles	Yes	Ear Protection
Yes	Tailgate Safety	Yes	HASP	Yes	JSA
Field Log					
Time	Description of Work Performed				
08:30	Start loading truck				
09:30	Mob to Kamiah				
11:50	Arrive onsite. Environmental west already onsite				
11:55	Hold tailgate safety meeting				
12:07	Mark MW-1 location at boiler ash stockpile. Drillers position trucks				
12:20	Calibrate PID: gas reads 100.3 ppm				
12:25	Jarvis from cultural resources office onsite				
13:00	Water encountered at 15'				
13:20	Sample time BH-1(10-11) Terracore plunger cannot collect VOC sample				
14:09	Drill at 25 feet				
14:14	Drillers construct well. Screened from 10-25 feet bgs				
14:20	Sample time BH-1(15-20) Silty sand below observed fill material				
15:00	Move to BH-2 in log pond area				
15:20	Start drilling BH-2				
17:10	Sample time BH-2(15-16) Only depth interval with enough recovery to collect a full sample				
17:14	Jarvis offsite				
17:15	Drillers begin constructing MW-2. Same specs as MW-1. SB labels sample jars				
17:40	Done with MW-2. Move to MW-3 location for tomorrow morning				
17:45	W. Welzenbach calls for update on today's work				
17:55	SB marks mw-4 location. Drillers offsite				
18:05	Get ice in Kamiah				
18:15	Check into hotel, unload truck				

for Blue North Mill Surface Soil
on 08/30/2021

Time	Description of Work Performed
18:30	Done for day

for Blue North Mill Surface Soil
on 08/30/2021

Photo Log



Photo Looking Northeast
Photo Description:
Drillers setting up at BH-1



Photo Description:
BH-1, 0-18"

for Blue North Mill Surface Soil
on 08/30/2021



Photo Description:
BH-1, 5-6.5 feet



Photo Description:
BH-1, 10-11.5 feet

for Blue North Mill Surface Soil
on 08/30/2021



Photo Description:
BH-1, 17.5-19



Photo Description:
BH-1, 20-21.5'

for Blue North Mill Surface Soil
on 08/30/2021



Photo Description:
BH-2, 0-1 feet



Photo Description:
BH-2, 5-6

for Blue North Mill Surface Soil
on 08/30/2021



Photo Location:
BH-2 location in former log pond area.
Photo Description:
BH-2 location



Photo Description:
BH-2, 10-11

for Blue North Mill Surface Soil
on 08/30/2021



Photo Description:
BH-2, 15-16'

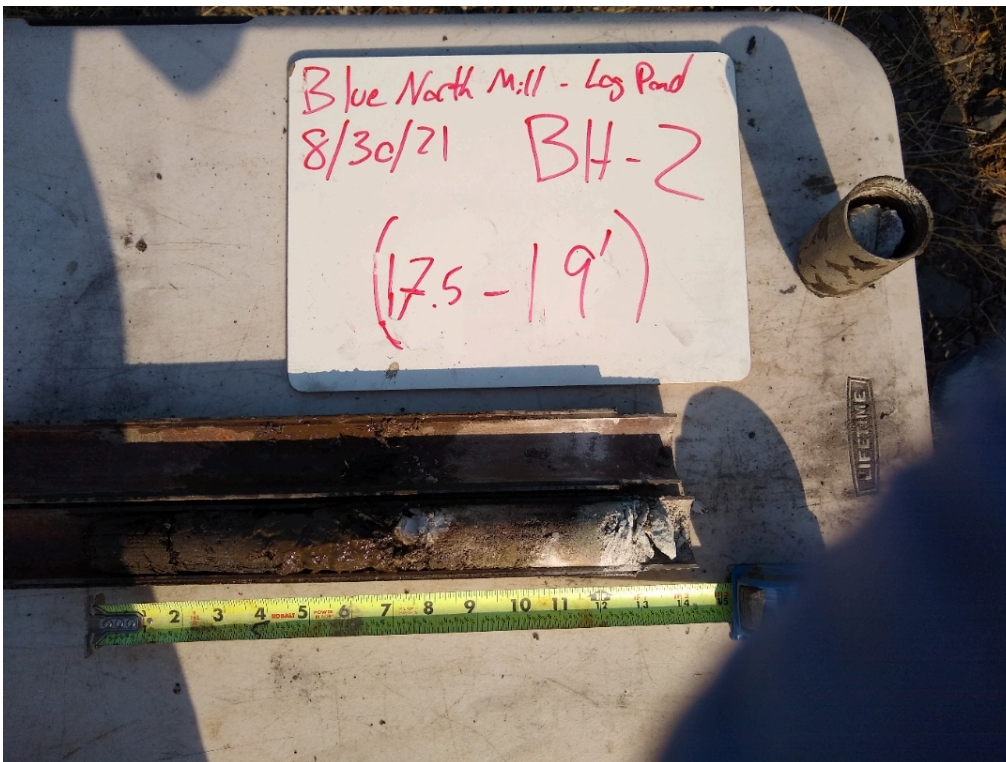


Photo Description:
BH-2, 17.5-19'

for Blue North Mill Surface Soil
on 08/30/2021



Photo Description:
BH-2, 22.5-24'



Photo Description:
BH-2, 25-26'

for Blue North Mill Log Yard, Subsurface Tes
on 08/31/2021

Site Information					
Project Location:			Weather Conditions: Clear 75 deg F		
Field Activity: Boreholes					
Comments:					
Personnel					
Name		Company		Time In	Time Out
Sam Berkelhammer		NewFields		07:00	
Safety Checklist					
Yes	Steel Toed Boots	Yes	Hard Hat	Yes	Traffic Vest
Yes	Gloves	Yes	Safety Goggles	Yes	Ear Protection
Yes	Tailgate Safety	Yes	HASP	Yes	JSA
Field Log					
Time	Description of Work Performed				
06:44	Start for day, load truck				
07:00	Arrive onsite, drillers already onsite				
07:05	Hold tailgate safety meeting				
07:10	Start drilling BH-3				
07:13	Calibrate PID. Gas reads 100.2 ppm				
07:31	Jarvis onsite				
08:02	Water encountered at 18' bgs in BH-3				
08:30	Done drilling BH-3. Drillers construct MW-3, same specs as before				
08:40	Sample time BH-3(8-9)				
08:45	Sample time BH-3(18-19) Groundwater interface				
09:00	Done constructing MW-3				
09:14	Set up at BH-4				
09:20	Start drilling BH-4				
09:35	Jared Norman onsite				
10:50	Done drilling BH-4				
11:00	Collect BH-ERB Equipment rinseate blank, using decontaminated split spoon				
11:05	SB drives to hotel to get food. W Welzenbach calls for update				
11:25	Back onsite, drillers are constructing MW-4				
11:30	Sample time BH-4(8-9)				
11:35	Sample time BH-4(25) Saturated soil with good recovery in split spoon				
11:45	Drillers drill holes for bollards				
12:05	SB starts development of MW-3				
13:19	Done with development of MW-3				
13:21	Drillers move to MW-3				
13:23	SB starts developing MW-4				
14:33	Done developing MW-4				
14:37	Start developing MW-1				

for Blue North Mill Log Yard, Subsurface Tes
on 08/31/2021

Time	Description of Work Performed
14:50	Drillers move to MW-2
16:03	Done developing MW-1
16:10	SB fills out soil COC and labels ERB bottles
16:40	Drillers move to MW-1. SB starts developing MW-2
17:39	Submersible pump stops working, driller brings theirs
18:01	Done developing MW-2. Drillers offsite
18:09	SB offsite
18:15	Arrive at hotel. Unload truck
18:30	Done for day

Photo Log



Photo Description:
BH-3 location



Photo Description:
BH-3, 4-4.5'

for Blue North Mill Log Yard, Subsurface Tes
on 08/31/2021



Photo Description:
BH-3, 5-6.5'



Photo Description:
BH-3, 7.5-9'

for Blue North Mill Log Yard, Subsurface Tes
on 08/31/2021



Photo Description:
BH-3, 12.5-14



Photo Description:
BH-3, 15-16.5

for Blue North Mill Log Yard, Subsurface Tes
on 08/31/2021



Photo Description:
BH-3, 17.5-19



Photo Description:
BH-3, 20-21.5

for Blue North Mill Log Yard, Subsurface Tes
on 08/31/2021



Photo Description:
BH-3, 25-26



Photo Description:
BH-4 location

for Blue North Mill Log Yard, Subsurface Tes
on 08/31/2021



Photo Description:
BH-4, 0-18"



Photo Description:
BH-4, 2.5-4'

for Blue North Mill Log Yard, Subsurface Tes
on 08/31/2021



Photo Description:
BH-4, 5-6.5



Photo Description:
BH-4, 7.5-9

for Blue North Mill Log Yard, Subsurface Tes
on 08/31/2021



Photo Description:
BH-4, 10-11.5



Photo Description:
BH-4, 12.5-14

for Blue North Mill Log Yard, Subsurface Tes
on 08/31/2021

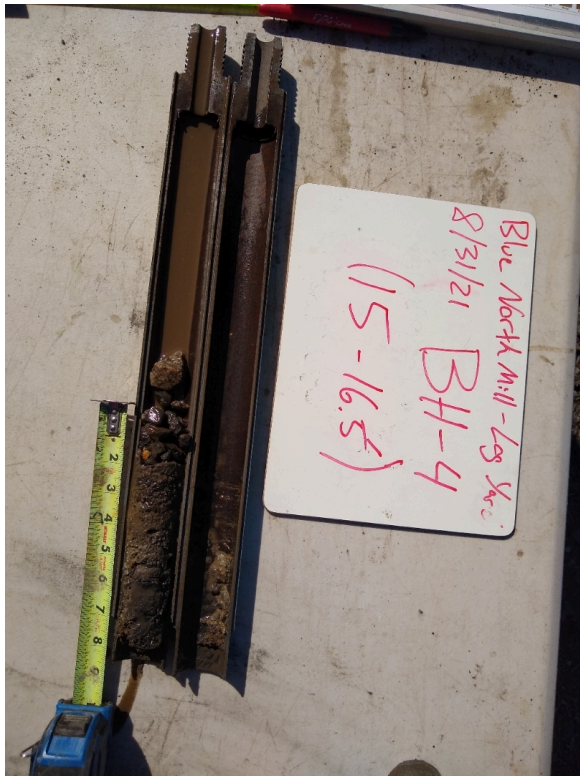


Photo Description:
BH-4, 15-16.5



Photo Description:
Gravel from groundwater interface.
Granite and basalt

for Blue North Mill Log Yard, Subsurface Tes
on 08/31/2021



Photo Description:
BH-4, 17.5-18.5



Photo Description:
BH-4, 22.5-24

for Blue North Mill Log Yard, Subsurface Tes
on 08/31/2021



Photo Description:
BH-4, 25-26

for Blue North Mill Log Yard, Subsurface Test
on 09/01/2021

Site Information					
Project Location:			Weather Conditions: Clear 75 deg F		
Field Activity: Fly drone, sample groundwater					
Comments:					
Personnel					
Name		Company		Time In	Time Out
Sam Berkelhammer		NewFields		07:30	
Safety Checklist					
Yes	Steel Toed Boots	N/A	Hard Hat	Yes	Traffic Vest
Yes	Gloves	Yes	Safety Goggles	N/A	Ear Protection
Yes	Tailgate Safety	Yes	HASP	Yes	JSA
Field Log					
Time	Description of Work Performed				
07:30	Start for day. Calibrate drone for flight				
08:00	Load truck				
08:10	Get ice and other supplies in Kamiah				
08:33	Arrive onsite. Start placing GCPs for drone flight				
09:26	Set up drone for flight				
09:30	Start drone flight				
10:25	Done with drone flight				
10:35	Calibrate YSI and turbidity meter				
10:59	Done calibrating. Return to hotel to get slugs and transducer				
11:16	Back at site to set up practice slug tests at MW-3 and MW-4				
12:59	Set up for groundwater sampling at MW-3				
13:32	Start purging MW-3				
14:30	Sample time MW-3				
15:03	Set up at MW-4 to sample groundwater				
15:27	Bladder pump controller is out of batteries, drive to Kamiah to buy				
15:50	Back onsite, start purge				
16:30	Sample time MW-4. Duplicate MW-5, sample time 1200				
17:15	Sample time MW-ERB Collected from decontaminated water level meter				
17:38	SB offsite				
17:46	Arrive at hotel, unload truck				
18:00	Done for day				

Photo Log



Photo Location:
East of south entrance gate. Looking
Northwest
Photo Description:
GCP 1



Photo Location:
East of north entrance gate. Looking
West
Photo Description:
GCP 2

for Blue North Mill Log Yard, Subsurface Test
on 09/01/2021



Photo Location:
Northwest corner of site. Looking
Southeast
Photo Description:
GCP 3



Photo Location:
West of tracks, southwest corner of
building. Looking Northeast
Photo Description:
GCP 4

for Blue North Mill Log Yard, Subsurface Test
on 09/01/2021



Photo Location:
South of north access road, east of
long building. . Looking East
Photo Description:
GCP 5



Photo Location:
Log yard area. North of MW-3. West of
track. Just northeast of ditch with trees
and blackberries. Looking South
Photo Description:
GCP 6

for Blue North Mill Log Yard, Subsurface Test
on 09/01/2021



Photo Description:
Drone before flight



Photo Description:
Drone taking off

for Blue North Mill Log Yard, Subsurface Test
on 09/01/2021



Photo Description:
Drone at second location

for Blue North Mill Log Yard, Subsurface Tes
on 09/02/2021

Site Information					
Project Location:			Weather Conditions: Clear 75 deg F		
Field Activity: Groundwater sampling and slug tests					
Comments:					
Personnel					
Name		Company		Time In	Time Out
Sam Berkelhammer		NewFields		07:45	
Safety Checklist					
Yes	Steel Toed Boots	N/A	Hard Hat	Yes	Traffic Vest
Yes	Gloves	Yes	Safety Goggles	N/A	Ear Protection
Yes	Tailgate Safety	Yes	HASP	Yes	JSA
Field Log					
Time	Description of Work Performed				
07:45	Start for day, load truck				
07:55	Buy ice in Kamiah				
08:08	Arrive onsite. Calibrate YSI and turbidity meter				
08:39	Set up at MW-1				
08:51	Start purge				
09:30	Sample time MW-1				
09:55	Set up at MW-2				
10:11	Start purge				
10:20	Jared Norman onsite				
10:50	Sample time MW-2				
11:31	Done at MW-2, SB and Jared offsite				
11:45	SB takes break				
13:45	Break over, back onsite with J Norman and W Welzenbach				
13:50	Set up slug test at MW-4				
14:45	Set up slug test at MW-3				
15:10	Done with slug test				
15:20	SB, J Norman, and W Welzenbach offsit				
15:21	Back at hotel, load up truck to mob to Missoula				
15:45	Meet willy and Jared to go over completed field work				
16:24	Get gas, mob to Missoula				
20:11	Arrive in Missoula, get fuel.				
20:17	Arrive at Missoula office, unload truck				
20:45	Done for day				



Photo 1
Photo taken 8/18/2021
View to North

Location:
Surface soil area SS-1

Description:
Former roads and weeds typical of this portion of the former log yard



Photo 2
Photo taken 8/18/2021
View to North

Location:
Surface soil area SS-4

Description:
Piles of basalt cobbles and wood chip waste typical of eastern portion of log yard



Photo 3
Photo taken 8/19/2021
View to Northwest

Location:
Former Log Pond area
Surface soil area SS-5

Description:
Solid waste debris was seen in the southwestern portion of the log yard area



Photo 4
Photo taken 8/19/2021
View to East

Location:
Surface soil area SS-6

Description:
Much of the log yard area is covered with grass and weeds



Photo 5

Photo taken 8/18/2021

Location:

Surface soil area SS-9

Description:

Large piles of logs were found in the eastern portion of the log yard area



Photo 6

Photo taken 8/18/2021

Location:

Former log pond

Description:

Location of test pit TP-1



Photo 7

Photo taken 8/18/2021

Location:

Former log pond

Description:

Location of test pit TP-2



Photo 8

Photo taken 8/18/2021

Location:

Former log pond, test pit
TP-3

Description:

Basalt cobbles and wood
waste typical of fill
material observed in log
pond area



Photo 9

Photo taken 8/18/2021

Location:

Former log pond, test pit
TP-5

Description:

Excavator had refusal at about three feet depth in basalt cobbles and boulders. Shallow groundwater filled the hole



Photo 10

Photo taken 8/19/2021

Location:

Former log pond, test pit
TP-14

Description:

Fill material typical of what was observed in test pits. Water was encountered at about the elevation of the surrounding land surface



Photo 11

Photo taken 8/18/2021

Location:

Northern stockpile area
View to southeast

Description:

Excavator at test pit TP-6
location



Photo 12

Photo taken 8/18/2021

Location:

Northern stockpile area

Description:

Soil exposed by test pit
TP-6. The yellow-brown
soil is sandy gravel, which
is underlain by basalt
cobbles and wood waste
fill



Photo 13

Photo taken 8/18/2021

Location:

Northern stockpile area

Description:

Test pit TP-9, showing native grey sand below fill materials



Photo 14

Photo taken 8/19/2021

Location:

Northern stockpile area

Description:

Excavator at test pit TP-13 location. Former boiler building is visible in the background



Photo 15

Photo taken 8/30/2021

Location:

Northern stockpile area

Description:

Environmental West
Exploration drillers setting
up at BH-1 location



Photo 16

Photo taken 8/30/2021

Location:

Former log pond

Description:

Drillers setting up to drill
BH-2



Photo 17
Photo taken 8/31/2021

Location:
Log yard area

Description:
Silty sand with clay from
about 15-16 feet below
ground surface in
borehole BH-3



Photo 18
Photo taken 8/31/2021

Location:
Log yard area

Description:
Water-bearing sand layer
from the bottom of
borehole BH-4



Photo 19

Photo taken 9/1/2021

Location:

West side of railroad tracks

Description:

Ground control point for drone flight



Photo 20

Photo taken 9/1/2021

Location:

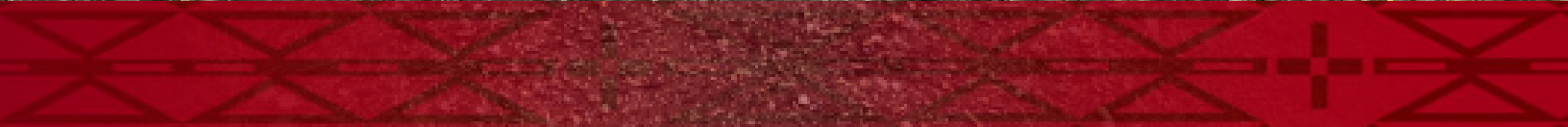
Railroad tracks

Description:

Drone ready to fly

APPENDIX B

Field Sampling Forms





Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS1a					Sampler: Beth Morter Willy Welzenbach					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS1a	08/18/21 09:11		0" - 6"	0.0	ML - silt	Moist	Med brown	no	no	

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS1a, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS1b					Sampler: Beth Morter Willy Welzenbach					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS1b	08/18/21 09:05		0" - 6"	0.0	ML - silt	Moist	Medium brown	no	no	



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS1c					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS1c	08/18/21 10:04		0" - 6"	0.0	ML - silt	Dry	Medium brown	no	no	



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS1d					Sampler: Beth Morter Willy Welzenbach					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS1d	08/18/21 09:23		0" - 6"	0.0	ML - silt	Dry	Yellow-brown	no	no	



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS1e					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS1e	08/18/21 10:31		0" - 6"	0.0	ML - silt	Moist	Dark brown	no	no	



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS1f					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS1f	08/18/21 10:16		0" - 6"	0.0	ML - silt	Moist	Medium brown	no	no	



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS1g					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS1g	08/18/21 09:49		0" - 6"	0.0	ML - silt	Dry	Medium brown	no	no	



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS1h					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS1h	08/18/21 09:36		0" - 6"	0.0	ML - silt	Dry	Medium brown	no	no	

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS1h, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS1i					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS1i	08/18/21 10:47		0" - 6"	0.0	ML - silt	Moist	Medium brown	no	no	

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS1i, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS1j					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS1j	08/18/21 11:01		0" - 6"	0.0	ML - silt	Moist	Medium brown	no	no	

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS1j, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS1k					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS1k	08/18/21 11:23		0" - 6"	0.0	ML - silt	Dry	Dark brown	no	no	



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS11					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS11	08/18/21 11:27		0" - 6"	0.0	ML - silt	Dry	Medium brown	no	no	



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS2a					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS2a	08/18/21 14:28	Sample collected from top of berm/pile (see photo).	0" - 6"	0.0	GM - silty gravel	Dry	Dark brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS2a, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS2b					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS2b	08/18/21 13:17		0" - 6"	0.0	GM - silty gravel	Dry	Light brown	no	no	



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS2c					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS2c	08/18/21 14:14		0" - 6"	0.0	GM - silty gravel	Dry	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS2d					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS2d	08/18/21 14:39		0" - 6"	0.0	GM - silty gravel	Dry	Dark brown	no	no	

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS2d, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS2e					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS2e	08/18/21 13:10		0" - 6"	0.0	GM - silty gravel	Dry	Yellow brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS2e, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS2f					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS2f	08/18/21 13:21		0" - 6"	0.0	GM - silty gravel	Dry	Grey brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS2g					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS2g	08/18/21 14:02		0" - 6"	0.0	GM - silty gravel	Dry	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS2h					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS2h	08/18/21 14:48		0" - 6"	0.0	GM - silty gravel	Dry	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS2i					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS2i	08/18/21 13:04		0" - 6"	0.0	GM - silty gravel	Dry	Dark brown to olive brown	no	no	Pieces of wood waste



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS2j					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS2j	08/18/21 13:31		0" - 6"	0.0	GM - silty gravel	Dry	Dark brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS2j, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS2k					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS2k	08/18/21 13:50		0" - 6"	0.0	GM - silty gravel	Dry	Dark brown	no	no	

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS2k, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS2I					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS2I	08/18/21 14:57		0" - 6"	0.0	GM - silty gravel	Dry	Dark brown	no	no	

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS2I, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS3a					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS3a	08/19/21 08:47		0" - 6"	0.0	SM - silty sand	Dry	Olive gray	no	no	

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS3a, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS3b					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS3b	08/19/21 08:29		0" - 6"	0.0	SM - silty sand	Dry	Olive brown	no	no	

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS3b, Interval: 0" - 6".



Sample ID: SS3b, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS3c					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS3c	08/19/21 09:01		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS3c, Interval: 0" - 6".



Sample ID: SS3c, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS3d					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS3d	08/19/21 08:38		0" - 6"	0.0	SM - silty sand	Dry	Olive	no	no	

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS3d, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS3e					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS3e	08/19/21 08:18		0" - 6"	0.0	SM - silty sand	Dry	Medium brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS3e, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS3f					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS3f	08/19/21 09:09		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS3g					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS3g	08/19/21 09:16		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Woods chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS3h					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS3h	08/19/21 08:09		0" - 6"	0.0	SM - silty sand	Dry	Olive brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS3h, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS3i					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS3i	08/19/21 07:32		0" - 6"	0.0	ML - silt	Moist	Dark brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS3i, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS3j					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS3j	08/19/21 07:46		0" - 6"	0.0	ML - silt	Dry	Dark brown	no	no	



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS3k					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS3k	08/19/21 07:52		0" - 6"	0.0	ML - silt	Moist	Dark brown	no	no	

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS3k, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS3I					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS3I	08/19/21 08:03		0" - 6"	0.0	SM - silty sand	Dry	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS4a					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS2a	08/18/21 16:47		0" - 6"	0.0	GM - silty gravel	Moist	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS4b					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS4b	08/18/21 16:53		0" - 6"	0.0	SM - silty sand	Moist	Olive brown to dark brown	no	no	Silty sand with gravel. Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS4c					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS4c	08/18/21 16:39		0" - 6"	0.0	GM - silty gravel	Moist	Dark brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS4c, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS4d					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS4d	08/18/21 17:04		0" - 6"	0.0	SM - silty sand	Dry	Grey brown	no	no	Silty sand with gravel. Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS4d, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS4e					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS4e	08/18/21 17:08		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Silty sand with gravel. Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS4e, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS4f					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS4f	08/18/21 16:33		0" - 6"	0.0	GM - silty gravel	Moist	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS4g					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS4g	08/18/21 17:23		0" - 6"	0.0	SM - silty sand	Moist	Light brown	no	no	Silty sand with gravel and wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS4g, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS4h					Sampler: Beth Morter					
Method: hand sample					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS4h	08/18/21 17:12		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Silty sand with gravel and wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS4i					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS4i	08/18/21 16:21		0" - 6"	0.0	GM - silty gravel	Dry	Dark brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS4i, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS4j					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS4j	08/18/21 17:27		0" - 6"	0.0	SM - silty sand	Moist	Gray brown	no	no	Silty sand with gravel and wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS4k					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS4k	08/18/21 17:19		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Silty sand with gravel and wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS4I					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS4I	08/18/21 17:16		0" - 6"	0.0	SM - silty sand	Moist	Red brown	no	no	Silty sand with gravel



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS5a					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS5a	08/19/21 14:45		0" - 6"	0.0	SM - silty sand	Dry	Yellow brown	no	no	Silty sand with cobbles and gravel. Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS5a, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS5b					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS5b	08/19/21 14:50		0" - 6"	0.0	SM - silty sand	Dry	Yellow brown	no	no	Same as SS5a



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS5c					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS5c	08/19/21 14:54		0" - 6"	0.0	SM - silty sand	Dry	Brown to dark brown	no	no	Silty sand with gravel and wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS5c, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS5d					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS5d	08/19/21 14:56		0" - 6"	0.0	SM - silty sand	Moist	Brown to dark brown	no	no	Same as SS5c



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS5e					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS5e	08/19/21 15:11		0" - 6"	0.0	SM - silty sand	Dry	Yellow brown	no	no	Same as SS5f



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS5f					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS5f	08/19/21 15:07		0" - 6"	0.0	SM - silty sand	Dry	Light brown	no	no	Silty sand with gravel and cobbles.

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS5f, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS5g					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS5g	08/19/21 15:03		0" - 6"	0.0	SM - silty sand	Dry	Medium brown	no	no	Same as SS5a. Few wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS5h					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS5h	08/19/21 15:00		0" - 6"	0.0	SM - silty sand	Dry	Medium brown	no	no	Same as SS5a. Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS5i					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS5i	08/19/21 15:14		0" - 6"	0.0	SM - silty sand	Dry	Dark brown	no	no	Silty sand with gravel and wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS5j					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS5j	08/19/21 15:17		0" - 6"	0.0	SM - silty sand	Moist	Medium brown	no	no	Same as SS5i



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS5k					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS5k	08/19/21 15:19		0" - 6"	0.0	SM - silty sand	Moist	Brown	no	no	Silty sand with gravel and cobbles. Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS5I					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS5I	08/19/21 09:39		0" - 6"	0.0	SM - silty sand	Dry	Yellow brown	no	no	Silty sand with gravel.



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS6a					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS6a	08/19/21 10:18		0" - 6"	0.0	SM - silty sand	Dry	Olive	no	no	

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS6a, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS6b					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS6b	08/19/21 10:28		0" - 6"	0.0	SM - silty sand	Dry	Olive gray	no	no	



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS6c					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS6c	08/19/21 10:40		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS6c, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS6d					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS6d	08/19/21 10:49		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS6e					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS6e	08/19/21 11:44		0" - 6"	0.0	SM - silty sand	Dry	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS6f					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS6f	08/19/21 11:20		0" - 6"	0.0	SM - silty sand	Dry	Olive brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS6g					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS6g	08/19/21 11:14		0" - 6"	0.0	SM - silty sand	Dry	Dark brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS6g, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS6h					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS6h	08/19/21 10:56		0" - 6"	0.0	SM - silty sand	Dry	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS6i					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS6i	08/19/21 11:34		0" - 6"	0.0	SM - silty sand	Dry	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS6j					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS6j	08/19/21 11:28		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS6j, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS6k					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS6k	08/19/21 11:08		0" - 6"	0.0	SM - silty sand	Dry	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS6I					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS6I	08/19/21 11:02		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS7a					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS7a	08/19/21 17:12		0" - 6"	0.0	SM - silty sand	Moist	Yellow brown	no	no	



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS7b					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS7b	08/19/21 17:15		0" - 6"	0.0	SM - silty sand	Dry	Grey brown	no	no	Silty sand with gravel and cobbles



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS7c					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS7c	08/19/21 17:18		0" - 6"	0.0	SM - silty sand	Dry	Light brown	no	no	Silty sand with angular cobbles



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS7d					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS7d	08/19/21 17:21		0" - 6"	0.0	SM - silty sand	Moist	Yellow brown	no	no	Silty sand with wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS7e					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS7e	08/19/21 17:10		0" - 6"	0.0	SM - silty sand	Moist	Brown	no	no	



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS7f					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS7f	08/19/21 17:37		0" - 6"	0.0	SC - clayey sand	Moist	Brown	no	no	Silty sand with basalt cobbles and gravel



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS7g					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS7g	08/19/21 17:33		0" - 6"	0.0	SM - silty sand	Dry	Brown	no	no	Silty sand with gravel and basalt cobbles



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS7h					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS7h	08/19/21 17:24		0" - 6"	0.0	SM - silty sand	Moist	Yellow brown	no	no	Silty sand with gravel and wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS7h, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS7i					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS7i	08/19/21 17:08		0" - 6"	0.0	SM - silty sand	Moist	Brown	no	no	Silty sand with gravel and wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS7i, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS7j					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS7j	08/19/21 17:40		0" - 6"	0.0	SM - silty sand	Dry	Grey brown	no	no	Silty sand with gravel and wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS7k					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS7k	08/19/21 17:30		0" - 6"	0.0	SM - silty sand	Dry	Medium brown	no	no	Silty sand with basalt cobbles



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS71					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS71	08/19/21 17:27		0" - 6"	0.0	SM - silty sand	Moist	Brown	no	no	Silty sand with basalt cobbles and some wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS8a					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS8a	08/19/21 12:36		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS8a, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS8b					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS8b	08/19/21 12:45		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS8c					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS8c	08/19/21 12:51		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS8d					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS8d	08/19/21 12:58		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS8d, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS8e					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS8e	08/19/21 13:05		0" - 6"	0.0	SM - silty sand	Dry	Dark brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS8e, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS8f					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS8f	08/19/21 13:49		0" - 6"	0.0	SM - silty sand	Dry	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS8g					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS8g	08/19/21 13:43		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS8h					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS8h	08/19/21 13:36		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS8h, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS8i					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS8i	08/19/21 13:26		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS8j					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS8j	08/19/21 13:11		0" - 6"	0.0	SM - silty sand	Dry	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS8k					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS8k	08/19/21 13:32		0" - 6"	0.0	SM - silty sand	Moist	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS8I					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS8I	08/19/21 13:19		0" - 6"	0.0	SM - silty sand	Dry	Dark brown	no	no	Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS9a					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS9a	08/19/21 16:39	Sample taken from bottom of ditch	0" - 6"	0.0	SM - silty sand	Dry	Light brown	no	no	Silty sand with some gravel

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS9a, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS9b					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS9b	08/19/21 16:33		0" - 6"	0.0	SM - silty sand	Moist	Brown	no	no	Silty sand with gravel and wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS9c					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS9c	08/19/21 16:12		0" - 6"	0.0	SM - silty sand	Moist	Olive brown	no	no	Silty sand with gravel and some clay



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS9d					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS9d	08/19/21 16:09		0" - 6"	0.0	SM - silty sand	Moist	Brown	no	no	Silty sand with basalt cobbles and wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS9e					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS9e	08/19/21 16:41		0" - 6"	0.0	SM - silty sand	Dry	Olive brown	no	no	Silty sand with some gravel



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS9f					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS9f	08/19/21 16:30		0" - 6"	0.0	SM - silty sand	Moist	Brown	no	no	Silty sand with gravel and wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS9g					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS9g	08/19/21 16:15		0" - 6"	0.0	SM - silty sand	Dry	Brown	no	no	Silty sand with gravel and wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS9g, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS9h					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS9h	08/19/21 16:05		0" - 6"	0.0	SM - silty sand	Dry	Brown	no	no	Same as ss-9l



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS9i					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS9i	08/19/21 16:43		0" - 6"	0.0	SM - silty sand	Dry	Light brown	no	no	Silty sand



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS9j					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS9j	08/19/21 16:23		0" - 6"	0.0	SC - clayey sand	Moist	Brown	no	no	Clayey sand with sultans gravel. Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS9k					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS9k	08/19/21 16:19		0" - 6"	0.0	SC - clayey sand	Moist	Dark brown	no	no	Clayey sand with silt. Some gravel. Wood chips



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS9I					Sampler: Beth Morter					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS9I	08/19/21 16:01		0" - 6"	0.0	SM - silty sand	Moist	Brown	no	no	Silty sand with gravel and wood chips

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS9I, Interval: 0" - 6".



Blue North Mill Surface Soil Sampling

Location Information										
Location ID: SS-10					Sampler: Sam Berkelhammer					
Method: hand sampling					Subcontractor:					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
SS-10	08/20/21 08:00		0" - 6"		SM - silty sand	Dry	Light grey	no	no	

**Blue North Mill
Surface Soil Sampling**



Sample ID: SS-10, Interval: 0" - 6".



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-1					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
	08/18/21 07:33		0 - 8		GW - well-graded gravel, fine to coarse gravel	Moist	Olive gray	no	no	FILL. Gravel and cobble fill. About 50% angular basalt cobbles, 50% silt to gravel. Loose silt and sand.
TP-1(9')	08/18/21 08:50		8 - 10	5.6	GM - silty gravel	Wet	Olive brown	yes	no	FILL. Angular basalt cobbles and gravel fill. About 15% wood waste. Strips of wood, small branches. Layer of fabric at about 8 feet depth. Sandy silt matrix has dark grey to black staining. Organic odor
	08/18/21 08:21		10 - 13		GM - silty gravel	Wet	Gray brown	yes	yes	FILL. Basalt cobbles with sandy silt matrix. About 40% wood waste. Strips and pieces of logs Dark black staining.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 0 - 8.



Sample ID: TP-1(9'), Interval: 8 - 10.



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-2					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
	08/18/21 09:07		0 - 3		GW - well-graded gravel, fine to coarse gravel	Dry	Yellow brown	no	no	FILL. Angular basalt cobbles and gravel, with silty sand matrix.
	08/18/21 09:27		3 - 11	3.6	GM - silty gravel	Moist	Dark brown	no	no	FILL. Wood waste is about 20% by volume, starting at 3 feet depth. Strips and branches of wood. Matrix is silty sand. Organic odor. Fabric layer encountered at 11 feet depth
	08/18/21 10:02		11 - 12		GM - silty gravel	Wet	Dark gray	no	yes	FILL. Basalt cobbles and gravel, black silty sand matrix. Wet. Organic odor.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 0 - 3.



Sample ID: , Interval: 11 - 12.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 3 - 11.



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-3					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
	08/18/21 10:37		0 - 3		GW - well-graded gravel, fine to coarse gravel	Dry	Yellow brown to olive brown	no	no	FILL. Angular basalt cobbles and gravel, with silty sand matrix.
	08/18/21 10:43		3 - 8		GM - silty gravel	Moist	Dark gray to black	no	no	FILL. Same as above, but about 20% is wood waste in strips and six inch diameter logs. Silty sand matrix is dark. Organic odor
	08/18/21 11:03		8 - 10	0.5	GM - silty gravel	Wet	Yellow brown to olive brown	no	no	FILL. Same as above, but higher moisture content. Strips of wood waste comprise about 15%. Organic odor
	08/18/21 11:15		10 - 14		GM - silty gravel	Wet	Black	no	no	FILL. Large strips of wood, about 30-40%. Wet. Dark black color

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 0 - 3.



Sample ID: , Interval: 10 - 14.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 3 - 8.



Sample ID: , Interval: 8 - 10.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 8 - 10.



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-4					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
	08/18/21 11:37		0 - 3		GW - well-graded gravel, fine to coarse gravel	Moist	Olive brown	no	no	FILL. Angular basalt cobbles and gravel, silty sand matrix. Olive brown. Dry to moist
	08/18/21 11:41		3 - 6		GM - silty gravel	Moist	Dark brown to gray brown.	no	no	FILL. Basalt and alluvial cobbles, with about 15-25% strips of wood waste. Fabric layer at 6 feet depth. Organic odor.
TP-4(13')	08/18/21 12:10		6 - 13	2.1	GM - silty gravel	Moist	Dark grey	no	no	FILL. Similar to above, but fewer large cobbles and slightly darker

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 3 - 6.



Sample ID: TP-4(13'), Interval: 6 - 13.



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-5					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
	08/18/21 12:34		0 - 3		GW - well-graded gravel, fine to coarse gravel	Dry	Yellow brown	no	no	FILL. Angular basalt boulders, cobbles, and gravel, with a silty sand matrix. Water at about 3 feet. Excavator refusal at 3 feet. Test pit filled in

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 0 - 3.



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-6					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
TP-6(3)	08/18/21 14:00		0 - 3		SM - silty sand	Dry	Olive brown	no	no	FILL. Silty sand with basalt cobbles and gravel. Pieces of wood waste
	08/18/21 13:47		3 - 13		GM - silty gravel	Moist	Dark brown to dark grey	no	no	FILL. Basalt cobbles and gravel with about 20% wood waste fragments. Logs about 4 inch diameter at 9 feet depth.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: TP-6(3), Interval: 0 - 3.



Sample ID: , Interval: 3 - 13.



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-7					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
	08/18/21 14:20		0 - 2		SM - silty sand	Dry	Yellow brown, light brown	no	no	FILL. Silty sand, very loose
	08/18/21 14:21		2 - 10	1.3	GM - silty gravel	Moist	Dark brown	no	yes	FILL. Basalt cobbles and gravel with about 30% wood waste in long strips and short logs. Water encountered at 10 feet depth
	08/18/21 14:33		10 - 11		GM - silty gravel	Saturated	Black	no	no	Same as above, but saturated

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 10 - 11.



Sample ID: , Interval: 2 - 10.



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-8					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
	08/18/21 14:48		0 - 6		SM - silty sand	Dry	Yellow brown to light brown	no	no	FILL. Silty sand with gravel and basalt cobbles.
	08/18/21 14:53		6 - 7		SM - silty sand	Moist	Red brown	no	no	Silty sand with gravel and cobbles, about 15% wood waste
	08/18/21 14:55		7 - 11		GM - silty gravel	Moist	Dark brown	no	no	Silty gravel with sandy matrix. About 20% wood waste in long strips. Few larger logs about 8-inch in diameter. Water with oily sheen at 9 feet

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 0 - 6.



Sample ID: , Interval: 7 - 11.



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-9					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
	08/18/21 15:13		0 - 2		SM - silty sand	Dry	Yellow grey to light grey	no	no	FILL. Silty sand with gravel and basalt cobbles.
	08/18/21 15:17		2 - 10		SM - silty sand	Moist	Brown to dark brown	no	no	Silty sand with gravel and basalt cobbles. About 20% wood waste in long strips. Air filter encountered at 10 feet.
	08/18/21 15:30		10 - 11	3.3	GW - well-graded gravel, fine to coarse gravel	Saturate d	Blue grey	no	no	Well graded gravel with sand. Rounded clasts. Water is slowly filling pit
TP-9(13')	08/18/21 15:45		11 - 13		SW - well-graded sand, fine to coarse sand	Wet	Grey brown	no	no	Well graded sad with gravel.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 10 - 11.



Sample ID: TP-9(13'), Interval: 11 - 13.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 2 - 10.



Sample ID: , Interval: 2 - 10.



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-10					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
	08/18/21 15:57		0 - 1		SM - silty sand	Dry	Light grey	no	no	Silty sand with gravel. Pieces of wood waste, one 4 foot log
	08/18/21 15:58		1 - 8		GM - silty gravel	Moist	Dark brown	no	no	FILL. Silty gravel with cobble. About 20% wood waste in strips and cut logs. Water encountered at 8 feet.
	08/18/21 16:10		8 - 10		GM - silty gravel	Saturated	Dark brown	no	no	Same as above, but saturated soil. 6 inch diameter cut logs

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 0 - 1.



Sample ID: , Interval: 1 - 8.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 8 - 10.



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-11					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
	08/18/21 16:25		0 - 1		SM - silty sand	Dry	Light grey	no	no	Silty sand with gravel.
	08/19/21 07:53		1 - 9		SM - silty sand	Moist	Dark brown	no	no	FILL. Silty sand with with about 20-30% wood waste in strips and chips. Angular basalt and rounded alluvial cobbles. Some thin layers with more wood chips. Water encountered at 8 feet depth
TP-11(9)	08/19/21 08:25		9 - 10		CL - clay of low plasticity, lean clay	Wet	Grey to black	no	no	CL. Clayey silt. Low plasticity. Few lenses of coarse sand and gravels. Few larger pieces of wood. No odor
	08/19/21 08:28		10 - 12		SC - clayey sand	Moist	Olive grey to light grey	no	no	Clayey sand with silt. Medium dense sand.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 0 - 1.



Sample ID: , Interval: 1 - 9.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 10 - 12.



Sample ID: TP-11(9), Interval: 9 - 10.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: TP-11(9), Interval: 9 - 10.



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-12					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
	08/19/21 08:49		0 - 2		GM - silty gravel	Dry	Tan to light grey	no	no	FILL. Angular basalt cobbles with silty and sandy matrix
	08/19/21 08:51		2 - 3		GM - silty gravel	Moist	Dark grey	no	no	Dark grey silty gravel with basalt and alluvial cobbles. About 20-30% wood waste in strips and log pieces.
	08/19/21 08:56		3 - 5		SM - silty sand	Moist	Dark brown	no	no	Silty sand with rounded gravel. Very loose sand.
	08/19/21 09:01		5 - 9		CL - clay of low plasticity, lean clay	Moist	Grey to black	no	no	Silty clay with lenses of coarse sand and gravel
TP-12(10)	08/19/21 09:15		9 - 13		SM - silty sand	Wet	Blue gray	no	no	Silty sand with clay. Loose sand. Root traces

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 0 - 2.



Sample ID: , Interval: 2 - 3.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 3 - 5.



Sample ID: TP-12(10), Interval: 9 - 13.



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-13					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
	08/19/21 09:44		0 - 3		GM - silty gravel	Dry	Yellow brown to olive brown	no	no	FILL. Silty gravel with sandy matrix. Angular basalt and rounded alluvial cobbles. Few logs in top foot.
	08/19/21 09:53		3 - 4		GP - poorly graded gravel	Moist	Red brown	no	no	Gravel with sand, little fines. 8 inch diameter logs at 4 feet
	08/19/21 09:55		4 - 7	1.4	ML - silt	Moist	Dark grey	no	no	MH-ML. Clayey silt, loose. Trace fine sand. Mica fragments
	08/19/21 10:03		7 - 10		SM - silty sand	Moist	Blue gray	no	no	Silty sand with clay. Mica fragments. Some areas of fine brown sand.
	08/19/21 10:06		10 - 12.5		SM - silty sand	Wet	Gray and olive brown	no	no	Same as above but more areas of brown

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 4 - 7.



Sample ID: , Interval: 7 - 10.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: 0, Interval: 0 - 3.



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-14					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
TP-14(12)	08/19/21 11:10		0 - 13	1.8	GW - well-graded gravel, fine to coarse gravel	Moist	Dark brown to yellow brown	no	no	FILL. Angular basalt cobbles and boulders, and rounded alluvial cobbles. Wood waste is about 40-50% logs, wood strips and chips. Matrix is soft silty sand. Water encountered at 12 feet depth

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: TP-14(12), Interval: 0 - 13.



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-15					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
	08/19/21 11:35		0 - 2		GW - well-graded gravel, fine to coarse gravel	Dry	Light brown	no	no	FILL. Angular basalt cobbles and boulders in a silty sand matrix.
	08/19/21 11:37		2 - 4		GW - well-graded gravel, fine to coarse gravel	Moist	Grey	no	no	Same as above, but grey slightly more moisture. Trace wood waste
	08/19/21 11:41		4 - 8		GM - silty gravel	Moist	Olive brown	no	no	Rounded alluvial cobbles in a silty sandy matrix with some clay. Trace wood waste
	08/19/21 11:51		8 - 13		GM - silty gravel	Moist	Olive brown	no	no	Same as above, but large pieces of logs, strips of bark, and sawdust. Braided metal cable observed at about 10 feet
TP-15(14)	08/19/21 12:15		13 - 14	0.1	SM - silty sand	Wet	Blue grey	no	no	

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 2 - 4.



Sample ID: , Interval: 4 - 8.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 8 - 13.



Blue North Mill Test Pit Soil Sampling

Location Information										
Location ID: TP-16					Sampler: Sam Berkelhammer					
Method: Backhoe					Subcontractor: Jason Hendren					
Sample Information										
Sample ID	Date	Sample Comments	Interval	PID	USCS	Moisture	Color	Staining	Odor	Lithology Description
	08/19/21 12:44		0 - 1		GM - silty gravel	Dry	Medium brown	no	no	FILL. Angular basalt cobbles and rounded alluvial cobbles. About 10% wood chips
	08/19/21 12:47		1 - 3		GM - silty gravel	Moist	Medium grey	no	no	Same as above, but darker grey color. Layer of fabric at about 2.5 feet depth.
	08/19/21 12:50		3 - 4.5		GM - silty gravel	Moist	Dark brown	no	no	FILL. Silty gravel, with wood waste, and one large concrete piece at least 4 feet long.
	08/19/21 13:07		4.5 - 6		GM - silty gravel	Moist	Red brown	no	no	FILL. Silty gravel, with about 50% pieces of glassy slag in a silty sand matrix. Also metal cables, concrete pipe.
	08/19/21 13:11		6 - 14		SM - silty sand	Moist	Dark brown	no	no	FILL. Silty sand with gravel and cobbles. About 20% wood chips and bark strips, with some larger pieces.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 4.5 - 6.



Sample ID: , Interval: 4.5 - 6.

**Blue North Mill
Test Pit Soil Sampling**



Sample ID: , Interval: 6 - 14.



Project: Blue North Mill Log Yard, Subsurface Tes	Personnel: Sam Berkelhammer
Project #: 350.0515.002	
Date: 09/02/2021	

Groundwater Sampling and/or Development Field Form

Well ID/Sample Location: MW-1		Measuring Point (mp): BTOC	
Well Type:	Total Depth: 25.0	BGS	Casing Type: Sch 40 PVC
SWL before purging: 17.7	SWL post purge: 17.76		Well Diameter: 2.0
Well Locked: No	Cap/Lid: Yes		Monument Type:
Bollards: Yes	Monument Flag: No		Monument Tag: Yes
Purge & Sampling Equipment:	YSI		
Pump Depth:	Purging Method: Low Flow		Sampling Method: Low Flow
Pump Type: Bladder	1 Casing Vol: 10.93	L	Total Vol. Removed: -- L

Comment:

Instrument Calibration: See Calibration Sheet on: 09/02/2021

Well Evacuation & Monitoring Data

Time	DTW (BMP)	Purge Rate (L/min)	Purge Vol (L)	Temp (°C)	pH	SC (uS/cm)	DO (mg/L)	ORP (mV)	Turb (NTU)	Comments
Guideline/Goals	<0.3'	0.1-0.5	---	± 3%	± 0.1	± 3%	± 10% or 3 @ <0.5	± 10mV	± 10% or <10NTU	Note: Refer to SOP-12 A-C
08:51										Start Purge
08:55	17.72	0.25		16.5	6.81	1024.0	0.83	-95.3	34.0	
09:00	17.75	0.25		16.5	6.68	909.0	0.43	-94.3	56.51	
09:05	17.76	0.3		16.6	6.65	853.0	0.26	-99.2	49.29	
09:10	17.75	0.3		16.6	6.64	815.0	0.25	-91.1	34.38	
09:15	17.76	0.3		16.6	6.64	811.0	0.21	-96.9	29.41	
09:20	17.77	0.3		16.6	6.64	796.0	0.19	-98.7	22.7	

Sampling Data

Bottle Label	Sample Time	Sampling Parameter(s)	Preservative	Method	Other
MW-1	09:30				



Project: Blue North Mill Log Yard, Subsurface Tes	Personnel: Sam Berkelhammer
Project #: 350.0515.002	
Date: 09/02/2021	

Groundwater Sampling and/or Development Field Form

Well ID/Sample Location: MW-2	Measuring Point (mp): BTOC	
Well Type:	Total Depth: 25.0 BGS	Casing Type: Sch 40 PVC
SWL before purging: 20.78	SWL post purge: 20.80	Well Diameter: 2.0
Well Locked: No	Cap/Lid: Yes	Monument Type:
Bollards: Yes	Monument Flag: No	Monument Tag: Yes
Purge & Sampling Equipment:	YSI	
Pump Depth:	Purging Method: Low Flow	Sampling Method: Low Flow
Pump Type: Bladder	1 Casing Vol: 12.84 L	Total Vol. Removed: -- L

Comment:

Instrument Calibration: See Calibration Sheet on: 09/02/2021

Well Evacuation & Monitoring Data

Time	DTW (BMP)	Purge Rate (L/min)	Purge Vol (L)	Temp (°C)	pH	SC (uS/cm)	DO (mg/L)	ORP (mV)	Turb (NTU)	Comments
Guideline/Goals	<0.3'	0.1-0.5	---	± 3%	± 0.1	± 3%	± 10% or 3 @ <0.5	± 10mV	± 10% or <10NTU	Note: Refer to SOP-12 A-C
10:11										Start Purge
10:15	20.79	0.25		16.2	6.4	790.0	0.46	-51.4	54.98	
10:20	20.78	0.25		16.1	6.44	744.0	0.36	-58.2	45.62	
10:25	20.81	0.25		16.0	6.46	736.0	0.26	-66.8	33.67	
10:30	20.81	0.25		16.0	6.51	722.0	0.21	-72.0	30.46	
10:35	20.8	0.25		16.0	6.56	709.0	0.22	-76.8	26.46	
10:40	20.8	0.25		16.0	6.6	706.0	0.19	-80.3	23.05	
10:45	20.8	0.25		16.0	6.64	696.0	0.17	-83.5	19.3	

Sampling Data

Bottle Label	Sample Time	Sampling Parameter(s)	Preservative	Method	Other
MW-2	10:50				



Project: Blue North Mill Log Yard, Subsurface Tes	Personnel: Sam Berkelhammer
Project #: 350.0515.002	
Date: 09/01/2021	

Groundwater Sampling and/or Development Field Form

Well ID/Sample Location: MW-3	Measuring Point (mp): BTOC	
Well Type:	Total Depth: 25.0 BTOC	Casing Type: Sch 40 PVC
SWL before purging: 20.21	SWL post purge: 20.23	Well Diameter: 2.0
Well Locked: Yes	Cap/Lid: Yes	Monument Type:
Bollards: Yes	Monument Flag: No	Monument Tag: Yes
Purge & Sampling Equipment:	YSI	
Pump Depth:	Purging Method: Low Flow	Sampling Method: Low Flow
Pump Type: Bladder	1 Casing Vol: 12.49 L	Total Vol. Removed: -- L

Comment:

Instrument Calibration: See Calibration Sheet on: 09/01/2021

Well Evacuation & Monitoring Data

Time	DTW (BMP)	Purge Rate (L/min)	Purge Vol (L)	Temp (°C)	pH	SC (uS/cm)	DO (mg/L)	ORP (mV)	Turb (NTU)	Comments
Guideline/Goals	<0.3'	0.1-0.5	---	± 3%	± 0.1	± 3%	± 10% or 3 @ <0.5	± 10mV	± 10% or <10NTU	Note: Refer to SOP-12 A-C
13:32										Start Purge
13:35	20.25	0.25		15.4	6.69	556.7	0.83	28.4	49.0	
13:40	20.25	0.3		14.9	6.68	546.9	0.66	23.7	32.0	
13:45	20.25	0.35		14.7	6.7	538.6	0.65	22.8	48.55	
13:50	20.24	0.35		15.0	6.74	527.1	0.66	25.2	38.1	
13:55	20.25	0.35		14.5	6.82	514.2	0.74	26.3	22.4	
14:00	20.25	0.35		14.5	6.82	516.1	0.63	21.4	15.76	
14:05	20.25	0.35		14.6	6.78	515.4	0.61	20.9	10.13	
14:10	20.25	0.35		14.6	6.8	516.3	0.52	17.1	9.99	
14:15	20.26	0.35		14.5	6.84	517.0	0.49	15.2	7.79	
14:20	20.24	0.35		14.4	6.85	516.2	0.49	14.1	5.22	

Sampling Data

Bottle Label	Sample Time	Sampling Parameter(s)	Preservative	Method	Other
MW-3	14:30				



Project: Blue North Mill Log Yard, Subsurface Tes	Personnel: Sam Berkelhammer
Project #: 350.0515.002	
Date: 09/01/2021	

Groundwater Sampling and/or Development Field Form

Well ID/Sample Location: MW-4	Measuring Point (mp): BTOC	
Well Type:	Total Depth: 25.0 BGS	Casing Type: Sch 40 PVC
SWL before purging: 18.62	SWL post purge: 18.71	Well Diameter: 2.0
Well Locked: No	Cap/Lid: Yes	Monument Type:
Bollards: Yes	Monument Flag: No	Monument Tag: Yes
Purge & Sampling Equipment:	YSI	
Pump Depth:	Purging Method: Low Flow	Sampling Method: Low Flow
Pump Type: Bladder	1 Casing Vol: 11.50 L	Total Vol. Removed: -- L

Comment:

Instrument Calibration: See Calibration Sheet on: 09/01/2021

Well Evacuation & Monitoring Data

Time	DTW (BMP)	Purge Rate (L/min)	Purge Vol (L)	Temp (°C)	pH	SC (uS/cm)	DO (mg/L)	ORP (mV)	Turb (NTU)	Comments
Guideline/Goals	<0.3'	0.1-0.5	---	± 3%	± 0.1	± 3%	± 10% or 3 @ <0.5	± 10mV	± 10% or <10NTU	Note: Refer to SOP-12 A-C
15:50										Start Purge
15:50	18.68	0.35		17.4	6.72	624.0	8.05	227.1	57.4	
15:55	18.69	0.35		16.3	6.84	599.2	7.46	231.8	47.22	
16:00	18.65	0.35		19.6	6.75	591.0	6.4	244.7	23.88	
16:05	18.7	0.35		16.0	6.85	591.2	7.33	246.2	22.14	
16:10	18.71	0.35		15.8	6.9	583.0	7.26	251.0	19.51	
16:15	18.7	0.35		15.8	6.92	582.2	7.23	254.0	14.84	
16:20	18.72	0.35		15.7	6.94	581.6	7.03	256.2	14.0	

Sampling Data

Bottle Label	Sample Time	Sampling Parameter(s)	Preservative	Method	Other
MW-4	16:30				Duplicate MW-5

for Blue North Mill Log Yard, Subsurface Tes
on 09/01/2021

Equipment Information						
Equipment	Manufacturer	Model	Serial Number			
Multimeter	YSI	Pro series	18J10D135			
Turbidity Meter	LaMotte	2020We	9879-2218			
Calibrated By:						
Comments:						
Calibration Information						
Conductivity Calibration						
Time	Calibration Standard	Temperature (deg C)	Calib. Standard Temp Adjusted	Calib. Standard Temp Adjusted	Pre-Calibration Reading	Post-Calibration Reading (µs/cm)
10:52	1413	18.5	1248.0		1229	1251
Comments:						
ORP Calibration						
Time	Calibration Standard (mV)	Temperature (deg C)	Calib. Standard Temp Adjusted	Calib. Standard Temp Adjusted	Pre-Calibration Reading (mV)	Post-Calibration Reading (mV)
10:48	220	18.3		224.0	218.4	224
Comments:						
Dissolved Oxygen Calibration						
Time	Calibration Standard	Temperature (deg C)	Barometer (mmHG)	Pre-Calibration Reading (%)	Post-Calibration Reading (%)	Post-Calibration Reading (mg/L)
10:57		16.5	728.5	88.7	95.6	9.29
Comments:						
pH Calibration						
Time	Calibration Standard	Temp (deg C)	Temp Adjusted Calibration Standard	Instrument Reading (pH)	Post Calib. Reading (pH)	
10:38	4	18.5		4.64	3.91	
10:42	7	18.3		6.62	7.08	
10:45	10	18.4		10.09	10.17	
Comments:						
Turbidity Calibration						
Time	Calibration Standard	Pre-Calibration Turbidity (NTU)	Post Calibration Turbidity (NTU)	Comments		
10:54	0.0	0.0	0.0			
10:55	1.0	0.74	0.82			
10:56	10.0	9.87	9.89			
10:56	100.0	88.21	89.21			

for Blue North Mill Log Yard, Subsurface Tes
on 09/02/2021

Equipment Information						
Equipment	Manufacturer	Model	Serial Number			
Multi	YSI	Pro series				
Turbidity Meter	LaMotte	2020we				
Calibrated By:	SB					
Comments:						
Calibration Information						
Conductivity Calibration						
Time	Calibration Standard	Temperature (deg C)	Calib. Standard Temp Adjusted	Calib. Standard Temp Adjusted	Pre-Calibration Reading	Post-Calibration Reading (µs/cm)
08:24	1413	12.7	1117.0		1223	1116
Comments:						
ORP Calibration						
Time	Calibration Standard (mV)	Temperature (deg C)	Calib. Standard Temp Adjusted	Calib. Standard Temp Adjusted	Pre-Calibration Reading (mV)	Post-Calibration Reading (mV)
08:26	200	13.0	205	228.0	235.1	204.9
Comments:						
Dissolved Oxygen Calibration						
Time	Calibration Standard	Temperature (deg C)	Barometer (mmHG)	Pre-Calibration Reading (%)	Post-Calibration Reading (%)	Post-Calibration Reading (mg/L)
08:33		12.7	731.2	106.8	96.4	10.21
Comments:						
pH Calibration						
Time	Calibration Standard	Temp (deg C)	Temp Adjusted Calibration Standard	Instrument Reading (pH)	Post Calib. Reading (pH)	
08:15	4	12.4		4.31	3.98	
08:19	7	11.9		6.57	7.1	
08:21	10	12.7		10.19	10.14	
Comments:						
Turbidity Calibration						
Time	Calibration Standard	Pre-Calibration Turbidity (NTU)	Post Calibration Turbidity (NTU)	Comments		
08:29	0.0	-0.33	0.02			
08:30	1.0	0.24	0.82			
08:31	10.0	6.07	8.13			
08:32	100.0	56.18	57.33			

APPENDIX C

Borehole Logs, Well Construction Forms, &
Well Development Logs



PROJECT: Blue North Mill - Log Yard

PROJECT NO.: 350.05/5.002

SHT 1 OF 2

LOCATION OF BORING

DRILLING METHOD: Air Rotary

BORING NO.

TP-10 TP-9

BH-1/MW-1

BH-1

HAMMER WEIGHT: 140# DROP: 30"

LOGGED BY:

SAMPLER(S): 18" SPT: 1 Span 2' (2" diameter)

SB

DRILLING

TP-7 TP-8

BACKFILL MATERIAL: Sand, bentonite

START FINISH

WATER LEVEL 15' by 12.65'

TIME TIME

TIME 1300 1420

1230 1420

DATE 8-30-21

DATE DATE

CASING DEPTH

8/30/21 8-30-21

DATUM _____ ELEVATION _____

SAMPLER TYPE	INCHES DRIVEN RECOVERED	SAMPLE NO. DEPTH	OMPHID READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS:
				5		0		weeds, dirt, gravel
SPT 18"	8"		0.1	5/4	9	1	SM - silty sand w/ gravel. Dry. Yellow brown. Very loose. No odor or staining.	
						2		
						3		
						4		
				1		5		
SPT 18"	10"		0.7	2/2	4	6	Fill - about 80% wood chips, with sand matrix. Moist. Dark brown. No odor or staining.	
						7		
						8		
						9		
				4		10		
SPT 18"	12"	BH-1 (10-11)	2.7	7/12	19	11	Same as above	
						12		
						13	Clays of SM	
						14		
				16		15		
SPT 18"	10"	BH-1 (15-16)	0.1	35/50	80	16	SM - silty sand. not saturated. mica flakes. Med. gray. No odor. Pebbles black shoe	
						17		
SPT 18"	4"		C.C.	26/50		18	Same as above. Pebbles black shoe	
						19		
						20		

PROJECT: Blue North Mill - Log Yard

PROJECT NO.: 350.05/5.002

SHT 2 OF 2

LOCATION OF BORING

See page 1

DRILLING METHOD: Air Rotary

BORING NO.

BH-1/1004

HAMMER WEIGHT: DROP:

LOGGED BY:

SB

SAMPLER(S):

DRILLING

BACKFILL MATERIAL:

START FINISH

WATER LEVEL

TIME TIME

TIME

DATE

DATE DATE

CASING DEPTH

DATUM _____ ELEVATION _____

SAMPLER TYPE	INCHES DRIVEN RECOVERED	SAMPLE NO. DEPTH	OMPHID/ID READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS:
				4		20		
SPT 18	4		0.0	40	27	21		Slw-well graded sand w/ gravel. Saturated. Dark grey. Angular coarse gravel. No odor
						22		
SPT 11	4		0.1	29		23		GM - SW - sandy gravel to gravelly sand with silt. Saturated. Coarse, rounded gravel. Dark grey. No odor. Very little recovery
				50		24		
SPT 6	2			50		25		Same as above. Very little recovery
						6		
						7		
						8		
						9		
						0		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

PROJECT: Blue North Mill - Log Yard		PROJECT NO.: 350.0515.002	SHT 1 OF 2	
LOCATION OF BORING TP-4 TP-5 = BH-2		DRILLING METHOD: Air Rotary		BORING NO. BH2/MW-2
		HAMMER WEIGHT: 140#	DROP: 30"	LOGGED BY: SB
		SAMPLER(S): 2" split spoons		DRILLING
DATUM _____ ELEVATION _____		BACKFILL MATERIAL: sand & bentonite		START TIME
		WATER LEVEL: 16.5' bgs		FINISH TIME
		TIME: 1705		1520 1705
		DATE: 8.30.21		DATE DATE
		CASING DEPTH: 25' bgs		8.30.21

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	SAMPLE NO. / SAMPLE DEPTH	OMNIBID / READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS:
						0		Gravel fill
SPT 9	8		0.0	17		1		GW-GM: FILL Sandy gravel w/ silt. Dry, no odor or staining Light brown.
						2		
						3		
						4		
SPT 8	6		0.2	50		5		S.M. silty sand w/ gravel. About 20% wood waste. Dark brown. Moist. No odor or staining
						6		
						7		
						8		
						9		
SPT 18	4		0.1	7/6	13	10		same as above
						11		
						12		
						13		
						14		
SPT 18	10	BH-2 (15-16)	0.6	2/3	5	15		same as above
						16		
						17		
SPT 14	14		0.2	37/50		18		same as above top ~7in. wet. Bottom ~7in is G.M. sandy gravel
						19		
						20		

PROJECT: BlueNorth Mill - Log Yard		PROJECT NO.: 350.05/5.002	SHT 2 OF 2
LOCATION OF BORING		DRILLING METHOD:	BORING NO.
TP-4		HAMMER WEIGHT:	BH-2/MW-2
TP-5		DROP:	LOGGED BY:
BH-2		SAMPLER(S):	SB
DATUM		DRILLING	
ELEVATION		BACKFILL MATERIAL:	START FINISH
		WATER LEVEL	TIME TIME
		TIME	
		DATE	DATE DATE
		CASING DEPTH	

SAMPLER TYPE	INCHES DRIVEN INCHES RECOVERED	SAMPLE NO. DEPTH	OVERSAMPLING READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS:
SPT 18	7			4 27	47	20	II	GW - Sandy gravel. Rounded, coarse gravel. Saturated, no odor.
						21		
						22		
SPT 14	8			17 40	40	23	II	Same as above
				50		24		
SPT 10	6			21 50	50	25	II	
						26		
						27		
						8		
						9		
						0		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

PROJECT: <u>Blue North Mill - Log Yard</u>		PROJECT NO.: <u>350.0515.002</u>		SHT <u>1</u> OF <u>2</u>	
LOCATION OF BORING		DRILLING METHOD: <u>Air Rotary</u>		BORING NO. <u>BH-3/MW-3</u>	
		HAMMER WEIGHT: <u>140 #</u>	DROP: <u>30"</u>	LOGGED BY: <u>SB</u>	
		SAMPLER(S): <u>18" + 24" Split Spoons</u>		DRILLING	
		BACKFILL MATERIAL: <u>Sand + Bentonite</u>		START	FINISH
DATUM _____ ELEVATION _____		WATER LEVEL	<u>17.2' bgs</u>	TIME	TIME
		TIME	<u>8:30</u>	<u>210</u>	<u>830</u>
		DATE	<u>8-31-21</u>	DATE	DATE
		CASING DEPTH		<u>8-31-21</u>	<u>8-31-21</u>

SAMPLER TYPE	INCHES DRIVEN	INCHES RECOVERED	SAMPLE NO. DEPTH	OMPHID READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS: <u>Basalt cobbles fill, weeds</u>
						8	0		
SPT 18	11			0.2	8/15		1		SM - silty sand w/ gravel. Dry, med brown. No odor or staining. FILL
							2		
							3		
						13	4		
SPT 18	6			0.0	7/11	42	5		ML - clayey silt w/ coarse gravel. Moist. Gray. No odor
							6		SM - silty sand w/ gravel. Rounded coarse gravel. About 30% wood chips. Moist
						31	6		
SPT 18	9			0.4	18/		7		
SPT 18	15		BH-3 (8-9)		8/10	18	8		SM - silty sand. No gravel. Olive brown. No odor. Loose sand. Mike flakes. Moist
							9		
						5	10		
SPT 18	16			0.0	7/7	14	11		SM - SC - silty sand w/ clay. Very homogeneous fine sand. Olive brown. Moist. No odor
							12		
SPT 18	15			0.0	3/3		13		Same as above
						3/5	14		
						3	15		Same as above
SPT 18	16			0.0	5/5	10	16		
							17		
SPT 18	6		BH-3 (8-14)		3/23	26	18		Same as above in top 7 inches. - wet, light grey SW - sand w/ gravel bottom 9 in. Saturated. Yellow brown
							19		
							20		

PROJECT: <i>Blue North Mill - Log Yard</i>		PROJECT NO.: <i>350.09/5.002</i>	SHT <u>3</u> OF <u>2</u>
LOCATION OF BORING		DRILLING METHOD: <i>Air Rotary</i>	BORING NO. <i>BH-3/MU-3</i>
		HAMMER WEIGHT:	DROP:
DATUM _____ ELEVATION _____		SAMPLER(S):	LOGGED BY: <i>SB</i>
		BACKFILL MATERIAL:	DRILLING
		WATER LEVEL	START TIME
		TIME	FINISH TIME
		DATE	DATE
		CASING DEPTH	

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	SAMPLE NO. / SAMPLE DEPTH	OVM/RFID READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS:
				<i>4</i>		20		<i>Same as above. Very low recovery. Few rounded coarse gravels. Saturated</i>
<i>SPT</i>	<i>18 / 3</i>			<i>22 / 32</i>		21		
						22		
<i>SPT</i>	<i>9 / 0</i>			<i>22 / 50</i>		23	<i>0</i>	<i>No recovery</i>
						24		
						25		<i>No recovery</i>
<i>SPT</i>	<i>7 / C</i>			<i>50 / 6</i>		26		
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

PROJECT: <u>Blue North Mill - Log Yard</u>		PROJECT NO.: <u>350.0515.002</u>	SHT <u>1</u> OF <u>2</u>
LOCATION OF BORING		DRILLING METHOD: <u>Air Rotary</u>	BORING NO. <u>BH-4/MW-9</u>
		HAMMER WEIGHT: <u>140 #</u>	DROP: <u>30"</u>
		SAMPLER(S): <u>18" & 24" split spoons</u>	LOGGED BY: <u>SB</u>
		BACKFILL MATERIAL: <u>Sand + bentonite</u>	DRILLING
DATUM _____ ELEVATION _____		WATER LEVEL: <u>16.8</u>	START TIME: <u>920</u>
		DATE: <u>8-31-21</u>	FINISH TIME: <u>1050</u>
		CASING DEPTH	DATE: <u>8-31-21</u>
			DATE: <u>8-31-21</u>

SAMPLER TYPE	INCHES DRIVEN	INCHES RECOVERED	SAMPLE NO.	DEPTH	OMNIDIFID READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS:
								0		Basalt cobble fill
SPT	18	10			0.3	14	54	1		SM - Silty sand w/ gravel. Dry. Brown. No odor or staining. Pieces of plastic
SPT	18	8			0.0	22		3		Same as above. Dry.
						42		4		
						18		5		No recovery
SPT	18	0				21		6		
								7		
SPT	18	14	BH-4 (A)		0.1	5		8		SM - Silty sand, no gravel. Yellow brown. Moist. No odor. Loose sand
						7		9		
						12		10		
SPT	18	8			0.2	27	76	11		SW - Sand w/ gravel. Dry. No odor. Yellow-brown.
								12		
SPT	11	5				30	50	13		Same as above. Very low recovery
								14		
						18		15		
SPT	18	8			0.1	30	30	16		SW - Sand w/ gravel. Saturated. Rounded coarse gravel. Pieces of granite + basalt.
								17		
SPT	14	6			0.1	9	24	18		
							50	19		
								20		

~~SB~~



PROJECT:

PROJECT NO.:

SHT 2 OF 2

LOCATION OF BORING

DRILLING METHOD:

BORING NO.
BH-4/MW-4

HAMMER WEIGHT:

DROP:

LOGGED BY:

SAMPLER(S):

DRILLING

BACKFILL MATERIAL:

START

FINISH

WATER LEVEL

TIME

DATE

CASING DEPTH

DATUM _____ ELEVATION _____

SAMPLER TYPE	INCHES DRIVEN RECOVERED	SAMPLE NO. DEPTH	OMMIDIFID READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS:
				15		20		Same as above, v. low recovery
SPT 8	4		0.1	50		21		
						22		Same as above
SPT 5	11		0.0	50		23		
						24		SW - well graded sand, no silt or gravel. Saturated. Yellow brown. Med. dense sand. No odor
SPT 10	10	BH-4 (25)	0.2	50		26		
						7		
						8		
						9		
						0		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

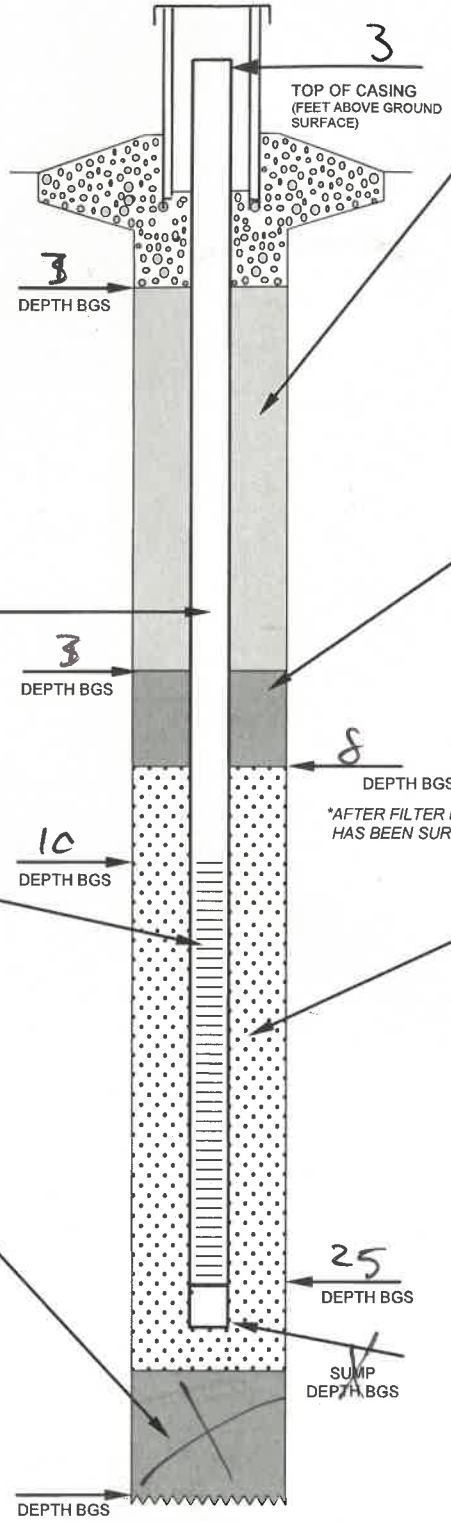
WELL INSTALLATION RECORD

WELL
 WELL NO.: MW-1
 PROJECT: 350.05/5.002
 SITE: Blue North Mill - Logford
 BOREHOLE NO.: BH-1
 WELL PERMIT NO.: _____
 TOC TO BOTTOM OF WELL: _____

SURFACE COMPLETION
 FLUSH MOUNT
 ABOVE GROUND WITH BUMPER POST
 CONCRETE ASPHALT

SURVEY INFORMATION
 TOC ELEVATION: _____
 GROUND SURFACE ELEVATION: _____
 NORTHING: _____
 EASTING: _____

DRILLING INFORMATION
 DRILLING BEGAN:
 DATE: 8-30-21 TIME: 1230
 WELL INSTALLATION BEGAN:
 DATE: 8-30-21 TIME: 1419
 WELL INSTALLATION FINISHED:
 DATE: 8-30-21 TIME: 1500
 DRILLING CO.: Environments West
 DRILLER: Brent Johnson
 LICENSE: _____
 DRILL RIG: _____
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY
 OTHER: _____
 DIAMETER OF AUGERS:
 ID: _____ OD: 6 inch



WELL CASING
 SCHEDULE 40 PVC
 OTHER: _____
 PRODUCT: 10-slat
 MFG. BY: _____
 CASING DIAMETER:
 ID: _____ OD: 2 inch
 LENGTH OF CASING (TOTAL): _____

**NOTE: IF CASING SEGMENTS OF VARYING LENGTH ARE USED, RECORD ALL SEGMENT LENGTHS ON BACK*

WELL SCREEN
 SCHEDULE 40 PVC
 OTHER: _____
 PRODUCT: 10-slat
 MFG. BY: _____
 CASING DIAMETER:
 ID: _____ OD: 2 inch

BOREHOLE BACKFILL
 AMOUNT CALCULATED: N/A
 AMOUNT USED: _____
 BENTONITE CHIPS, SIZE: _____
 BENTONITE PELLETS, SIZE: _____
 SLURRY: _____
 FORMATION COLLAPSE: _____
 OTHER: _____

ANNULAR SEAL
 VOLUME CALCULATED: N/A
 AMOUNT USED: _____
 GROUT FORMULA (PERCENTAGES)
 PORTLAND CEMENT: _____
 BENTONITE: _____
 WATER: _____
 PREPARED MIX
 PRODUCT: _____

BENTONITE SEAL
 VOLUME CALCULATED: _____
 AMOUNT USED: 2 bags
 PELLETS, SIZE: _____
 CHIPS, SIZE: 3/8"
 OTHER: _____
 PRODUCT: Baroid Halex
 MFG. BY: _____

FILTER PACK
 PREPACKED FILTER
 VOLUME CALCULATED: _____
 AMOUNT USED: 10 bags
 SAND, SIZE: 20/40
 PRODUCT: Silica sand
 MFG. BY: Collegiate
 METHOD INSTALLED:
 POURED TREMIE
 OTHER: _____
 WATER LEVEL: _____
 (BTOC AFTER WELL INSTALLATION)

CENTRALIZERS USED?
 YES NO
 CENTRALIZER DEPTHS: _____

BGS - BELOW GROUND SURFACE
 BTOC - BELOW TOP OF CASING
 N/A - NOT APPLICABLE
 NR - NOT RECORDED
 TOC - TOP OF CASING

WELL INSTALLATION RECORD

WELL
 WELL NO.: MW-2
 PROJECT: 350.0515.002
 SITE: Blue North Mill - Log Yard
 BOREHOLE NO.: B4-2
 WELL PERMIT NO.: _____
 TOC TO BOTTOM OF WELL: _____

SURFACE COMPLETION
 FLUSH MOUNT
 ABOVE GROUND WITH BUMPER POST
 CONCRETE ASPHALT

SURVEY INFORMATION
 TOC ELEVATION: _____
 GROUND SURFACE ELEVATION: _____
 NORTHING: _____

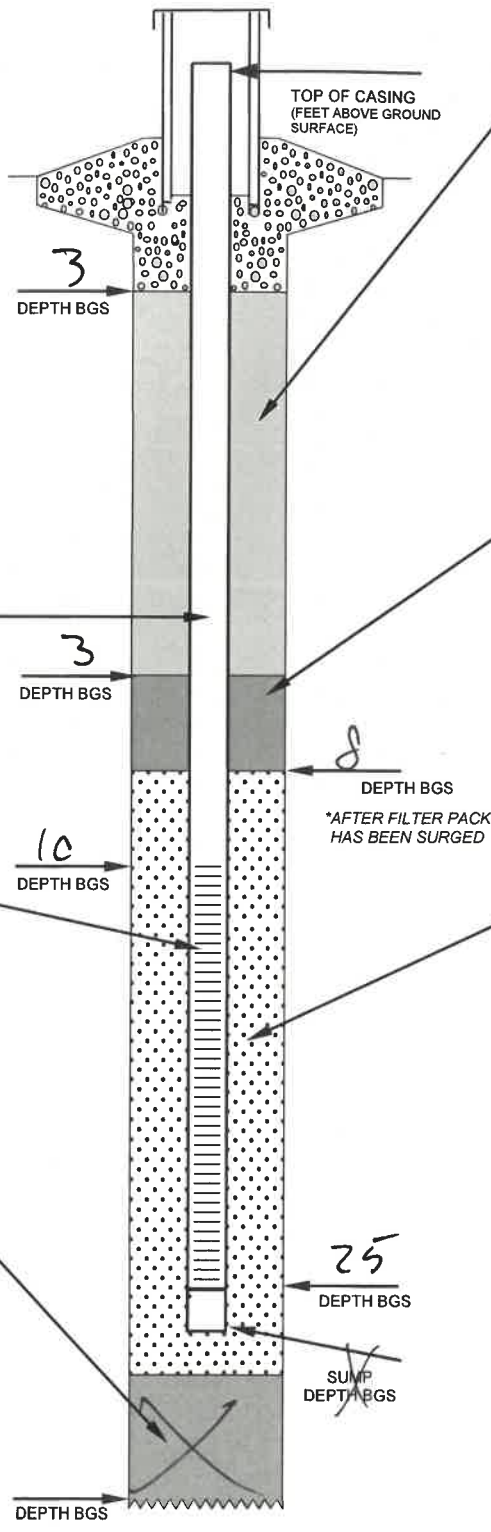
DRILLING INFORMATION
 DRILLING BEGAN:
 DATE: 8.30.21 TIME: 1520
 WELL INSTALLATION BEGAN:
 DATE: 8.30.21 TIME: 1715
 WELL INSTALLATION FINISHED:
 DATE: _____ TIME: _____
 DRILLING CO.: Equicomment/West
 DRILLER: Brent Johnson
 LICENSE: _____
 DRILL RIG: _____
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY
 OTHER: _____
 DIAMETER OF AUGERS:
 ID: _____ OD: 6"

WELL CASING
 SCHEDULE 40 PVC
 OTHER: _____
 PRODUCT: _____
 MFG. BY: _____
 CASING DIAMETER:
 ID: _____ OD: 2"
 LENGTH OF CASING (TOTAL): _____

*NOTE: IF CASING SEGMENTS OF VARYING LENGTH ARE USED, RECORD ALL SEGMENT LENGTHS ON BACK

WELL SCREEN
 SCHEDULE 40 PVC
 OTHER: _____
 PRODUCT: 10-slot
 MFG. BY: _____
 CASING DIAMETER:
 ID: _____ OD: 2"

BOREHOLE BACKFILL
 AMOUNT CALCULATED: N/A
 AMOUNT USED: _____
 BENTONITE CHIPS, SIZE: _____
 BENTONITE PELLETS, SIZE: _____
 SLURRY: _____
 FORMATION COLLAPSE: _____
 OTHER: _____



ANNULAR SEAL
 VOLUME CALCULATED: _____
 AMOUNT USED: _____
 GROUT FORMULA (PERCENTAGES)
 PORTLAND CEMENT: _____
 BENTONITE: _____
 WATER: _____
 PREPARED MIX
 PRODUCT: _____

BENTONITE SEAL
 VOLUME CALCULATED: _____
 AMOUNT USED: _____
 PELLETS, SIZE: _____
 CHIPS, SIZE: 3/8"
 OTHER: _____
 PRODUCT: David Holopus
 MFG. BY: _____

FILTER PACK
 PREPACKED FILTER
 VOLUME CALCULATED: _____
 AMOUNT USED: _____
 SAND, SIZE: 20/40
 PRODUCT: Silica sand
 MFG. BY: Gilbrand
 METHOD INSTALLED:
 POURED TREMIE
 OTHER: _____
 WATER LEVEL: _____
(BTOC AFTER WELL INSTALLATION)

CENTRALIZERS USED?
 YES NO;
 CENTRALIZER DEPTHS: _____

BGS – BELOW GROUND SURFACE
 BTOC – BELOW TOP OF CASING
 N/A – NOT APPLICABLE
 NR – NOT RECORDED
 TOC – TOP OF CASING

WELL INSTALLATION RECORD

WELL
 WELL NO.: MW-3
 PROJECT: 350.05/5.002
 SITE: Blue North Mill-log Yard
 BOREHOLE NO.: BH-3
 WELL PERMIT NO.: _____
 TOC TO BOTTOM OF WELL: _____

DRILLING INFORMATION

DRILLING BEGAN:
 DATE: 8.31.21 TIME: 7:10
 WELL INSTALLATION BEGAN:
 DATE: 8.31.21 TIME: 8:30
 WELL INSTALLATION FINISHED:
 DATE: 8.31.21 TIME: 9:00
 DRILLING CO.: Environmental West
 DRILLER: Bruce Johnson

LICENSE: _____
 DRILL RIG: _____
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY
 OTHER: _____
 DIAMETER OF AUGERS:
 ID: _____ OD: 6"

WELL CASING

SCHEDULE 40 PVC
 OTHER: _____
 PRODUCT: _____
 MFG. BY: _____
 CASING DIAMETER:
 ID: _____ OD: 2"
 LENGTH OF CASING (TOTAL): _____

*NOTE: IF CASING SEGMENTS OF VARYING LENGTH ARE USED, RECORD ALL SEGMENT LENGTHS ON BACK

WELL SCREEN

SCHEDULE 40 PVC
 OTHER: _____
 PRODUCT: 10-slot
 MFG. BY: _____
 CASING DIAMETER:
 ID: _____ OD: 2"

BOREHOLE BACKFILL

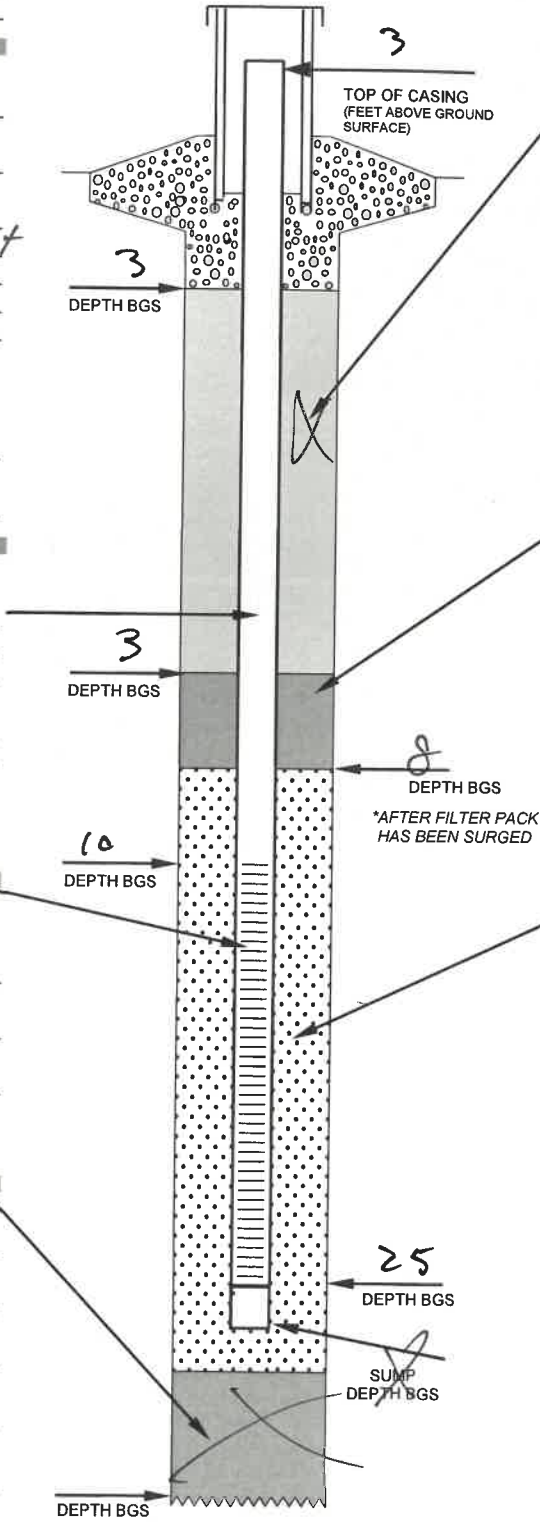
AMOUNT CALCULATED: N/A
 AMOUNT USED: _____
 BENTONITE CHIPS, SIZE: _____
 BENTONITE PELLETS, SIZE: _____
 SLURRY: _____
 FORMATION COLLAPSE: _____
 OTHER: _____

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND WITH BUMPER POST
 CONCRETE ASPHALT

SURVEY INFORMATION

TOC ELEVATION: _____
 GROUND SURFACE ELEVATION: _____
 NORTHING: _____
 EASTING: _____



ANNULAR SEAL

VOLUME CALCULATED: N/A
 AMOUNT USED: _____
 GROUT FORMULA (PERCENTAGES)
 PORTLAND CEMENT: _____
 BENTONITE: _____
 WATER: _____

BENTONITE SEAL

VOLUME CALCULATED: _____
 AMOUNT USED: 3 bags
 PELLETS, SIZE: _____
 CHIPS, SIZE: 3/8"
 OTHER: _____

FILTER PACK

PREPACKED FILTER
 VOLUME CALCULATED: _____
 AMOUNT USED: 10 bags
 SAND, SIZE: 20/40
 PRODUCT: silica sand
 MFG. BY: Galibrand
 METHOD INSTALLED:
 POURED TREMIE
 OTHER: _____

WATER LEVEL: _____
(BTOC AFTER WELL INSTALLATION)

CENTRALIZERS USED?

YES NO;
 CENTRALIZER DEPTHS: _____

BGS - BELOW GROUND SURFACE
 BTOC - BELOW TOP OF CASING
 N/A - NOT APPLICABLE
 NR - NOT RECORDED
 TOC - TOP OF CASING

WELL INSTALLATION RECORD

WELL
 WELL NO.: MW-4
 PROJECT: 350.0515.002
 SITE: Blue North Mill - Log Xrd
 BOREHOLE NO.: DH-4
 WELL PERMIT NO.: _____
 TOC TO BOTTOM OF WELL: _____

DRILLING INFORMATION
 DRILLING BEGAN:
 DATE: 8.31.21 TIME: 920
 WELL INSTALLATION BEGAN:
 DATE: 8.31.21 TIME: 1100
 WELL INSTALLATION FINISHED:
 DATE: 8.31.21 TIME: 1140
 DRILLING CO.: Environmental West
 DRILLER: Brent Johnson
 LICENSE: _____
 DRILL RIG: _____
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY
 OTHER: _____
 DIAMETER OF AUGERS:
 ID: _____ OD: 6"

WELL CASING
 SCHEDULE 40 PVC
 OTHER: _____
 PRODUCT: _____
 MFG. BY: _____
 CASING DIAMETER:
 ID: _____ OD: 2"
 LENGTH OF CASING (TOTAL): _____

*NOTE: IF CASING SEGMENTS OF VARYING LENGTH ARE USED, RECORD ALL SEGMENT LENGTHS ON BACK

WELL SCREEN
 SCHEDULE 40 PVC
 OTHER: _____
 PRODUCT: 10-slot
 MFG. BY: _____
 CASING DIAMETER:
 ID: _____ OD: 2"

BOREHOLE BACKFILL
 AMOUNT CALCULATED: NA
 AMOUNT USED: _____
 BENTONITE CHIPS, SIZE: _____
 BENTONITE PELLETS, SIZE: _____
 SLURRY: _____
 FORMATION COLLAPSE: _____
 OTHER: _____

SURFACE COMPLETION
 FLUSH MOUNT
 ABOVE GROUND WITH BUMPER POST
 CONCRETE ASPHALT

SURVEY INFORMATION
 TOC ELEVATION: _____
 GROUND SURFACE ELEVATION: _____
 NORTHING: _____

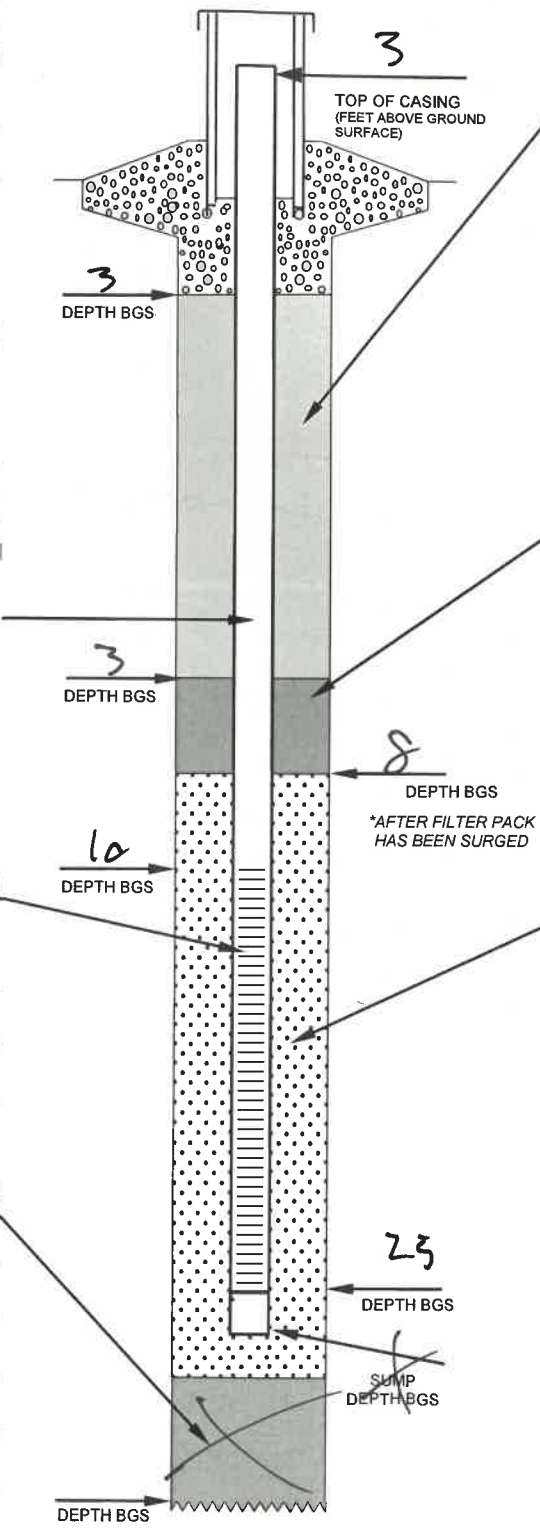
ANNULAR SEAL
 EASTING: _____
 VOLUME CALCULATED: N/A
 AMOUNT USED: _____
 GROUT FORMULA (PERCENTAGES)
 PORTLAND CEMENT: _____
 BENTONITE: _____
 WATER: _____
 PREPARED MIX PRODUCT: _____

BENTONITE SEAL
 VOLUME CALCULATED: _____
 AMOUNT USED: _____
 PELLETS, SIZE: _____
 CHIPS, SIZE: 3/8"
 OTHER: _____
 PRODUCT: Barrod Holeplus
 MFG. BY: _____

FILTER PACK
 PREPACKED FILTER
 VOLUME CALCULATED: _____
 AMOUNT USED: _____
 SAND, SIZE: 20/40
 PRODUCT: Silica Sand
 MFG. BY: Gullbrand
 METHOD INSTALLED:
 POURED TREMIE
 OTHER: _____
 WATER LEVEL: _____
(BTOC AFTER WELL INSTALLATION)

CENTRALIZERS USED?
 YES NO;
 CENTRALIZER DEPTHS: _____

BGS - BELOW GROUND SURFACE
 BTOC - BELOW TOP OF CASING
 N/A - NOT APPLICABLE
 NR - NOT RECORDED
 TOC - TOP OF CASING





Project: Blue North Mill - Log Yard
 Project # 350.0515.002
 Field Staff: S. Barkelhammer

Well ID
 MW-1

Start Date/Time: 8/30/21
 Measuring Point (mp): btoe (+/- GS)
 Initial Depth to Water: 15.12 (bgs/bmp)
 Initial Total Depth of well: 25.25 (bgs /
 Casing Diameter and Material: 2" Sch. 40 PVC
 Screen Type and Slot Size: PVC 10-slot
 Borehole Diameter: 6"
 Screened Interval (to - from): 10-25 (bgs / bmp)
 Well Development Method(s): Surging, bailing, Pump w/ submersible

Well Volume Data

Length of Saturated Casing = (Total depth) - (Initial Depth to Water): 10.13 (ft)
 Well Casing Volume per foot of saturated casing: 2" PVC = 0.1631 gal/ft / 4" PVC = 0.66 gal/ft / 6" PVC = 1.47 gal/ft
 1 Casing Volume: 1.652 (gal) 10 Casing Volumes: 16.52 (gal)

Well Development Data

Time	DTW (bmp / bgs)	Purge Rate (gpm)	Cum. Purge Vol. (gal)	Purge Method	Cond. (μ s/cm)	pH	Turbidity (NTU)	Comments or Visual Observations
					(if applicable)			
								Measurements are made from top of casing before stickup casing was completed
1450				Start Surging				
1507	15.2			Start bailing				
1523	15.28		5					Very turbid water
1530				Start Pumping w/ submersible pump				
1536	15.33		10				1766 AU	
1544	15.33		15				1867 AU	
1553	15.35		20				1034 AU	
1556	15.58						79 NTU	
1600	15.6		25				39 NTU	

General Well Development Goal: Develop well initially using a surge block, then develop using submersible pump until discharge has a turbidity below 50 NTU, or 10 casing volumes are removed; whichever occurs first.

Final Purge Data

End Date/Time: 8.31.21 1600
 Total Casing Volumes Purged: 15.1
 Final Depth to Water: 15.34' btoe
 Final Total Depth of well: 25.35 (bgs / bmp)



Project: *Blue North Mill*
 Project # *350.05/5.002*
 Field Staff: *S. Berklhammer*

Well ID
MW-2

Start Date/Time: *8.31.21 1640* Measuring Point (mp): *btc* (+/- GS)
 Initial Depth to Water: *20.71* (bgs/bmp) Initial Total Depth of well: *28.05' btc* (bgs /
 Casing Diameter and Material: *2" Sch. 40 PVC* Screen Type and Slot Size: *10-slot PVC*
 Borehole Diameter: *6"* Screened Interval (to - from): *10-25'* (bgs / bmp)

Well Development Method(s): *Surging, bailing, pumping*

Well Volume Data

Length of Saturated Casing = (Total depth) - (Initial Depth to Water): *7.34* (ft)
 Well Casing Volume per foot of saturated casing: *2" PVC = 0.1631 gal/ft / 4" PVC = 0.66 gal/ft / 6" PVC = 1.47 gal/ft*
 1 Casing Volume: *1.197* (gal) 10 Casing Volumes: *11.97* (gal)

Well Development Data

Time	DTW (bmp / bgs)	Purge Rate (gpm)	Cum. Purge Vol. (gal)	Purge Method	Cond. (µs/cm)	pH	Turbidity (NTU)	Comments or Visual Observations
					(if applicable)			
<i>1650</i>								<i>Start surging for 15 minutes</i>
<i>1706</i>	<i>20.79</i>							<i>Start bailing</i>
<i>1721</i>	<i>20.83</i>							<i>Submersible pump stops working. Driller brings theirs</i>
<i>1800</i>	<i>20.96</i>		<i>20</i>					<i>Water cleared some</i>

General Well Development Goal: Develop well initially using a surge block, then develop using submersible pump until discharge has a turbidity below 50 NTU, or 10 casing volumes are removed; whichever occurs first.

Final Purge Data

End Date/Time: *8.31.21 1800* Total Casing Volumes Purged: *16.7*
 Final Depth to Water: *20.96* Final Total Depth of well: *28.03* (bgs / bmp)



Project: Blue North Mill - Log Yard Well ID: MW-3
 Project #: 350.0515.002
 Field Staff: S. Bertelmann

Start Date/Time: 8.31.21 1205 Measuring Point (mp): b70c (+/- GS)
 Initial Depth to Water: 17.63' (bgs/bmp) Initial Total Depth of well: 25.08' bmp (bgs /
 Casing Diameter and Material: 2" Sch. 40 PVC Screen Type and Slot Size: PVC 10-slot
 Borehole Diameter: 6" Screened Interval (to - from): 10-25 ft (bgs / bmp)

Well Development Method(s): Surging, bailing, Pumping

Well Volume Data

Length of Saturated Casing = (Total depth) - (Initial Depth to Water): 7.45 (ft)
 Well Casing Volume per foot of saturated casing: 2" PVC = 0.1631 gal/ft / 4" PVC = 0.66 gal/ft / 6" PVC = 1.47 gal/ft
 1 Casing Volume: 1.215 (gal) 10 Casing Volumes: 12.15 (gal)

Well Development Data

Time	DTW (bmp / bgs)	Purge Rate (gpm)	Cum. Purge Vol. (gal)	Purge Method	Cond. (μ s/cm)	pH	Turbidity (NTU)	Comments or Visual Observations
					(if applicable)			
	Measurements made from top of casing before stripping casing is complete							
1210				Start surging w/ surge block for 15 minutes				
1230	17.64			start bailing				
1245	17.62		5	Bailing				very turbid water
1257				Start pumping w/ submersible pump				
1302	17.63		10				173 AU	
1313	17.62		15				1105 AU	

General Well Development Goal: Develop well initially using a surge block, then develop using submersible pump until discharge has a turbidity below 50 NTU, or 10 casing volumes are removed; whichever occurs first.

Final Purge Data

End Date/Time: 8.31.21 1313 Total Casing Volumes Purged: 12.3
 Final Depth to Water: 17.64 Final Total Depth of well: 25.04 (bgs / bmp)



Project: Blue North Mill - Log Yard
 Project # 350.0515.002
 Field Staff: S. Berkelhammer

Well ID: MW-4

Start Date/Time: 8.31.21 1325 Measuring Point (mp): btac (+/- GS)
 Initial Depth to Water: 18.59' (bgs/bmp) Initial Total Depth of well: 27.98 (bgs /
 Casing Diameter and Material: 2" Sch. 40 PVC Screen Type and Slot Size: 10-slot PVC
 Borehole Diameter: 6" Screened Interval (to - from): 10-25 (bgs / bmp)
 Well Development Method(s): surging, basing, pumping

Well Volume Data

Length of Saturated Casing = (Total depth) - (Initial Depth to Water): 9.39 (ft)
 Well Casing Volume per foot of saturated casing: 2" PVC = 0.1631 gal/ft / 4" PVC = 0.66 gal/ft / 6" PVC = 1.47 gal/ft
 1 Casing Volume: 1.531 (gal) 10 Casing Volumes: 15.31 (gal)

Well Development Data

Time	DTW (bmp /bgs)	Purge Rate (gpm)	Cum. Purge Vol. (gal)	Purge Method	Cond. (μ s/cm)	pH	Turbidity (NTU)	Comments or Visual Observations
					(if applicable)			
1333								
1349	18.59'							Start surging for 15 minutes
1350								
1400	18.73'							Start basing
1408			5					
1414	18.8'		10					Start pumping with submersible pump Very turbid water
1422	19.34'		15					1075 AU
1426	19.41'		20					668 AU 110 NTU

General Well Development Goal: Develop well initially using a surge block, then develop using submersible pump until discharge has a turbidity below 50 NTU, or 10 casing volumes are removed; whichever occurs first.

Final Purge Data

End Date/Time: 8.31.21 1430 Total Casing Volumes Purged: 13
 Final Depth to Water: 18.67' btac Final Total Depth of well: 27.85 (bgs (bmp))

APPENDIX D

Laboratory Results & Data Validation Summaries

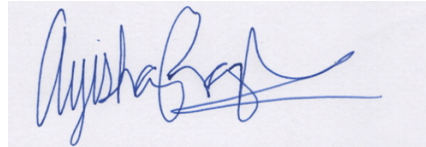


NewFields - Missoula MT

Sample Delivery Group: L1394946
Samples Received: 08/25/2021
Project Number: 350.0515.001
Description: Blue North Mill

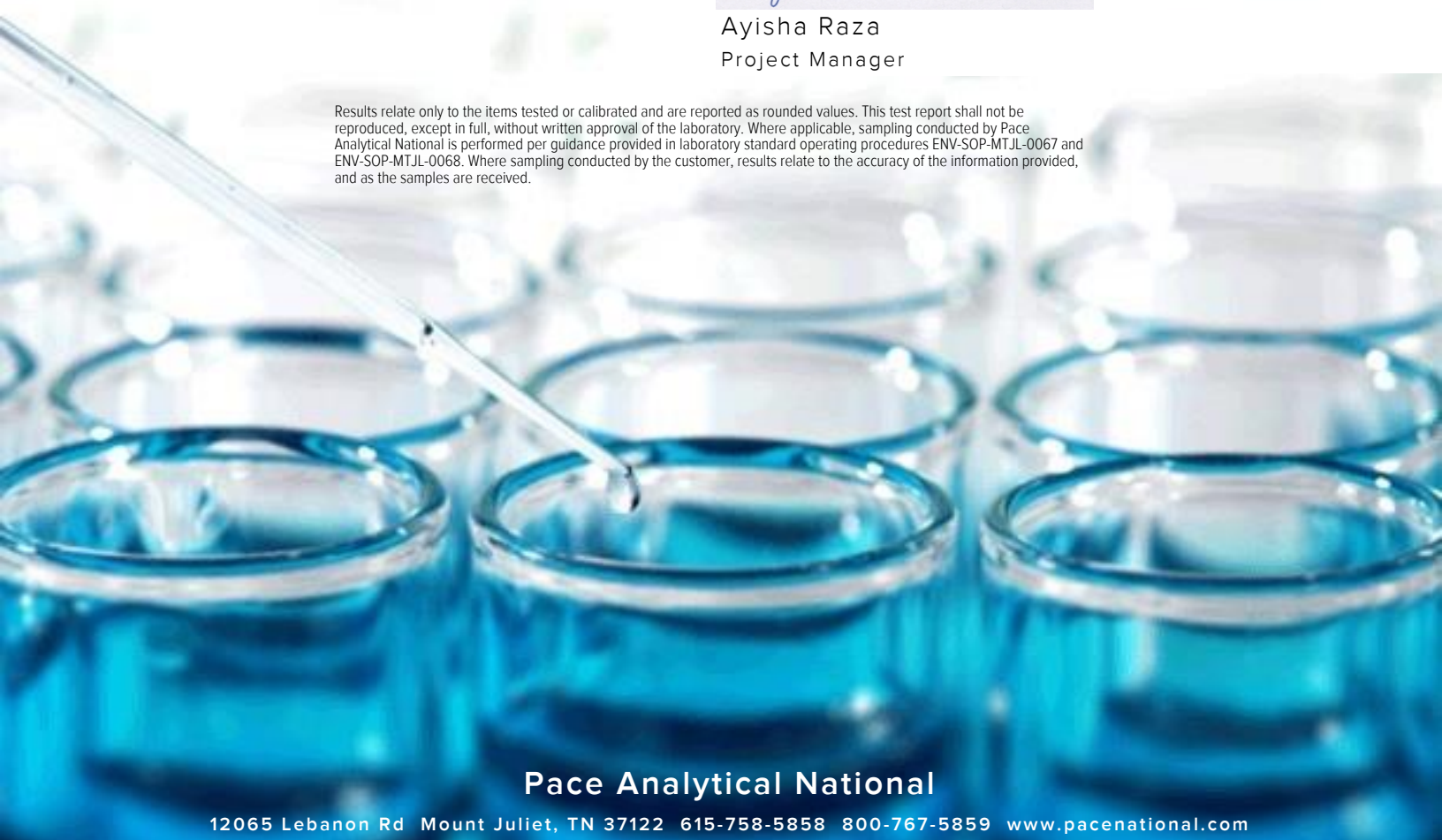
Report To: Wilhelm Welzebach
700 SW Higgins
Suite 15
Missoula, MT 59803

Entire Report Reviewed By:



Ayisha Raza
Project Manager










Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1	
Tc: Table of Contents	2	
Ss: Sample Summary	3	
Cn: Case Narrative	6	
Sr: Sample Results	7	
SS-1 L1394946-01	7	
SS-2 L1394946-02	9	
SS-4 L1394946-03	11	
SS-3 L1394946-04	13	
SS-6 L1394946-05	15	
SS-8 L1394946-06	17	
SS-5 L1394946-07	19	
SS-9 L1394946-08	21	
SS-7 L1394946-09	23	
SS-10 L1394946-10	25	
SS-ERB L1394946-11	26	
TRIP BLANK L1394946-12	29	
Qc: Quality Control Summary	31	
Total Solids by Method 2540 G-2011	31	
Mercury by Method 7470A	34	
Mercury by Method 7471A	35	
Metals (ICP) by Method 6010B	36	
Metals (ICPMS) by Method 6020	37	
Volatile Organic Compounds (GC) by Method NWTPHGX	38	
Volatile Organic Compounds (GC/MS) by Method 8260B	39	
EDB / DBCP by Method 8011	44	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	45	
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	46	
Polychlorinated Biphenyls (GC) by Method 8082	47	
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	49	
Gl: Glossary of Terms	55	
Al: Accreditations & Locations	56	
Sc: Sample Chain of Custody	57	

SAMPLE SUMMARY

SS-1 L1394946-01 Solid

Collected by: Sam B. Collected date/time: 08/18/21 12:05 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732484	1	09/01/21 14:29	09/01/21 14:37	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1730119	1	08/27/21 14:44	08/28/21 14:01	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730506	1	08/27/21 07:34	09/01/21 03:19	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1731200	25	08/27/21 21:48	08/30/21 20:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	1	09/01/21 00:32	09/02/21 22:27	JDG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1733328	1	09/01/21 19:14	09/02/21 01:38	HLJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1731869	1	08/31/21 15:24	08/31/21 23:55	AAT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SS-2 L1394946-02 Solid

Collected by: Sam B. Collected date/time: 08/18/21 15:20 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732527	1	08/31/21 14:11	08/31/21 14:17	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730119	1	08/27/21 14:44	08/28/21 14:04	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730506	1	08/27/21 07:34	09/01/21 03:22	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1731200	25	08/27/21 21:48	08/30/21 23:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	1	09/01/21 00:32	09/01/21 14:13	CAG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1733328	1	09/01/21 19:14	09/02/21 01:48	HLJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1731869	1	08/31/21 15:24	08/31/21 23:19	AAT	Mt. Juliet, TN

SS-4 L1394946-03 Solid

Collected by: Sam B. Collected date/time: 08/18/21 17:30 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732527	1	08/31/21 14:11	08/31/21 14:17	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730119	1	08/27/21 14:44	08/28/21 14:06	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730506	1	08/27/21 07:34	09/01/21 03:30	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1731200	25	08/27/21 21:48	08/30/21 23:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	1	09/01/21 00:32	09/01/21 15:24	TJD	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1733328	1	09/01/21 19:14	09/02/21 01:58	HLJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1731869	1	08/31/21 15:24	08/31/21 23:37	AAT	Mt. Juliet, TN

SS-3 L1394946-04 Solid

Collected by: Sam B. Collected date/time: 08/19/21 09:40 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732527	1	08/31/21 14:11	08/31/21 14:17	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730119	1	08/27/21 14:44	08/28/21 14:09	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730506	1	08/27/21 07:34	09/01/21 03:33	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1731200	25	08/27/21 21:48	08/31/21 00:02	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	1	09/01/21 00:32	09/01/21 16:20	TJD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	2	09/01/21 00:32	09/03/21 01:58	JDG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1733328	1	09/01/21 19:14	09/02/21 02:07	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1732504	1	08/31/21 19:19	09/01/21 02:40	AAT	Mt. Juliet, TN

SS-6 L1394946-05 Solid

Collected by: Sam B. Collected date/time: 08/19/21 12:00 Received date/time: 08/25/21 09:00

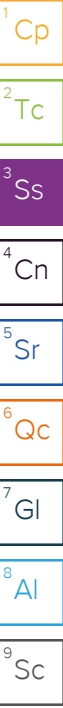
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732527	1	08/31/21 14:11	08/31/21 14:17	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730119	1	08/27/21 14:44	08/28/21 14:12	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730506	1	08/27/21 07:34	09/01/21 03:36	EL	Mt. Juliet, TN

SAMPLE SUMMARY

SS-6 L1394946-05 Solid

Collected by: Sam B. Collected date/time: 08/19/21 12:00 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1731200	25	08/27/21 21:48	08/31/21 00:24	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	1	09/01/21 00:32	09/02/21 23:20	JDG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1733328	1	09/01/21 19:14	09/02/21 02:17	HLJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1732504	1	08/31/21 19:19	09/01/21 02:57	AAT	Mt. Juliet, TN



SS-8 L1394946-06 Solid

Collected by: Sam B. Collected date/time: 08/19/21 14:00 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732527	1	08/31/21 14:11	08/31/21 14:17	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730119	1	08/27/21 14:44	08/28/21 14:14	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730506	1	08/27/21 07:34	09/01/21 03:39	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1731200	25	08/27/21 21:48	08/31/21 00:45	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	1	09/01/21 00:32	09/01/21 14:56	TJD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	2	09/01/21 00:32	09/03/21 00:39	JDG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1733328	1	09/01/21 19:14	09/02/21 02:27	HLJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1732504	1	08/31/21 19:19	09/01/21 03:15	AAT	Mt. Juliet, TN

SS-5 L1394946-07 Solid

Collected by: Sam B. Collected date/time: 08/19/21 15:30 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732527	1	08/31/21 14:11	08/31/21 14:17	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730119	1	08/27/21 14:44	08/28/21 14:17	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730506	1	08/27/21 07:34	09/01/21 03:42	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1731200	25	08/27/21 21:48	08/31/21 01:07	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	1	09/01/21 00:32	09/01/21 16:06	TJD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	2	09/01/21 00:32	09/03/21 01:32	JDG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1733328	1	09/01/21 19:14	09/02/21 02:36	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1732504	1	08/31/21 19:19	09/01/21 02:05	AAT	Mt. Juliet, TN

SS-9 L1394946-08 Solid

Collected by: Sam B. Collected date/time: 08/19/21 17:00 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732527	1	08/31/21 14:11	08/31/21 14:17	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730119	1	08/27/21 14:44	08/28/21 14:35	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730506	1	08/27/21 07:34	09/01/21 03:45	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1731200	25	08/27/21 21:48	08/31/21 01:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	1	09/01/21 00:32	09/01/21 15:38	TJD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	2	09/01/21 00:32	09/03/21 01:05	JDG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1733328	1	09/01/21 19:14	09/02/21 02:46	HLJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1732504	1	08/31/21 19:19	09/01/21 01:48	AAT	Mt. Juliet, TN

SS-7 L1394946-09 Solid

Collected by: Sam B. Collected date/time: 08/19/21 17:50 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732529	1	09/01/21 17:43	09/02/21 09:00	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730119	1	08/27/21 14:44	08/28/21 13:23	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730506	1	08/27/21 07:34	09/01/21 03:48	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1731200	25	08/27/21 21:48	08/31/21 01:50	DWR	Mt. Juliet, TN

SAMPLE SUMMARY

SS-7 L1394946-09 Solid

Collected by: Sam B. Collected date/time: 08/19/21 17:50 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	1	09/01/21 00:32	09/01/21 14:42	TJD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	2	09/01/21 00:32	09/03/21 00:13	JDG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1733328	1	09/01/21 19:14	09/02/21 02:55	HLJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1732504	1	08/31/21 19:19	09/01/21 01:30	AAT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SS-10 L1394946-10 Solid

Collected by: Sam B. Collected date/time: 08/20/21 08:00 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732529	1	09/01/21 17:43	09/02/21 09:00	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730119	1	08/27/21 14:44	08/28/21 14:37	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730506	5	08/27/21 07:34	09/01/21 12:20	EL	Mt. Juliet, TN

SS-ERB L1394946-11 GW

Collected by: Sam B. Collected date/time: 08/19/21 14:10 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG1730431	1	08/27/21 10:34	08/27/21 13:59	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1729726	1	08/26/21 12:42	08/26/21 16:07	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1731503	1	08/29/21 18:35	08/29/21 18:35	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1734226	1	09/02/21 22:09	09/02/21 22:09	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1729754	1	08/26/21 10:26	08/26/21 21:22	AMM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1732559	1	09/01/21 06:43	09/01/21 20:48	WCR	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1731009	1.33	08/28/21 06:47	08/28/21 17:41	AMM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1728560	1	08/26/21 00:29	08/26/21 13:25	LEA	Mt. Juliet, TN

TRIP BLANK L1394946-12 GW

Collected by: Sam B. Collected date/time: 08/19/21 00:00 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1731503	1	08/29/21 17:00	08/29/21 17:00	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1734226	1	09/02/21 22:31	09/02/21 22:31	JHH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Ayisha Raza
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	96.8		1	09/01/2021 14:37	WG1732484

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Mercury	ND		0.0413	1	08/28/2021 14:01	WG1730119

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Arsenic	2.59		2.07	1	09/01/2021 03:19	WG1730506
Barium	118		0.517	1	09/01/2021 03:19	WG1730506
Cadmium	ND		0.517	1	09/01/2021 03:19	WG1730506
Chromium	7.45		1.03	1	09/01/2021 03:19	WG1730506
Lead	7.85		0.517	1	09/01/2021 03:19	WG1730506
Selenium	ND		2.07	1	09/01/2021 03:19	WG1730506
Silver	ND		1.03	1	09/01/2021 03:19	WG1730506

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	ND		2.67	25	08/30/2021 20:52	WG1731200
(S) a,a,a-Trifluorotoluene(FID)	114		77.0-120		08/30/2021 20:52	WG1731200

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

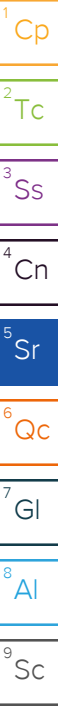
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	4.35		4.13	1	09/02/2021 22:27	WG1732534
Residual Range Organics (RRO)	35.9		10.3	1	09/02/2021 22:27	WG1732534
(S) o-Terphenyl	63.0		18.0-148		09/02/2021 22:27	WG1732534

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
PCB 1016	ND	J4	0.0351	1	09/02/2021 01:38	WG1733328
PCB 1221	ND		0.0351	1	09/02/2021 01:38	WG1733328
PCB 1232	ND		0.0351	1	09/02/2021 01:38	WG1733328
PCB 1242	ND		0.0351	1	09/02/2021 01:38	WG1733328
PCB 1248	ND		0.0176	1	09/02/2021 01:38	WG1733328
PCB 1254	ND		0.0176	1	09/02/2021 01:38	WG1733328
PCB 1260	ND	J4	0.0176	1	09/02/2021 01:38	WG1733328
(S) Decachlorobiphenyl	95.1		10.0-135		09/02/2021 01:38	WG1733328
(S) Tetrachloro-m-xylene	117		10.0-139		09/02/2021 01:38	WG1733328

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Anthracene	ND		0.00620	1	08/31/2021 23:55	WG1731869
Acenaphthene	ND		0.00620	1	08/31/2021 23:55	WG1731869
Acenaphthylene	ND		0.00620	1	08/31/2021 23:55	WG1731869
Benzo(a)anthracene	ND		0.00620	1	08/31/2021 23:55	WG1731869
Benzo(a)pyrene	ND		0.00620	1	08/31/2021 23:55	WG1731869
Benzo(b)fluoranthene	ND		0.00620	1	08/31/2021 23:55	WG1731869



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	ND		0.00620	1	08/31/2021 23:55	WG1731869
Benzo(k)fluoranthene	ND		0.00620	1	08/31/2021 23:55	WG1731869
Chrysene	ND		0.00620	1	08/31/2021 23:55	WG1731869
Dibenz(a,h)anthracene	ND		0.00620	1	08/31/2021 23:55	WG1731869
Fluoranthene	ND		0.00620	1	08/31/2021 23:55	WG1731869
Fluorene	ND		0.00620	1	08/31/2021 23:55	WG1731869
Indeno(1,2,3-cd)pyrene	ND		0.00620	1	08/31/2021 23:55	WG1731869
Naphthalene	ND		0.0207	1	08/31/2021 23:55	WG1731869
Phenanthrene	ND		0.00620	1	08/31/2021 23:55	WG1731869
Pyrene	ND		0.00620	1	08/31/2021 23:55	WG1731869
1-Methylnaphthalene	ND		0.0207	1	08/31/2021 23:55	WG1731869
2-Methylnaphthalene	ND		0.0207	1	08/31/2021 23:55	WG1731869
2-Chloronaphthalene	ND		0.0207	1	08/31/2021 23:55	WG1731869
(S) p-Terphenyl-d14	95.5		23.0-120		08/31/2021 23:55	WG1731869
(S) Nitrobenzene-d5	75.5		14.0-149		08/31/2021 23:55	WG1731869
(S) 2-Fluorobiphenyl	62.2		34.0-125		08/31/2021 23:55	WG1731869

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	88.7		1	08/31/2021 14:17	WG1732527

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Mercury	ND		0.0451	1	08/28/2021 14:04	WG1730119

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Arsenic	2.45		2.25	1	09/01/2021 03:22	WG1730506
Barium	125		0.563	1	09/01/2021 03:22	WG1730506
Cadmium	ND		0.563	1	09/01/2021 03:22	WG1730506
Chromium	5.69		1.13	1	09/01/2021 03:22	WG1730506
Lead	5.49		0.563	1	09/01/2021 03:22	WG1730506
Selenium	ND		2.25	1	09/01/2021 03:22	WG1730506
Silver	ND		1.13	1	09/01/2021 03:22	WG1730506

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	ND		3.13	25	08/30/2021 23:19	WG1731200
(S) a,a,a-Trifluorotoluene(FID)	113		77.0-120		08/30/2021 23:19	WG1731200

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	31.4		4.51	1	09/01/2021 14:13	WG1732534
Residual Range Organics (RRO)	154		11.3	1	09/01/2021 14:13	WG1732534
(S) o-Terphenyl	40.3		18.0-148		09/01/2021 14:13	WG1732534

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
PCB 1016	ND	J4	0.0383	1	09/02/2021 01:48	WG1733328
PCB 1221	ND		0.0383	1	09/02/2021 01:48	WG1733328
PCB 1232	ND		0.0383	1	09/02/2021 01:48	WG1733328
PCB 1242	ND		0.0383	1	09/02/2021 01:48	WG1733328
PCB 1248	ND		0.0192	1	09/02/2021 01:48	WG1733328
PCB 1254	ND		0.0192	1	09/02/2021 01:48	WG1733328
PCB 1260	ND	J4	0.0192	1	09/02/2021 01:48	WG1733328
(S) Decachlorobiphenyl	87.0		10.0-135		09/02/2021 01:48	WG1733328
(S) Tetrachloro-m-xylene	111		10.0-139		09/02/2021 01:48	WG1733328

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Anthracene	ND		0.00676	1	08/31/2021 23:19	WG1731869
Acenaphthene	ND		0.00676	1	08/31/2021 23:19	WG1731869
Acenaphthylene	ND		0.00676	1	08/31/2021 23:19	WG1731869
Benzo(a)anthracene	ND		0.00676	1	08/31/2021 23:19	WG1731869
Benzo(a)pyrene	ND		0.00676	1	08/31/2021 23:19	WG1731869
Benzo(b)fluoranthene	ND		0.00676	1	08/31/2021 23:19	WG1731869

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	ND		0.00676	1	08/31/2021 23:19	WG1731869
Benzo(k)fluoranthene	ND		0.00676	1	08/31/2021 23:19	WG1731869
Chrysene	ND		0.00676	1	08/31/2021 23:19	WG1731869
Dibenz(a,h)anthracene	ND		0.00676	1	08/31/2021 23:19	WG1731869
Fluoranthene	ND		0.00676	1	08/31/2021 23:19	WG1731869
Fluorene	ND		0.00676	1	08/31/2021 23:19	WG1731869
Indeno(1,2,3-cd)pyrene	ND		0.00676	1	08/31/2021 23:19	WG1731869
Naphthalene	ND		0.0225	1	08/31/2021 23:19	WG1731869
Phenanthrene	ND		0.00676	1	08/31/2021 23:19	WG1731869
Pyrene	ND		0.00676	1	08/31/2021 23:19	WG1731869
1-Methylnaphthalene	ND		0.0225	1	08/31/2021 23:19	WG1731869
2-Methylnaphthalene	ND		0.0225	1	08/31/2021 23:19	WG1731869
2-Chloronaphthalene	ND		0.0225	1	08/31/2021 23:19	WG1731869
<i>(S) p-Terphenyl-d14</i>	79.5		23.0-120		08/31/2021 23:19	WG1731869
<i>(S) Nitrobenzene-d5</i>	76.9		14.0-149		08/31/2021 23:19	WG1731869
<i>(S) 2-Fluorobiphenyl</i>	69.7		34.0-125		08/31/2021 23:19	WG1731869

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	75.6		1	08/31/2021 14:17	WG1732527

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Mercury	ND		0.0529	1	08/28/2021 14:06	WG1730119

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Arsenic	ND		2.64	1	09/01/2021 03:30	WG1730506
Barium	162		0.661	1	09/01/2021 03:30	WG1730506
Cadmium	ND		0.661	1	09/01/2021 03:30	WG1730506
Chromium	6.01		1.32	1	09/01/2021 03:30	WG1730506
Lead	5.84		0.661	1	09/01/2021 03:30	WG1730506
Selenium	ND		2.64	1	09/01/2021 03:30	WG1730506
Silver	ND		1.32	1	09/01/2021 03:30	WG1730506

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	ND		4.11	25	08/30/2021 23:41	WG1731200
(S) a,a,a-Trifluorotoluene(FID)	114		77.0-120		08/30/2021 23:41	WG1731200

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

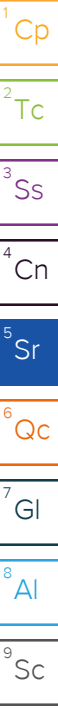
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	45.6		5.29	1	09/01/2021 15:24	WG1732534
Residual Range Organics (RRO)	221		13.2	1	09/01/2021 15:24	WG1732534
(S) o-Terphenyl	33.0		18.0-148		09/01/2021 15:24	WG1732534

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
PCB 1016	ND	J4	0.0450	1	09/02/2021 01:58	WG1733328
PCB 1221	ND		0.0450	1	09/02/2021 01:58	WG1733328
PCB 1232	ND		0.0450	1	09/02/2021 01:58	WG1733328
PCB 1242	ND		0.0450	1	09/02/2021 01:58	WG1733328
PCB 1248	ND		0.0225	1	09/02/2021 01:58	WG1733328
PCB 1254	ND		0.0225	1	09/02/2021 01:58	WG1733328
PCB 1260	ND	J4	0.0225	1	09/02/2021 01:58	WG1733328
(S) Decachlorobiphenyl	77.1		10.0-135		09/02/2021 01:58	WG1733328
(S) Tetrachloro-m-xylene	97.6		10.0-139		09/02/2021 01:58	WG1733328

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Anthracene	ND		0.00793	1	08/31/2021 23:37	WG1731869
Acenaphthene	ND		0.00793	1	08/31/2021 23:37	WG1731869
Acenaphthylene	ND		0.00793	1	08/31/2021 23:37	WG1731869
Benzo(a)anthracene	ND		0.00793	1	08/31/2021 23:37	WG1731869
Benzo(a)pyrene	ND		0.00793	1	08/31/2021 23:37	WG1731869
Benzo(b)fluoranthene	ND		0.00793	1	08/31/2021 23:37	WG1731869



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	ND		0.00793	1	08/31/2021 23:37	WG1731869
Benzo(k)fluoranthene	ND		0.00793	1	08/31/2021 23:37	WG1731869
Chrysene	ND		0.00793	1	08/31/2021 23:37	WG1731869
Dibenz(a,h)anthracene	ND		0.00793	1	08/31/2021 23:37	WG1731869
Fluoranthene	ND		0.00793	1	08/31/2021 23:37	WG1731869
Fluorene	ND		0.00793	1	08/31/2021 23:37	WG1731869
Indeno(1,2,3-cd)pyrene	ND		0.00793	1	08/31/2021 23:37	WG1731869
Naphthalene	ND		0.0264	1	08/31/2021 23:37	WG1731869
Phenanthrene	ND		0.00793	1	08/31/2021 23:37	WG1731869
Pyrene	ND		0.00793	1	08/31/2021 23:37	WG1731869
1-Methylnaphthalene	ND		0.0264	1	08/31/2021 23:37	WG1731869
2-Methylnaphthalene	ND		0.0264	1	08/31/2021 23:37	WG1731869
2-Chloronaphthalene	ND		0.0264	1	08/31/2021 23:37	WG1731869
<i>(S) p-Terphenyl-d14</i>	86.3		23.0-120		08/31/2021 23:37	WG1731869
<i>(S) Nitrobenzene-d5</i>	86.2		14.0-149		08/31/2021 23:37	WG1731869
<i>(S) 2-Fluorobiphenyl</i>	72.2		34.0-125		08/31/2021 23:37	WG1731869

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	81.6		1	08/31/2021 14:17	WG1732527

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Mercury	ND		0.0490	1	08/28/2021 14:09	WG1730119

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Arsenic	3.98		2.45	1	09/01/2021 03:33	WG1730506
Barium	906		0.613	1	09/01/2021 03:33	WG1730506
Cadmium	0.723		0.613	1	09/01/2021 03:33	WG1730506
Chromium	10.3		1.23	1	09/01/2021 03:33	WG1730506
Lead	7.73		0.613	1	09/01/2021 03:33	WG1730506
Selenium	3.95	B	2.45	1	09/01/2021 03:33	WG1730506
Silver	ND		1.23	1	09/01/2021 03:33	WG1730506

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	ND		3.63	25	08/31/2021 00:02	WG1731200
(S) a,a,a-Trifluorotoluene(FID)	113		77.0-120		08/31/2021 00:02	WG1731200

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

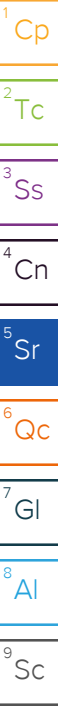
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	42.3		4.90	1	09/01/2021 16:20	WG1732534
Residual Range Organics (RRO)	168		24.5	2	09/03/2021 01:58	WG1732534
(S) o-Terphenyl	54.0		18.0-148		09/01/2021 16:20	WG1732534
(S) o-Terphenyl	81.8		18.0-148		09/03/2021 01:58	WG1732534

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
PCB 1016	ND	J4	0.0417	1	09/02/2021 02:07	WG1733328
PCB 1221	ND		0.0417	1	09/02/2021 02:07	WG1733328
PCB 1232	ND		0.0417	1	09/02/2021 02:07	WG1733328
PCB 1242	ND	P	0.0417	1	09/02/2021 02:07	WG1733328
PCB 1248	ND		0.0208	1	09/02/2021 02:07	WG1733328
PCB 1254	ND		0.0208	1	09/02/2021 02:07	WG1733328
PCB 1260	ND	J4	0.0208	1	09/02/2021 02:07	WG1733328
(S) Decachlorobiphenyl	92.7		10.0-135		09/02/2021 02:07	WG1733328
(S) Tetrachloro-m-xylene	115		10.0-139		09/02/2021 02:07	WG1733328

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Anthracene	ND		0.00735	1	09/01/2021 02:40	WG1732504
Acenaphthene	ND		0.00735	1	09/01/2021 02:40	WG1732504
Acenaphthylene	ND		0.00735	1	09/01/2021 02:40	WG1732504
Benzo(a)anthracene	ND		0.00735	1	09/01/2021 02:40	WG1732504
Benzo(a)pyrene	ND		0.00735	1	09/01/2021 02:40	WG1732504



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(b)fluoranthene	ND		0.00735	1	09/01/2021 02:40	WG1732504
Benzo(g,h,i)perylene	ND		0.00735	1	09/01/2021 02:40	WG1732504
Benzo(k)fluoranthene	ND		0.00735	1	09/01/2021 02:40	WG1732504
Chrysene	ND		0.00735	1	09/01/2021 02:40	WG1732504
Dibenz(a,h)anthracene	ND		0.00735	1	09/01/2021 02:40	WG1732504
Fluoranthene	ND		0.00735	1	09/01/2021 02:40	WG1732504
Fluorene	ND		0.00735	1	09/01/2021 02:40	WG1732504
Indeno(1,2,3-cd)pyrene	ND		0.00735	1	09/01/2021 02:40	WG1732504
Naphthalene	ND		0.0245	1	09/01/2021 02:40	WG1732504
Phenanthrene	ND		0.00735	1	09/01/2021 02:40	WG1732504
Pyrene	ND		0.00735	1	09/01/2021 02:40	WG1732504
1-Methylnaphthalene	ND		0.0245	1	09/01/2021 02:40	WG1732504
2-Methylnaphthalene	ND		0.0245	1	09/01/2021 02:40	WG1732504
2-Chloronaphthalene	ND		0.0245	1	09/01/2021 02:40	WG1732504
(S) p-Terphenyl-d14	89.3		23.0-120		09/01/2021 02:40	WG1732504
(S) Nitrobenzene-d5	90.3		14.0-149		09/01/2021 02:40	WG1732504
(S) 2-Fluorobiphenyl	73.2		34.0-125		09/01/2021 02:40	WG1732504

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	90.4		1	08/31/2021 14:17	WG1732527

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Mercury	ND		0.0443	1	08/28/2021 14:12	WG1730119

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Arsenic	2.68		2.21	1	09/01/2021 03:36	WG1730506
Barium	144		0.553	1	09/01/2021 03:36	WG1730506
Cadmium	ND		0.553	1	09/01/2021 03:36	WG1730506
Chromium	5.91		1.11	1	09/01/2021 03:36	WG1730506
Lead	6.05		0.553	1	09/01/2021 03:36	WG1730506
Selenium	ND		2.21	1	09/01/2021 03:36	WG1730506
Silver	ND		1.11	1	09/01/2021 03:36	WG1730506

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	ND		3.03	25	08/31/2021 00:24	WG1731200
(S) a,a,a-Trifluorotoluene(FID)	113		77.0-120		08/31/2021 00:24	WG1731200

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

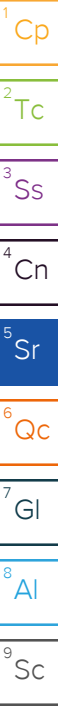
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	25.2		4.43	1	09/02/2021 23:20	WG1732534
Residual Range Organics (RRO)	89.8		11.1	1	09/02/2021 23:20	WG1732534
(S) o-Terphenyl	58.0		18.0-148		09/02/2021 23:20	WG1732534

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
PCB 1016	ND	J4	0.0376	1	09/02/2021 02:17	WG1733328
PCB 1221	ND		0.0376	1	09/02/2021 02:17	WG1733328
PCB 1232	ND		0.0376	1	09/02/2021 02:17	WG1733328
PCB 1242	ND		0.0376	1	09/02/2021 02:17	WG1733328
PCB 1248	ND		0.0188	1	09/02/2021 02:17	WG1733328
PCB 1254	ND		0.0188	1	09/02/2021 02:17	WG1733328
PCB 1260	ND	J4	0.0188	1	09/02/2021 02:17	WG1733328
(S) Decachlorobiphenyl	89.9		10.0-135		09/02/2021 02:17	WG1733328
(S) Tetrachloro-m-xylene	108		10.0-139		09/02/2021 02:17	WG1733328

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Anthracene	ND		0.00664	1	09/01/2021 02:57	WG1732504
Acenaphthene	ND		0.00664	1	09/01/2021 02:57	WG1732504
Acenaphthylene	ND		0.00664	1	09/01/2021 02:57	WG1732504
Benzo(a)anthracene	ND		0.00664	1	09/01/2021 02:57	WG1732504
Benzo(a)pyrene	ND		0.00664	1	09/01/2021 02:57	WG1732504
Benzo(b)fluoranthene	ND		0.00664	1	09/01/2021 02:57	WG1732504



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	ND		0.00664	1	09/01/2021 02:57	WG1732504
Benzo(k)fluoranthene	ND		0.00664	1	09/01/2021 02:57	WG1732504
Chrysene	ND		0.00664	1	09/01/2021 02:57	WG1732504
Dibenz(a,h)anthracene	ND		0.00664	1	09/01/2021 02:57	WG1732504
Fluoranthene	ND		0.00664	1	09/01/2021 02:57	WG1732504
Fluorene	ND		0.00664	1	09/01/2021 02:57	WG1732504
Indeno(1,2,3-cd)pyrene	ND		0.00664	1	09/01/2021 02:57	WG1732504
Naphthalene	ND		0.0221	1	09/01/2021 02:57	WG1732504
Phenanthrene	ND		0.00664	1	09/01/2021 02:57	WG1732504
Pyrene	ND		0.00664	1	09/01/2021 02:57	WG1732504
1-Methylnaphthalene	ND		0.0221	1	09/01/2021 02:57	WG1732504
2-Methylnaphthalene	ND		0.0221	1	09/01/2021 02:57	WG1732504
2-Chloronaphthalene	0.0263		0.0221	1	09/01/2021 02:57	WG1732504
(S) p-Terphenyl-d14	90.0		23.0-120		09/01/2021 02:57	WG1732504
(S) Nitrobenzene-d5	96.0		14.0-149		09/01/2021 02:57	WG1732504
(S) 2-Fluorobiphenyl	77.5		34.0-125		09/01/2021 02:57	WG1732504

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	84.5		1	08/31/2021 14:17	WG1732527

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Mercury	ND		0.0473	1	08/28/2021 14:14	WG1730119

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Arsenic	ND		2.37	1	09/01/2021 03:39	WG1730506
Barium	141		0.592	1	09/01/2021 03:39	WG1730506
Cadmium	ND		0.592	1	09/01/2021 03:39	WG1730506
Chromium	3.77		1.18	1	09/01/2021 03:39	WG1730506
Lead	4.44		0.592	1	09/01/2021 03:39	WG1730506
Selenium	ND		2.37	1	09/01/2021 03:39	WG1730506
Silver	ND		1.18	1	09/01/2021 03:39	WG1730506

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	ND		3.42	25	08/31/2021 00:45	WG1731200
(S) a,a,a-Trifluorotoluene(FID)	113		77.0-120		08/31/2021 00:45	WG1731200

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

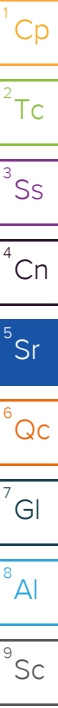
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	57.8		4.73	1	09/01/2021 14:56	WG1732534
Residual Range Organics (RRO)	258		23.7	2	09/03/2021 00:39	WG1732534
(S) o-Terphenyl	78.8		18.0-148		09/03/2021 00:39	WG1732534
(S) o-Terphenyl	48.3		18.0-148		09/01/2021 14:56	WG1732534

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
PCB 1016	ND	J4	0.0402	1	09/02/2021 02:27	WG1733328
PCB 1221	ND		0.0402	1	09/02/2021 02:27	WG1733328
PCB 1232	ND		0.0402	1	09/02/2021 02:27	WG1733328
PCB 1242	ND		0.0402	1	09/02/2021 02:27	WG1733328
PCB 1248	ND		0.0201	1	09/02/2021 02:27	WG1733328
PCB 1254	ND		0.0201	1	09/02/2021 02:27	WG1733328
PCB 1260	ND	J4	0.0201	1	09/02/2021 02:27	WG1733328
(S) Decachlorobiphenyl	62.0		10.0-135		09/02/2021 02:27	WG1733328
(S) Tetrachloro-m-xylene	76.5		10.0-139		09/02/2021 02:27	WG1733328

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Anthracene	ND		0.00710	1	09/01/2021 03:15	WG1732504
Acenaphthene	ND		0.00710	1	09/01/2021 03:15	WG1732504
Acenaphthylene	ND		0.00710	1	09/01/2021 03:15	WG1732504
Benzo(a)anthracene	ND		0.00710	1	09/01/2021 03:15	WG1732504
Benzo(a)pyrene	ND		0.00710	1	09/01/2021 03:15	WG1732504



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(b)fluoranthene	ND		0.00710	1	09/01/2021 03:15	WG1732504
Benzo(g,h,i)perylene	ND		0.00710	1	09/01/2021 03:15	WG1732504
Benzo(k)fluoranthene	ND		0.00710	1	09/01/2021 03:15	WG1732504
Chrysene	ND		0.00710	1	09/01/2021 03:15	WG1732504
Dibenz(a,h)anthracene	ND		0.00710	1	09/01/2021 03:15	WG1732504
Fluoranthene	ND		0.00710	1	09/01/2021 03:15	WG1732504
Fluorene	ND		0.00710	1	09/01/2021 03:15	WG1732504
Indeno(1,2,3-cd)pyrene	ND		0.00710	1	09/01/2021 03:15	WG1732504
Naphthalene	ND		0.0237	1	09/01/2021 03:15	WG1732504
Phenanthrene	ND		0.00710	1	09/01/2021 03:15	WG1732504
Pyrene	ND		0.00710	1	09/01/2021 03:15	WG1732504
1-Methylnaphthalene	ND		0.0237	1	09/01/2021 03:15	WG1732504
2-Methylnaphthalene	ND		0.0237	1	09/01/2021 03:15	WG1732504
2-Chloronaphthalene	0.0251		0.0237	1	09/01/2021 03:15	WG1732504
<i>(S) p-Terphenyl-d14</i>	83.1		23.0-120		09/01/2021 03:15	WG1732504
<i>(S) Nitrobenzene-d5</i>	86.7		14.0-149		09/01/2021 03:15	WG1732504
<i>(S) 2-Fluorobiphenyl</i>	69.9		34.0-125		09/01/2021 03:15	WG1732504

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	86.3		1	08/31/2021 14:17	WG1732527

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Mercury	ND		0.0463	1	08/28/2021 14:17	WG1730119

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Arsenic	ND		2.32	1	09/01/2021 03:42	WG1730506
Barium	230		0.579	1	09/01/2021 03:42	WG1730506
Cadmium	ND		0.579	1	09/01/2021 03:42	WG1730506
Chromium	6.94		1.16	1	09/01/2021 03:42	WG1730506
Lead	7.96		0.579	1	09/01/2021 03:42	WG1730506
Selenium	ND		2.32	1	09/01/2021 03:42	WG1730506
Silver	ND		1.16	1	09/01/2021 03:42	WG1730506

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	ND		3.29	25	08/31/2021 01:07	WG1731200
(S) a,a,a-Trifluorotoluene(FID)	114		77.0-120		08/31/2021 01:07	WG1731200

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	36.0		4.63	1	09/01/2021 16:06	WG1732534
Residual Range Organics (RRO)	193		23.2	2	09/03/2021 01:32	WG1732534
(S) o-Terphenyl	32.7		18.0-148		09/01/2021 16:06	WG1732534
(S) o-Terphenyl	52.5		18.0-148		09/03/2021 01:32	WG1732534

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
PCB 1016	ND	J4	0.0394	1	09/02/2021 02:36	WG1733328
PCB 1221	ND		0.0394	1	09/02/2021 02:36	WG1733328
PCB 1232	ND		0.0394	1	09/02/2021 02:36	WG1733328
PCB 1242	ND		0.0394	1	09/02/2021 02:36	WG1733328
PCB 1248	ND		0.0197	1	09/02/2021 02:36	WG1733328
PCB 1254	ND		0.0197	1	09/02/2021 02:36	WG1733328
PCB 1260	ND	J4	0.0197	1	09/02/2021 02:36	WG1733328
(S) Decachlorobiphenyl	71.7		10.0-135		09/02/2021 02:36	WG1733328
(S) Tetrachloro-m-xylene	88.4		10.0-139		09/02/2021 02:36	WG1733328

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Anthracene	ND		0.00695	1	09/01/2021 02:05	WG1732504
Acenaphthene	ND		0.00695	1	09/01/2021 02:05	WG1732504
Acenaphthylene	ND		0.00695	1	09/01/2021 02:05	WG1732504
Benzo(a)anthracene	ND		0.00695	1	09/01/2021 02:05	WG1732504
Benzo(a)pyrene	ND		0.00695	1	09/01/2021 02:05	WG1732504

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(b)fluoranthene	ND		0.00695	1	09/01/2021 02:05	WG1732504
Benzo(g,h,i)perylene	ND		0.00695	1	09/01/2021 02:05	WG1732504
Benzo(k)fluoranthene	ND		0.00695	1	09/01/2021 02:05	WG1732504
Chrysene	ND		0.00695	1	09/01/2021 02:05	WG1732504
Dibenz(a,h)anthracene	ND		0.00695	1	09/01/2021 02:05	WG1732504
Fluoranthene	ND		0.00695	1	09/01/2021 02:05	WG1732504
Fluorene	ND		0.00695	1	09/01/2021 02:05	WG1732504
Indeno(1,2,3-cd)pyrene	ND		0.00695	1	09/01/2021 02:05	WG1732504
Naphthalene	ND		0.0232	1	09/01/2021 02:05	WG1732504
Phenanthrene	ND		0.00695	1	09/01/2021 02:05	WG1732504
Pyrene	ND		0.00695	1	09/01/2021 02:05	WG1732504
1-Methylnaphthalene	ND		0.0232	1	09/01/2021 02:05	WG1732504
2-Methylnaphthalene	ND		0.0232	1	09/01/2021 02:05	WG1732504
2-Chloronaphthalene	ND		0.0232	1	09/01/2021 02:05	WG1732504
(S) p-Terphenyl-d14	88.2		23.0-120		09/01/2021 02:05	WG1732504
(S) Nitrobenzene-d5	89.4		14.0-149		09/01/2021 02:05	WG1732504
(S) 2-Fluorobiphenyl	73.8		34.0-125		09/01/2021 02:05	WG1732504

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	78.6		1	08/31/2021 14:17	WG1732527

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Mercury	ND		0.0509	1	08/28/2021 14:35	WG1730119

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Arsenic	3.38		2.55	1	09/01/2021 03:45	WG1730506
Barium	162		0.636	1	09/01/2021 03:45	WG1730506
Cadmium	ND		0.636	1	09/01/2021 03:45	WG1730506
Chromium	5.85		1.27	1	09/01/2021 03:45	WG1730506
Lead	6.42		0.636	1	09/01/2021 03:45	WG1730506
Selenium	2.85	B	2.55	1	09/01/2021 03:45	WG1730506
Silver	ND		1.27	1	09/01/2021 03:45	WG1730506

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	ND		3.86	25	08/31/2021 01:28	WG1731200
(S) a,a,a-Trifluorotoluene(FID)	114		77.0-120		08/31/2021 01:28	WG1731200

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

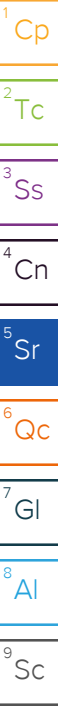
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	42.0		5.09	1	09/01/2021 15:38	WG1732534
Residual Range Organics (RRO)	191		25.5	2	09/03/2021 01:05	WG1732534
(S) o-Terphenyl	29.2		18.0-148		09/01/2021 15:38	WG1732534
(S) o-Terphenyl	59.6		18.0-148		09/03/2021 01:05	WG1732534

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
PCB 1016	ND	J4	0.0433	1	09/02/2021 02:46	WG1733328
PCB 1221	ND		0.0433	1	09/02/2021 02:46	WG1733328
PCB 1232	ND		0.0433	1	09/02/2021 02:46	WG1733328
PCB 1242	ND		0.0433	1	09/02/2021 02:46	WG1733328
PCB 1248	ND		0.0216	1	09/02/2021 02:46	WG1733328
PCB 1254	ND		0.0216	1	09/02/2021 02:46	WG1733328
PCB 1260	ND	J4	0.0216	1	09/02/2021 02:46	WG1733328
(S) Decachlorobiphenyl	83.7		10.0-135		09/02/2021 02:46	WG1733328
(S) Tetrachloro-m-xylene	99.8		10.0-139		09/02/2021 02:46	WG1733328

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Anthracene	ND		0.00764	1	09/01/2021 01:48	WG1732504
Acenaphthene	ND		0.00764	1	09/01/2021 01:48	WG1732504
Acenaphthylene	ND		0.00764	1	09/01/2021 01:48	WG1732504
Benzo(a)anthracene	ND		0.00764	1	09/01/2021 01:48	WG1732504
Benzo(a)pyrene	ND		0.00764	1	09/01/2021 01:48	WG1732504



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(b)fluoranthene	ND		0.00764	1	09/01/2021 01:48	WG1732504
Benzo(g,h,i)perylene	ND		0.00764	1	09/01/2021 01:48	WG1732504
Benzo(k)fluoranthene	ND		0.00764	1	09/01/2021 01:48	WG1732504
Chrysene	ND		0.00764	1	09/01/2021 01:48	WG1732504
Dibenz(a,h)anthracene	ND		0.00764	1	09/01/2021 01:48	WG1732504
Fluoranthene	ND		0.00764	1	09/01/2021 01:48	WG1732504
Fluorene	ND		0.00764	1	09/01/2021 01:48	WG1732504
Indeno(1,2,3-cd)pyrene	ND		0.00764	1	09/01/2021 01:48	WG1732504
Naphthalene	ND		0.0255	1	09/01/2021 01:48	WG1732504
Phenanthrene	ND		0.00764	1	09/01/2021 01:48	WG1732504
Pyrene	ND		0.00764	1	09/01/2021 01:48	WG1732504
1-Methylnaphthalene	ND		0.0255	1	09/01/2021 01:48	WG1732504
2-Methylnaphthalene	ND		0.0255	1	09/01/2021 01:48	WG1732504
2-Chloronaphthalene	0.0261		0.0255	1	09/01/2021 01:48	WG1732504
<i>(S) p-Terphenyl-d14</i>	89.3		23.0-120		09/01/2021 01:48	WG1732504
<i>(S) Nitrobenzene-d5</i>	89.0		14.0-149		09/01/2021 01:48	WG1732504
<i>(S) 2-Fluorobiphenyl</i>	74.1		34.0-125		09/01/2021 01:48	WG1732504

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	86.2		1	09/02/2021 09:00	WG1732529

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Mercury	ND		0.0464	1	08/28/2021 13:23	WG1730119

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Arsenic	2.71		2.32	1	09/01/2021 03:48	WG1730506
Barium	135		0.580	1	09/01/2021 03:48	WG1730506
Cadmium	ND		0.580	1	09/01/2021 03:48	WG1730506
Chromium	5.67		1.16	1	09/01/2021 03:48	WG1730506
Lead	5.03		0.580	1	09/01/2021 03:48	WG1730506
Selenium	2.32	B	2.32	1	09/01/2021 03:48	WG1730506
Silver	ND		1.16	1	09/01/2021 03:48	WG1730506

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	ND		3.30	25	08/31/2021 01:50	WG1731200
(S) a,a,a-Trifluorotoluene(FID)	114		77.0-120		08/31/2021 01:50	WG1731200

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

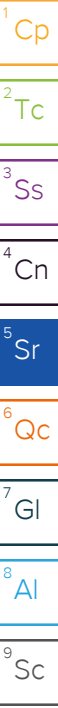
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	50.8		4.64	1	09/01/2021 14:42	WG1732534
Residual Range Organics (RRO)	200		23.2	2	09/03/2021 00:13	WG1732534
(S) o-Terphenyl	66.3		18.0-148		09/03/2021 00:13	WG1732534
(S) o-Terphenyl	42.4		18.0-148		09/01/2021 14:42	WG1732534

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
PCB 1016	ND	J4	0.0394	1	09/02/2021 02:55	WG1733328
PCB 1221	ND		0.0394	1	09/02/2021 02:55	WG1733328
PCB 1232	ND		0.0394	1	09/02/2021 02:55	WG1733328
PCB 1242	ND		0.0394	1	09/02/2021 02:55	WG1733328
PCB 1248	ND		0.0197	1	09/02/2021 02:55	WG1733328
PCB 1254	ND		0.0197	1	09/02/2021 02:55	WG1733328
PCB 1260	ND	J4	0.0197	1	09/02/2021 02:55	WG1733328
(S) Decachlorobiphenyl	72.9		10.0-135		09/02/2021 02:55	WG1733328
(S) Tetrachloro-m-xylene	88.2		10.0-139		09/02/2021 02:55	WG1733328

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Anthracene	ND		0.00696	1	09/01/2021 01:30	WG1732504
Acenaphthene	ND		0.00696	1	09/01/2021 01:30	WG1732504
Acenaphthylene	ND		0.00696	1	09/01/2021 01:30	WG1732504
Benzo(a)anthracene	ND		0.00696	1	09/01/2021 01:30	WG1732504
Benzo(a)pyrene	ND		0.00696	1	09/01/2021 01:30	WG1732504



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(b)fluoranthene	ND		0.00696	1	09/01/2021 01:30	WG1732504
Benzo(g,h,i)perylene	ND		0.00696	1	09/01/2021 01:30	WG1732504
Benzo(k)fluoranthene	ND		0.00696	1	09/01/2021 01:30	WG1732504
Chrysene	ND		0.00696	1	09/01/2021 01:30	WG1732504
Dibenz(a,h)anthracene	ND		0.00696	1	09/01/2021 01:30	WG1732504
Fluoranthene	ND		0.00696	1	09/01/2021 01:30	WG1732504
Fluorene	ND		0.00696	1	09/01/2021 01:30	WG1732504
Indeno(1,2,3-cd)pyrene	ND		0.00696	1	09/01/2021 01:30	WG1732504
Naphthalene	ND		0.0232	1	09/01/2021 01:30	WG1732504
Phenanthrene	ND		0.00696	1	09/01/2021 01:30	WG1732504
Pyrene	ND		0.00696	1	09/01/2021 01:30	WG1732504
1-Methylnaphthalene	ND		0.0232	1	09/01/2021 01:30	WG1732504
2-Methylnaphthalene	ND		0.0232	1	09/01/2021 01:30	WG1732504
2-Chloronaphthalene	0.0272		0.0232	1	09/01/2021 01:30	WG1732504
<i>(S) p-Terphenyl-d14</i>	92.4		23.0-120		09/01/2021 01:30	WG1732504
<i>(S) Nitrobenzene-d5</i>	99.0		14.0-149		09/01/2021 01:30	WG1732504
<i>(S) 2-Fluorobiphenyl</i>	78.2		34.0-125		09/01/2021 01:30	WG1732504

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.6		1	09/02/2021 09:00	WG1732529

1 Cp

2 Tc

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Mercury	ND		0.0427	1	08/28/2021 14:37	WG1730119

3 Ss

4 Cn

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Arsenic	ND		10.7	5	09/01/2021 12:20	WG1730506
Barium	2630		2.67	5	09/01/2021 12:20	WG1730506
Cadmium	ND		2.67	5	09/01/2021 12:20	WG1730506
Chromium	19.4		5.34	5	09/01/2021 12:20	WG1730506
Lead	4.12		2.67	5	09/01/2021 12:20	WG1730506
Selenium	ND		10.7	5	09/01/2021 12:20	WG1730506
Silver	ND		5.34	5	09/01/2021 12:20	WG1730506

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	08/27/2021 13:59	WG1730431

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		2.00	1	08/26/2021 16:07	WG1729726
Barium	ND		2.00	1	08/26/2021 16:07	WG1729726
Cadmium	ND		1.00	1	08/26/2021 16:07	WG1729726
Chromium	ND		2.00	1	08/26/2021 16:07	WG1729726
Lead	ND		2.00	1	08/26/2021 16:07	WG1729726
Selenium	ND		2.00	1	08/26/2021 16:07	WG1729726
Silver	ND		2.00	1	08/26/2021 16:07	WG1729726

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND	J3	50.0	1	08/29/2021 18:35	WG1731503
Acrolein	ND		50.0	1	08/29/2021 18:35	WG1731503
Acrylonitrile	ND		10.0	1	08/29/2021 18:35	WG1731503
Benzene	ND		1.00	1	08/29/2021 18:35	WG1731503
Bromobenzene	ND		1.00	1	08/29/2021 18:35	WG1731503
Bromodichloromethane	ND		1.00	1	08/29/2021 18:35	WG1731503
Bromoform	ND		1.00	1	08/29/2021 18:35	WG1731503
Bromomethane	ND		5.00	1	08/29/2021 18:35	WG1731503
n-Butylbenzene	ND		1.00	1	08/29/2021 18:35	WG1731503
sec-Butylbenzene	ND		1.00	1	08/29/2021 18:35	WG1731503
tert-Butylbenzene	ND		1.00	1	08/29/2021 18:35	WG1731503
Carbon tetrachloride	ND		1.00	1	08/29/2021 18:35	WG1731503
Chlorobenzene	ND		1.00	1	08/29/2021 18:35	WG1731503
Chlorodibromomethane	ND		1.00	1	08/29/2021 18:35	WG1731503
Chloroethane	ND	J3	5.00	1	08/29/2021 18:35	WG1731503
Chloroform	ND		5.00	1	08/29/2021 18:35	WG1731503
Chloromethane	ND		2.50	1	08/29/2021 18:35	WG1731503
2-Chlorotoluene	ND		1.00	1	08/29/2021 18:35	WG1731503
4-Chlorotoluene	ND		1.00	1	08/29/2021 18:35	WG1731503
1,2-Dibromo-3-Chloropropane	ND		5.00	1	08/29/2021 18:35	WG1731503
1,2-Dibromoethane	ND		1.00	1	08/29/2021 18:35	WG1731503
Dibromomethane	ND		1.00	1	08/29/2021 18:35	WG1731503
1,2-Dichlorobenzene	ND		1.00	1	08/29/2021 18:35	WG1731503
1,3-Dichlorobenzene	ND		1.00	1	08/29/2021 18:35	WG1731503
1,4-Dichlorobenzene	ND		1.00	1	08/29/2021 18:35	WG1731503
Dichlorodifluoromethane	ND		5.00	1	08/29/2021 18:35	WG1731503
1,1-Dichloroethane	ND		1.00	1	08/29/2021 18:35	WG1731503
1,2-Dichloroethane	ND		1.00	1	08/29/2021 18:35	WG1731503
1,1-Dichloroethene	ND	J3 J4	1.00	1	08/29/2021 18:35	WG1731503
cis-1,2-Dichloroethene	ND		1.00	1	08/29/2021 18:35	WG1731503
trans-1,2-Dichloroethene	ND		1.00	1	08/29/2021 18:35	WG1731503
1,2-Dichloropropane	ND		1.00	1	08/29/2021 18:35	WG1731503
1,1-Dichloropropene	ND		1.00	1	08/29/2021 18:35	WG1731503
1,3-Dichloropropane	ND		1.00	1	08/29/2021 18:35	WG1731503
cis-1,3-Dichloropropene	ND		1.00	1	08/29/2021 18:35	WG1731503
trans-1,3-Dichloropropene	ND		1.00	1	08/29/2021 18:35	WG1731503
2,2-Dichloropropane	ND		1.00	1	08/29/2021 18:35	WG1731503
Di-isopropyl ether	ND		1.00	1	08/29/2021 18:35	WG1731503
Ethylbenzene	ND		1.00	1	08/29/2021 18:35	WG1731503

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

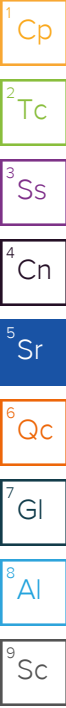
7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Hexachloro-1,3-butadiene	ND		1.00	1	08/29/2021 18:35	WG1731503
Isopropylbenzene	ND		1.00	1	08/29/2021 18:35	WG1731503
p-Isopropyltoluene	ND		1.00	1	08/29/2021 18:35	WG1731503
2-Butanone (MEK)	ND		10.0	1	08/29/2021 18:35	WG1731503
Methylene Chloride	ND		5.00	1	08/29/2021 18:35	WG1731503
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	08/29/2021 18:35	WG1731503
Methyl tert-butyl ether	ND		1.00	1	08/29/2021 18:35	WG1731503
Naphthalene	ND		5.00	1	08/29/2021 18:35	WG1731503
n-Propylbenzene	ND		1.00	1	08/29/2021 18:35	WG1731503
Styrene	ND		1.00	1	08/29/2021 18:35	WG1731503
1,1,1,2-Tetrachloroethane	ND		1.00	1	08/29/2021 18:35	WG1731503
1,1,2,2-Tetrachloroethane	ND		1.00	1	08/29/2021 18:35	WG1731503
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	09/02/2021 22:09	WG1734226
Tetrachloroethene	ND		1.00	1	08/29/2021 18:35	WG1731503
Toluene	ND		1.00	1	08/29/2021 18:35	WG1731503
1,2,3-Trichlorobenzene	ND		1.00	1	08/29/2021 18:35	WG1731503
1,2,4-Trichlorobenzene	ND		1.00	1	08/29/2021 18:35	WG1731503
1,1,1-Trichloroethane	ND		1.00	1	08/29/2021 18:35	WG1731503
1,1,2-Trichloroethane	ND		1.00	1	08/29/2021 18:35	WG1731503
Trichloroethene	ND		1.00	1	08/29/2021 18:35	WG1731503
Trichlorofluoromethane	ND		5.00	1	08/29/2021 18:35	WG1731503
1,2,3-Trichloropropane	ND		2.50	1	08/29/2021 18:35	WG1731503
1,2,4-Trimethylbenzene	ND		1.00	1	08/29/2021 18:35	WG1731503
1,2,3-Trimethylbenzene	ND		1.00	1	08/29/2021 18:35	WG1731503
1,3,5-Trimethylbenzene	ND		1.00	1	08/29/2021 18:35	WG1731503
Vinyl chloride	ND		1.00	1	08/29/2021 18:35	WG1731503
Xylenes, Total	ND		3.00	1	08/29/2021 18:35	WG1731503
(S) Toluene-d8	105		80.0-120		08/29/2021 18:35	WG1731503
(S) Toluene-d8	109		80.0-120		09/02/2021 22:09	WG1734226
(S) 4-Bromofluorobenzene	101		77.0-126		08/29/2021 18:35	WG1731503
(S) 4-Bromofluorobenzene	103		77.0-126		09/02/2021 22:09	WG1734226
(S) 1,2-Dichloroethane-d4	106		70.0-130		08/29/2021 18:35	WG1731503
(S) 1,2-Dichloroethane-d4	109		70.0-130		09/02/2021 22:09	WG1734226



EDB / DBCP by Method 8011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylene Dibromide	ND		0.0200	1	08/26/2021 21:22	WG1729754
1,2-Dibromo-3-Chloropropane	ND		0.0200	1	08/26/2021 21:22	WG1729754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) High Fraction	ND		100	1	09/01/2021 20:48	WG1732559
(S) o-Terphenyl	117		31.0-160		09/01/2021 20:48	WG1732559

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
PCB 1016	ND		0.665	1.33	08/28/2021 17:41	WG1731009
PCB 1221	ND		0.665	1.33	08/28/2021 17:41	WG1731009
PCB 1232	ND		0.665	1.33	08/28/2021 17:41	WG1731009
PCB 1242	ND		0.665	1.33	08/28/2021 17:41	WG1731009
PCB 1248	ND		0.665	1.33	08/28/2021 17:41	WG1731009
PCB 1254	ND		0.665	1.33	08/28/2021 17:41	WG1731009

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
PCB 1260	ND		0.665	1.33	08/28/2021 17:41	WG1731009
(S) Decachlorobiphenyl	53.5		10.0-128		08/28/2021 17:41	WG1731009
(S) Tetrachloro-m-xylene	83.5		10.0-127		08/28/2021 17:41	WG1731009

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0500	1	08/26/2021 13:25	WG1728560
Acenaphthene	ND		0.0500	1	08/26/2021 13:25	WG1728560
Acenaphthylene	ND		0.0500	1	08/26/2021 13:25	WG1728560
Benzo(a)anthracene	ND		0.0500	1	08/26/2021 13:25	WG1728560
Benzo(a)pyrene	ND		0.0500	1	08/26/2021 13:25	WG1728560
Benzo(b)fluoranthene	ND		0.0500	1	08/26/2021 13:25	WG1728560
Benzo(g,h,i)perylene	ND		0.0500	1	08/26/2021 13:25	WG1728560
Benzo(k)fluoranthene	ND		0.0500	1	08/26/2021 13:25	WG1728560
Chrysene	ND		0.0500	1	08/26/2021 13:25	WG1728560
Dibenz(a,h)anthracene	ND		0.0500	1	08/26/2021 13:25	WG1728560
Fluoranthene	ND		0.100	1	08/26/2021 13:25	WG1728560
Fluorene	ND		0.0500	1	08/26/2021 13:25	WG1728560
Indeno(1,2,3-cd)pyrene	ND		0.0500	1	08/26/2021 13:25	WG1728560
Naphthalene	ND		0.250	1	08/26/2021 13:25	WG1728560
Phenanthrene	ND		0.0500	1	08/26/2021 13:25	WG1728560
Pyrene	ND		0.0500	1	08/26/2021 13:25	WG1728560
1-Methylnaphthalene	ND		0.250	1	08/26/2021 13:25	WG1728560
2-Methylnaphthalene	ND		0.250	1	08/26/2021 13:25	WG1728560
2-Chloronaphthalene	ND		0.250	1	08/26/2021 13:25	WG1728560
(S) Nitrobenzene-d5	109		31.0-160		08/26/2021 13:25	WG1728560
(S) 2-Fluorobiphenyl	112		48.0-148		08/26/2021 13:25	WG1728560
(S) p-Terphenyl-d14	134		37.0-146		08/26/2021 13:25	WG1728560

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND	J3	50.0	1	08/29/2021 17:00	WG1731503
Acrolein	ND		50.0	1	08/29/2021 17:00	WG1731503
Acrylonitrile	ND		10.0	1	08/29/2021 17:00	WG1731503
Benzene	ND		1.00	1	08/29/2021 17:00	WG1731503
Bromobenzene	ND		1.00	1	08/29/2021 17:00	WG1731503
Bromodichloromethane	ND		1.00	1	08/29/2021 17:00	WG1731503
Bromoform	ND		1.00	1	08/29/2021 17:00	WG1731503
Bromomethane	ND		5.00	1	08/29/2021 17:00	WG1731503
n-Butylbenzene	ND		1.00	1	08/29/2021 17:00	WG1731503
sec-Butylbenzene	ND		1.00	1	08/29/2021 17:00	WG1731503
tert-Butylbenzene	ND		1.00	1	08/29/2021 17:00	WG1731503
Carbon tetrachloride	ND		1.00	1	08/29/2021 17:00	WG1731503
Chlorobenzene	ND		1.00	1	08/29/2021 17:00	WG1731503
Chlorodibromomethane	ND		1.00	1	08/29/2021 17:00	WG1731503
Chloroethane	ND	J3	5.00	1	08/29/2021 17:00	WG1731503
Chloroform	ND		5.00	1	08/29/2021 17:00	WG1731503
Chloromethane	ND		2.50	1	08/29/2021 17:00	WG1731503
2-Chlorotoluene	ND		1.00	1	08/29/2021 17:00	WG1731503
4-Chlorotoluene	ND		1.00	1	08/29/2021 17:00	WG1731503
1,2-Dibromo-3-Chloropropane	ND		5.00	1	08/29/2021 17:00	WG1731503
1,2-Dibromoethane	ND		1.00	1	08/29/2021 17:00	WG1731503
Dibromomethane	ND		1.00	1	08/29/2021 17:00	WG1731503
1,2-Dichlorobenzene	ND		1.00	1	08/29/2021 17:00	WG1731503
1,3-Dichlorobenzene	ND		1.00	1	08/29/2021 17:00	WG1731503
1,4-Dichlorobenzene	ND		1.00	1	08/29/2021 17:00	WG1731503
Dichlorodifluoromethane	ND		5.00	1	08/29/2021 17:00	WG1731503
1,1-Dichloroethane	ND		1.00	1	08/29/2021 17:00	WG1731503
1,2-Dichloroethane	ND		1.00	1	08/29/2021 17:00	WG1731503
1,1-Dichloroethene	ND	J3 J4	1.00	1	08/29/2021 17:00	WG1731503
cis-1,2-Dichloroethene	ND		1.00	1	08/29/2021 17:00	WG1731503
trans-1,2-Dichloroethene	ND		1.00	1	08/29/2021 17:00	WG1731503
1,2-Dichloropropane	ND		1.00	1	08/29/2021 17:00	WG1731503
1,1-Dichloropropene	ND		1.00	1	08/29/2021 17:00	WG1731503
1,3-Dichloropropane	ND		1.00	1	08/29/2021 17:00	WG1731503
cis-1,3-Dichloropropene	ND		1.00	1	08/29/2021 17:00	WG1731503
trans-1,3-Dichloropropene	ND		1.00	1	08/29/2021 17:00	WG1731503
2,2-Dichloropropane	ND		1.00	1	08/29/2021 17:00	WG1731503
Di-isopropyl ether	ND		1.00	1	08/29/2021 17:00	WG1731503
Ethylbenzene	ND		1.00	1	08/29/2021 17:00	WG1731503
Hexachloro-1,3-butadiene	ND		1.00	1	08/29/2021 17:00	WG1731503
Isopropylbenzene	ND		1.00	1	08/29/2021 17:00	WG1731503
p-Isopropyltoluene	ND		1.00	1	08/29/2021 17:00	WG1731503
2-Butanone (MEK)	ND		10.0	1	08/29/2021 17:00	WG1731503
Methylene Chloride	ND		5.00	1	08/29/2021 17:00	WG1731503
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	08/29/2021 17:00	WG1731503
Methyl tert-butyl ether	ND		1.00	1	08/29/2021 17:00	WG1731503
Naphthalene	ND		5.00	1	08/29/2021 17:00	WG1731503
n-Propylbenzene	ND		1.00	1	08/29/2021 17:00	WG1731503
Styrene	ND		1.00	1	08/29/2021 17:00	WG1731503
1,1,1,2-Tetrachloroethane	ND		1.00	1	08/29/2021 17:00	WG1731503
1,1,2,2-Tetrachloroethane	ND		1.00	1	08/29/2021 17:00	WG1731503
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	09/02/2021 22:31	WG1734226
Tetrachloroethene	ND		1.00	1	08/29/2021 17:00	WG1731503
Toluene	ND		1.00	1	08/29/2021 17:00	WG1731503
1,2,3-Trichlorobenzene	ND		1.00	1	08/29/2021 17:00	WG1731503
1,2,4-Trichlorobenzene	ND		1.00	1	08/29/2021 17:00	WG1731503

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	08/29/2021 17:00	WG1731503
1,1,2-Trichloroethane	ND		1.00	1	08/29/2021 17:00	WG1731503
Trichloroethene	ND		1.00	1	08/29/2021 17:00	WG1731503
Trichlorofluoromethane	ND		5.00	1	08/29/2021 17:00	WG1731503
1,2,3-Trichloropropane	ND		2.50	1	08/29/2021 17:00	WG1731503
1,2,4-Trimethylbenzene	ND		1.00	1	08/29/2021 17:00	WG1731503
1,2,3-Trimethylbenzene	ND		1.00	1	08/29/2021 17:00	WG1731503
1,3,5-Trimethylbenzene	ND		1.00	1	08/29/2021 17:00	WG1731503
Vinyl chloride	ND		1.00	1	08/29/2021 17:00	WG1731503
Xylenes, Total	ND		3.00	1	08/29/2021 17:00	WG1731503
(S) Toluene-d8	104		80.0-120		08/29/2021 17:00	WG1731503
(S) Toluene-d8	109		80.0-120		09/02/2021 22:31	WG1734226
(S) 4-Bromofluorobenzene	102		77.0-126		08/29/2021 17:00	WG1731503
(S) 4-Bromofluorobenzene	104		77.0-126		09/02/2021 22:31	WG1734226
(S) 1,2-Dichloroethane-d4	104		70.0-130		08/29/2021 17:00	WG1731503
(S) 1,2-Dichloroethane-d4	109		70.0-130		09/02/2021 22:31	WG1734226

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3699410-1 09/01/21 14:37

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

¹Cp

²Tc

³Ss

L1394940-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1394940-06 09/01/21 14:37 • (DUP) R3699410-3 09/01/21 14:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	78.5	78.3	1	0.149		10

⁴Cn

⁵Sr

Laboratory Control Sample (LCS)

(LCS) R3699410-2 09/01/21 14:37

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3698875-1 08/31/21 14:17

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

¹Cp

²Tc

³Ss

L1394946-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1394946-07 08/31/21 14:17 • (DUP) R3698875-3 08/31/21 14:17

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	86.3	86.2	1	0.112		10

⁴Cn

⁵Sr

Laboratory Control Sample (LCS)

(LCS) R3698875-2 08/31/21 14:17

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3699883-1 09/02/21 09:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

1 Cp

2 Tc

3 Ss

L1394950-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1394950-01 09/02/21 09:00 • (DUP) R3699883-3 09/02/21 09:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	48.8	48.7	1	0.260		10

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3699883-2 09/02/21 09:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3697438-1 08/27/21 13:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Mercury	U		0.100	0.200

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R3697438-2 08/27/21 13:45

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Mercury	3.00	2.66	88.7	80.0-120	

4 Cn

5 Sr

L1393756-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393756-01 08/27/21 13:48 • (MS) R3697438-3 08/27/21 13:50 • (MSD) R3697438-4 08/27/21 13:52

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Mercury	3.00	ND	2.94	3.10	98.0	103	1	75.0-125			5.30	20

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3697669-1 08/28/21 13:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Mercury	U		0.0180	0.0400

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R3697669-2 08/28/21 13:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Mercury	0.500	0.496	99.2	80.0-120	

4 Cn

5 Sr

L1394946-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1394946-09 08/28/21 13:23 • (MS) R3697669-3 08/28/21 13:25 • (MSD) R3697669-4 08/28/21 13:28

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Mercury	0.580	ND	0.526	0.536	90.7	92.3	1	75.0-125			1.80	20

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3698898-1 09/01/21 02:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Lead	U		0.208	0.500
Selenium	0.784	J	0.764	2.00
Silver	U		0.127	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

Laboratory Control Sample (LCS)

(LCS) R3698898-2 09/01/21 03:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	97.0	97.0	80.0-120	
Barium	100	102	102	80.0-120	
Cadmium	100	96.4	96.4	80.0-120	
Chromium	100	98.8	98.8	80.0-120	
Lead	100	99.3	99.3	80.0-120	
Selenium	100	97.8	97.8	80.0-120	
Silver	20.0	17.6	87.8	80.0-120	

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1394929-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1394929-01 09/01/21 03:03 • (MS) R3698898-5 09/01/21 03:11 • (MSD) R3698898-6 09/01/21 03:14

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	5.21	96.7	97.3	91.5	92.1	1	75.0-125			0.647	20
Barium	100	48.5	147	139	98.6	90.7	1	75.0-125			5.47	20
Cadmium	100	ND	91.7	91.9	91.4	91.5	1	75.0-125			0.148	20
Chromium	100	12.6	106	106	93.7	93.7	1	75.0-125			0.0825	20
Lead	100	9.65	109	109	99.4	99.4	1	75.0-125			0.0217	20
Selenium	100	ND	92.7	94.1	91.0	92.4	1	75.0-125			1.49	20
Silver	20.0	ND	17.0	17.1	84.9	85.5	1	75.0-125			0.627	20

Method Blank (MB)

(MB) R3697002-1 08/26/21 14:44

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Arsenic	U		0.180	2.00
Barium	U		0.381	2.00
Cadmium	U		0.150	1.00
Chromium	U		1.24	2.00
Lead	U		0.849	2.00
Selenium	U		0.300	2.00
Silver	U		0.0700	2.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3697002-2 08/26/21 14:48

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Arsenic	50.0	44.3	88.7	80.0-120	
Barium	50.0	45.9	91.7	80.0-120	
Cadmium	50.0	48.3	96.5	80.0-120	
Chromium	50.0	47.6	95.2	80.0-120	
Lead	50.0	46.8	93.6	80.0-120	
Selenium	50.0	48.8	97.7	80.0-120	
Silver	50.0	49.3	98.5	80.0-120	

L1394959-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1394959-07 08/26/21 14:51 • (MS) R3697002-4 08/26/21 14:58 • (MSD) R3697002-5 08/26/21 15:02

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Arsenic	50.0	8.14	55.5	53.0	94.8	89.7	1	75.0-125			4.65	20
Barium	50.0	96.3	137	139	81.8	85.7	1	75.0-125			1.41	20
Cadmium	50.0	ND	51.1	50.2	102	100	1	75.0-125			1.72	20
Chromium	50.0	8.91	58.8	55.5	99.7	93.2	1	75.0-125			5.65	20
Lead	50.0	ND	49.3	48.8	95.3	94.3	1	75.0-125			0.989	20
Selenium	50.0	ND	49.9	48.6	99.8	97.2	1	75.0-125			2.66	20
Silver	50.0	ND	50.3	50.9	101	102	1	75.0-125			1.23	20

Method Blank (MB)

(MB) R3700418-2 08/30/21 19:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	U		0.0339	0.100
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3700418-1 08/30/21 18:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5.50	5.27	95.8	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			100	77.0-120	

L1394847-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1394847-14 08/30/21 19:47 • (MS) R3700418-3 08/31/21 05:12 • (MSD) R3700418-4 08/31/21 05:34

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	174	ND	180	171	104	98.6	25.5	10.0-149			4.95	27
(S) a,a,a-Trifluorotoluene(FID)					105	103		77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3699747-3 08/29/21 14:22

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3699747-3 08/29/21 14:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	2.22	<u>J</u>	1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	105			80.0-120
(S) 4-Bromofluorobenzene	107			77.0-126
(S) 1,2-Dichloroethane-d4	104			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3699747-1 08/29/21 13:06 • (LCSD) R3699747-2 08/29/21 13:25

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Acetone	25.0	25.4	14.7	102	58.8	19.0-160		<u>J3</u>	53.4	27
Acrolein	25.0	12.7	13.0	50.8	52.0	10.0-160			2.33	26
Acrylonitrile	25.0	26.6	26.3	106	105	55.0-149			1.13	20
Benzene	5.00	4.98	4.63	99.6	92.6	70.0-123			7.28	20
Bromobenzene	5.00	5.03	4.78	101	95.6	73.0-121			5.10	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3699747-1 08/29/21 13:06 • (LCSD) R3699747-2 08/29/21 13:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromodichloromethane	5.00	4.86	4.57	97.2	91.4	75.0-120			6.15	20
Bromoform	5.00	4.68	4.66	93.6	93.2	68.0-132			0.428	20
Bromomethane	5.00	5.34	5.07	107	101	10.0-160			5.19	25
n-Butylbenzene	5.00	4.81	4.47	96.2	89.4	73.0-125			7.33	20
sec-Butylbenzene	5.00	4.81	4.50	96.2	90.0	75.0-125			6.66	20
tert-Butylbenzene	5.00	4.88	4.50	97.6	90.0	76.0-124			8.10	20
Carbon tetrachloride	5.00	4.68	4.11	93.6	82.2	68.0-126			13.0	20
Chlorobenzene	5.00	5.19	4.91	104	98.2	80.0-121			5.54	20
Chlorodibromomethane	5.00	5.01	4.79	100	95.8	77.0-125			4.49	20
Chloroethane	5.00	4.53	3.57	90.6	71.4	47.0-150		J3	23.7	20
Chloroform	5.00	5.11	4.79	102	95.8	73.0-120			6.46	20
Chloromethane	5.00	5.07	4.74	101	94.8	41.0-142			6.73	20
2-Chlorotoluene	5.00	5.46	5.00	109	100	76.0-123			8.80	20
4-Chlorotoluene	5.00	5.06	4.74	101	94.8	75.0-122			6.53	20
1,2-Dibromo-3-Chloropropane	5.00	4.35	4.36	87.0	87.2	58.0-134			0.230	20
1,2-Dibromoethane	5.00	5.02	4.87	100	97.4	80.0-122			3.03	20
Dibromomethane	5.00	5.04	4.97	101	99.4	80.0-120			1.40	20
1,2-Dichlorobenzene	5.00	5.13	4.81	103	96.2	79.0-121			6.44	20
1,3-Dichlorobenzene	5.00	5.16	4.91	103	98.2	79.0-120			4.97	20
1,4-Dichlorobenzene	5.00	5.16	4.90	103	98.0	79.0-120			5.17	20
Dichlorodifluoromethane	5.00	6.45	5.77	129	115	51.0-149			11.1	20
1,1-Dichloroethane	5.00	5.20	4.71	104	94.2	70.0-126			9.89	20
1,2-Dichloroethane	5.00	5.04	4.91	101	98.2	70.0-128			2.61	20
1,1-Dichloroethene	5.00	4.51	3.30	90.2	66.0	71.0-124		J3 J4	31.0	20
cis-1,2-Dichloroethene	5.00	5.10	4.73	102	94.6	73.0-120			7.53	20
trans-1,2-Dichloroethene	5.00	5.32	4.87	106	97.4	73.0-120			8.83	20
1,2-Dichloropropane	5.00	4.80	4.61	96.0	92.2	77.0-125			4.04	20
1,1-Dichloropropene	5.00	5.36	4.79	107	95.8	74.0-126			11.2	20
1,3-Dichloropropane	5.00	4.94	4.81	98.8	96.2	80.0-120			2.67	20
cis-1,3-Dichloropropene	5.00	5.07	4.90	101	98.0	80.0-123			3.41	20
trans-1,3-Dichloropropene	5.00	5.09	4.78	102	95.6	78.0-124			6.28	20
2,2-Dichloropropane	5.00	5.66	5.26	113	105	58.0-130			7.33	20
Di-isopropyl ether	5.00	4.96	4.71	99.2	94.2	58.0-138			5.17	20
Ethylbenzene	5.00	5.34	4.76	107	95.2	79.0-123			11.5	20
Hexachloro-1,3-butadiene	5.00	4.99	4.85	99.8	97.0	54.0-138			2.85	20
Isopropylbenzene	5.00	5.43	4.90	109	98.0	76.0-127			10.3	20
p-Isopropyltoluene	5.00	4.93	4.58	98.6	91.6	76.0-125			7.36	20
2-Butanone (MEK)	25.0	24.7	23.1	98.8	92.4	44.0-160			6.69	20
Methylene Chloride	5.00	3.86	3.63	77.2	72.6	67.0-120			6.14	20
4-Methyl-2-pentanone (MIBK)	25.0	25.0	24.3	100	97.2	68.0-142			2.84	20

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3699747-1 08/29/21 13:06 • (LCSD) R3699747-2 08/29/21 13:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Methyl tert-butyl ether	5.00	4.99	4.88	99.8	97.6	68.0-125			2.23	20
Naphthalene	5.00	4.17	4.27	83.4	85.4	54.0-135			2.37	20
n-Propylbenzene	5.00	5.31	4.85	106	97.0	77.0-124			9.06	20
Styrene	5.00	4.83	4.61	96.6	92.2	73.0-130			4.66	20
1,1,1,2-Tetrachloroethane	5.00	5.22	4.85	104	97.0	75.0-125			7.35	20
1,1,2,2-Tetrachloroethane	5.00	4.90	4.62	98.0	92.4	65.0-130			5.88	20
Tetrachloroethene	5.00	5.90	4.99	118	99.8	72.0-132			16.7	20
Toluene	5.00	5.35	4.81	107	96.2	79.0-120			10.6	20
1,2,3-Trichlorobenzene	5.00	3.69	3.69	73.8	73.8	50.0-138			0.000	20
1,2,4-Trichlorobenzene	5.00	4.37	4.28	87.4	85.6	57.0-137			2.08	20
1,1,1-Trichloroethane	5.00	4.67	4.18	93.4	83.6	73.0-124			11.1	20
1,1,2-Trichloroethane	5.00	5.07	4.93	101	98.6	80.0-120			2.80	20
Trichloroethene	5.00	5.31	4.97	106	99.4	78.0-124			6.61	20
Trichlorofluoromethane	5.00	5.04	4.65	101	93.0	59.0-147			8.05	20
1,2,3-Trichloropropane	5.00	4.85	4.72	97.0	94.4	73.0-130			2.72	20
1,2,3-Trimethylbenzene	5.00	4.86	4.57	97.2	91.4	77.0-120			6.15	20
1,2,4-Trimethylbenzene	5.00	4.79	4.56	95.8	91.2	76.0-121			4.92	20
1,3,5-Trimethylbenzene	5.00	4.98	4.53	99.6	90.6	76.0-122			9.46	20
Vinyl chloride	5.00	5.62	4.63	112	92.6	67.0-131			19.3	20
Xylenes, Total	15.0	16.0	14.5	107	96.7	79.0-123			9.84	20
(S) Toluene-d8				106	104	80.0-120				
(S) 4-Bromofluorobenzene				103	102	77.0-126				
(S) 1,2-Dichloroethane-d4				104	107	70.0-130				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3700099-3 09/02/21 18:19

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
(S) Toluene-d8	108			80.0-120
(S) 4-Bromofluorobenzene	103			77.0-126
(S) 1,2-Dichloroethane-d4	112			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3700099-1 09/02/21 16:53 • (LCSD) R3700099-2 09/02/21 17:14

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
1,1,2-Trichlorotrifluoroethane	5.00	4.60	4.35	92.0	87.0	69.0-132			5.59	20
(S) Toluene-d8				109	107	80.0-120				
(S) 4-Bromofluorobenzene				107	107	77.0-126				
(S) 1,2-Dichloroethane-d4				111	111	70.0-130				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3697798-1 08/26/21 17:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Ethylene Dibromide	U		0.00536	0.0200
1,2-Dibromo-3-Chloropropane	U		0.00748	0.0200

L1394873-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1394873-01 08/26/21 18:43 • (DUP) R3697798-3 08/26/21 18:31

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l	%	%		%
Ethylene Dibromide	ND	ND	1	0.000		20
1,2-Dibromo-3-Chloropropane	ND	ND	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3697798-4 08/26/21 20:45 • (LCSD) R3697798-5 08/26/21 23:23

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Ethylene Dibromide	0.250	0.311	0.290	124	116	60.0-140			6.99	20
1,2-Dibromo-3-Chloropropane	0.250	0.287	0.272	115	109	60.0-140			5.37	20

L1394873-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1394873-02 08/26/21 18:19 • (MS) R3697798-2 08/26/21 18:07

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	ug/l	ug/l	ug/l	%		%	
Ethylene Dibromide	0.100	ND	0.106	106	1	64.0-159	
1,2-Dibromo-3-Chloropropane	0.100	ND	0.0880	88.0	1	72.0-148	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3699011-1 09/01/21 09:40

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
TPH (GC/FID) High Fraction	U		24.7	100
<i>(S) o-Terphenyl</i>	102			31.0-160

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3699011-2 09/01/21 10:06 • (LCSD) R3699011-3 09/01/21 10:32

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1500	1760	1670	117	111	50.0-150			5.25	20
<i>(S) o-Terphenyl</i>				146	133	31.0-160				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3699310-1 09/01/21 12:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
<i>(S) o-Terphenyl</i>	53.2			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3699310-2 09/01/21 12:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	31.9	63.8	50.0-150	
<i>(S) o-Terphenyl</i>			46.4	18.0-148	

L1394950-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1394950-02 09/03/21 02:51 • (MS) R3700186-1 09/03/21 03:04 • (MSD) R3700186-2 09/03/21 03:17

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	108	377	153	320	0.000	0.000	2	50.0-150	J6	J3 J6	70.4	20
<i>(S) o-Terphenyl</i>					49.0	71.8		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3697766-1 08/28/21 15:03

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
PCB 1260	U		0.173	0.500
PCB 1016	U		0.270	0.500
PCB 1221	U		0.270	0.500
PCB 1232	U		0.270	0.500
PCB 1242	U		0.270	0.500
PCB 1248	U		0.173	0.500
PCB 1254	U		0.173	0.500
(S) Decachlorobiphenyl	64.7			10.0-128
(S) Tetrachloro-m-xylene	97.4			10.0-127

Laboratory Control Sample (LCS)

(LCS) R3697766-5 08/28/21 15:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1260	2.50	2.17	86.8	42.0-131	
PCB 1016	2.50	2.51	100	36.0-135	
(S) Decachlorobiphenyl			54.7	10.0-128	
(S) Tetrachloro-m-xylene			98.1	10.0-127	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3699605-1 09/02/21 00:12

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	156	<u>J1</u>		10.0-135
(S) Tetrachloro-m-xylene	140	<u>J1</u>		10.0-139

Laboratory Control Sample (LCS)

(LCS) R3699605-2 09/02/21 00:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
PCB 1260	0.167	0.261	156	37.0-145	<u>J4</u>
PCB 1016	0.167	0.245	147	36.0-141	<u>J4</u>
(S) Decachlorobiphenyl			146	10.0-135	<u>J1</u>
(S) Tetrachloro-m-xylene			146	10.0-139	<u>J1</u>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3696973-3 08/26/21 07:38

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Anthracene	U		0.0190	0.0500
Acenaphthene	U		0.0190	0.0500
Acenaphthylene	U		0.0171	0.0500
Benzo(a)anthracene	U		0.0203	0.0500
Benzo(a)pyrene	U		0.0184	0.0500
Benzo(b)fluoranthene	U		0.0168	0.0500
Benzo(g,h,i)perylene	U		0.0184	0.0500
Benzo(k)fluoranthene	U		0.0202	0.0500
Chrysene	U		0.0179	0.0500
Dibenz(a,h)anthracene	U		0.0160	0.0500
Fluoranthene	U		0.0270	0.100
Fluorene	U		0.0169	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500
Naphthalene	U		0.0917	0.250
Phenanthrene	U		0.0180	0.0500
Pyrene	U		0.0169	0.0500
1-Methylnaphthalene	U		0.0687	0.250
2-Methylnaphthalene	U		0.0674	0.250
2-Chloronaphthalene	U		0.0682	0.250
(S) Nitrobenzene-d5	109			31.0-160
(S) 2-Fluorobiphenyl	110			48.0-148
(S) p-Terphenyl-d14	134			37.0-146

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3696973-1 08/26/21 07:04 • (LCSD) R3696973-2 08/26/21 07:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	2.00	2.12	2.13	106	106	67.0-150			0.471	20
Acenaphthene	2.00	2.10	2.11	105	105	65.0-138			0.475	20
Acenaphthylene	2.00	2.23	2.24	111	112	66.0-140			0.447	20
Benzo(a)anthracene	2.00	2.18	2.14	109	107	61.0-140			1.85	20
Benzo(a)pyrene	2.00	2.02	2.03	101	102	60.0-143			0.494	20
Benzo(b)fluoranthene	2.00	2.05	2.04	103	102	58.0-141			0.489	20
Benzo(g,h,i)perylene	2.00	2.01	2.06	100	103	52.0-153			2.46	20
Benzo(k)fluoranthene	2.00	2.02	2.05	101	103	58.0-148			1.47	20
Chrysene	2.00	2.10	2.08	105	104	64.0-144			0.957	20
Dibenz(a,h)anthracene	2.00	2.03	2.04	102	102	52.0-155			0.491	20
Fluoranthene	2.00	2.10	2.14	105	107	69.0-153			1.89	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3696973-1 08/26/21 07:04 • (LCSD) R3696973-2 08/26/21 07:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Fluorene	2.00	2.11	2.13	105	106	64.0-136			0.943	20
Indeno(1,2,3-cd)pyrene	2.00	2.02	2.05	101	103	54.0-153			1.47	20
Naphthalene	2.00	2.06	2.08	103	104	61.0-137			0.966	20
Phenanthrene	2.00	2.10	2.14	105	107	62.0-137			1.89	20
Pyrene	2.00	2.15	2.13	107	106	60.0-142			0.935	20
1-Methylnaphthalene	2.00	2.09	2.10	104	105	66.0-142			0.477	20
2-Methylnaphthalene	2.00	1.98	2.00	99.0	100	62.0-136			1.01	20
2-Chloronaphthalene	2.00	2.05	2.07	103	104	64.0-140			0.971	20
<i>(S) Nitrobenzene-d5</i>				108	108	31.0-160				
<i>(S) 2-Fluorobiphenyl</i>				105	107	48.0-148				
<i>(S) p-Terphenyl-d14</i>				129	128	37.0-146				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3698928-2 08/31/21 18:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	0.00352	U	0.00230	0.00600
Acenaphthene	0.00263	U	0.00209	0.00600
Acenaphthylene	0.00245	U	0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	0.00495	U	0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	0.00393	U	0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	0.00435	U	0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	61.0			14.0-149
(S) 2-Fluorobiphenyl	77.1			34.0-125
(S) p-Terphenyl-d14	103			23.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3698928-1 08/31/21 18:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0604	75.5	50.0-126	
Acenaphthene	0.0800	0.0614	76.8	50.0-120	
Acenaphthylene	0.0800	0.0641	80.1	50.0-120	
Benzo(a)anthracene	0.0800	0.0591	73.9	45.0-120	
Benzo(a)pyrene	0.0800	0.0540	67.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0592	74.0	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0572	71.5	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0589	73.6	49.0-125	
Chrysene	0.0800	0.0622	77.8	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0562	70.3	47.0-125	
Fluoranthene	0.0800	0.0638	79.8	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3698928-1 08/31/21 18:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Fluorene	0.0800	0.0627	78.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0536	67.0	46.0-125	
Naphthalene	0.0800	0.0586	73.3	50.0-120	
Phenanthrene	0.0800	0.0595	74.4	47.0-120	
Pyrene	0.0800	0.0666	83.3	43.0-123	
1-Methylnaphthalene	0.0800	0.0630	78.8	51.0-121	
2-Methylnaphthalene	0.0800	0.0589	73.6	50.0-120	
2-Chloronaphthalene	0.0800	0.0592	74.0	50.0-120	
(S) Nitrobenzene-d5			72.8	14.0-149	
(S) 2-Fluorobiphenyl			80.6	34.0-125	
(S) p-Terphenyl-d14			101	23.0-120	

L1393652-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393652-05 09/01/21 00:31 • (MS) R3698928-3 09/01/21 00:48 • (MSD) R3698928-4 09/01/21 01:06

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Anthracene	0.0776	0.0177	0.0799	0.0883	80.2	91.9	1	10.0-145			9.99	30
Acenaphthene	0.0776	ND	0.0643	0.0690	76.7	83.6	1	14.0-127			7.05	27
Acenaphthylene	0.0776	0.0123	0.0714	0.0771	76.2	84.4	1	21.0-124			7.68	25
Benzo(a)anthracene	0.0776	0.130	0.199	0.220	88.9	117	1	10.0-139			10.0	30
Benzo(a)pyrene	0.0776	0.173	0.240	0.247	86.3	96.4	1	10.0-141			2.87	31
Benzo(b)fluoranthene	0.0776	0.270	0.347	0.347	99.2	100	1	10.0-140			0.000	36
Benzo(g,h,i)perylene	0.0776	0.159	0.227	0.218	87.6	76.8	1	10.0-140			4.04	33
Benzo(k)fluoranthene	0.0776	0.0954	0.150	0.158	70.4	81.5	1	10.0-137			5.19	31
Chrysene	0.0776	0.193	0.279	0.281	111	115	1	10.0-145			0.74	30
Dibenz(a,h)anthracene	0.0776	0.0277	0.0764	0.0778	62.8	65.2	1	10.0-132			1.82	31
Fluoranthene	0.0776	0.306	0.479	0.447	223	184	1	10.0-153	J5	J5	6.91	33
Fluorene	0.0776	ND	0.0637	0.0747	76.7	91.8	1	11.0-130			15.9	29
Indeno(1,2,3-cd)pyrene	0.0776	0.168	0.221	0.220	68.3	67.7	1	10.0-137			0.454	32
Naphthalene	0.0776	ND	0.0609	0.0639	72.3	76.9	1	10.0-135			4.81	27
Phenanthrene	0.0776	0.0973	0.191	0.203	121	138	1	10.0-144			6.09	31
Pyrene	0.0776	0.281	0.431	0.421	193	182	1	10.0-148	J5	J5	2.35	35
1-Methylnaphthalene	0.0776	ND	0.0648	0.0674	83.5	87.8	1	10.0-142			3.93	28
2-Methylnaphthalene	0.0776	ND	0.0622	0.0652	80.2	84.9	1	10.0-137			4.71	28
2-Chloronaphthalene	0.0776	ND	0.0515	0.0560	66.4	72.9	1	29.0-120			8.37	24
(S) Nitrobenzene-d5					68.9	64.3		14.0-149				
(S) 2-Fluorobiphenyl					75.2	76.3		34.0-125				
(S) p-Terphenyl-d14					94.1	96.4		23.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3699000-2 08/31/21 22:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	68.6			14.0-149
(S) 2-Fluorobiphenyl	68.5			34.0-125
(S) p-Terphenyl-d14	86.9			23.0-120

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3699000-1 08/31/21 22:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0599	74.9	50.0-126	
Acenaphthene	0.0800	0.0582	72.8	50.0-120	
Acenaphthylene	0.0800	0.0629	78.6	50.0-120	
Benzo(a)anthracene	0.0800	0.0594	74.3	45.0-120	
Benzo(a)pyrene	0.0800	0.0548	68.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0567	70.9	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0500	62.5	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0569	71.1	49.0-125	
Chrysene	0.0800	0.0574	71.8	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0519	64.9	47.0-125	
Fluoranthene	0.0800	0.0565	70.6	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3699000-1 08/31/21 22:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0571	71.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0523	65.4	46.0-125	
Naphthalene	0.0800	0.0572	71.5	50.0-120	
Phenanthrene	0.0800	0.0586	73.3	47.0-120	
Pyrene	0.0800	0.0566	70.8	43.0-123	
1-Methylnaphthalene	0.0800	0.0555	69.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0529	66.1	50.0-120	
2-Chloronaphthalene	0.0800	0.0561	70.1	50.0-120	
(S) Nitrobenzene-d5			76.9	14.0-149	
(S) 2-Fluorobiphenyl			72.3	34.0-125	
(S) p-Terphenyl-d14			87.9	23.0-120	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3699000-3 08/31/21 23:11 • (MSD) R3699000-4 08/31/21 23:28

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0760		0.0687	0.0716	90.4	93.2	1	10.0-145			4.13	30
Acenaphthene	0.0760		0.0669	0.0684	88.0	89.1	1	14.0-127			2.22	27
Acenaphthylene	0.0760		0.0721	0.0737	94.9	96.0	1	21.0-124			2.19	25
Benzo(a)anthracene	0.0760		0.0663	0.0727	87.2	94.7	1	10.0-139			9.21	30
Benzo(a)pyrene	0.0760		0.0652	0.0689	85.8	89.7	1	10.0-141			5.52	31
Benzo(b)fluoranthene	0.0760		0.0658	0.0692	82.4	86.0	1	10.0-140			5.04	36
Benzo(g,h,i)perylene	0.0760		0.0633	0.0650	83.3	84.6	1	10.0-140			2.65	33
Benzo(k)fluoranthene	0.0760		0.0618	0.0656	81.3	85.4	1	10.0-137			5.97	31
Chrysene	0.0760		0.0663	0.0717	87.2	93.4	1	10.0-145			7.83	30
Dibenz(a,h)anthracene	0.0760		0.0637	0.0677	83.8	88.2	1	10.0-132			6.09	31
Fluoranthene	0.0760		0.0660	0.0686	86.8	89.3	1	10.0-153			3.86	33
Fluorene	0.0760		0.0651	0.0667	85.7	86.8	1	11.0-130			2.43	29
Indeno(1,2,3-cd)pyrene	0.0760		0.0645	0.0682	84.9	88.8	1	10.0-137			5.58	32
Naphthalene	0.0760		0.0646	0.0667	85.0	86.8	1	10.0-135			3.20	27
Phenanthrene	0.0760		0.0686	0.0702	90.3	91.4	1	10.0-144			2.31	31
Pyrene	0.0760		0.0653	0.0709	83.2	89.6	1	10.0-148			8.22	35
1-Methylnaphthalene	0.0760		0.0647	0.0660	85.1	85.9	1	10.0-142			1.99	28
2-Methylnaphthalene	0.0760		0.0624	0.0632	82.1	82.3	1	10.0-137			1.27	28
2-Chloronaphthalene	0.0760		0.0640	0.0658	84.2	85.7	1	29.0-120			2.77	24
(S) Nitrobenzene-d5					90.2	88.8		14.0-149				
(S) 2-Fluorobiphenyl					86.9	84.9		34.0-125				
(S) p-Terphenyl-d14					99.2	105		23.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

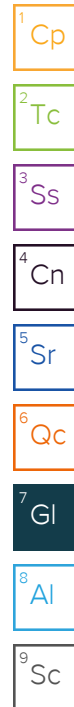
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P	RPD between the primary and confirmatory analysis exceeded 40%.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

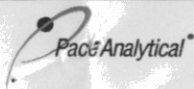
⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Container Preservative Type **

Lab Project Manager:

U 6 U U

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:

Lab Sample # Comments:

11394946

-01
-02
-03
-04
-05
-06
-07
-08
-09
-10

Container Type: Plastic (P) or Glass (G)

TPH-Dx
824C - Gasoline
PCRA 8 metals
PAHs
PCBs

Company: NewFields
Address: 700 SW Higgins, Suite 15, Missoula, MT 59803
Report To: wwelzenbach@newfields.com
Copy To: sberkelhammer@newfields.com
Customer Project Name/Number: Blue North Mill. 350.0515.001
Phone: [] Site/Facility ID #: []
Email: []
Collected By (print): S. M. Berkelhammer
Collected By (signature): [Signature]
Sample Disposal: [] Dispose as appropriate, [] Return, [] Archive, [X] Hold

Billing Information: NewFields (attn: Dawn Violette)
700 SW Higgins, Suite 15
Missoula, MT 59803
Email To: dviolette@newfields.com
Site Collection Info/Address: 283 Woodland Rd Kamiah, ID
State: County/City: Time Zone Collected: ID / Idaho County [X]PT []MT []CT []ET
Compliance Monitoring? [] Yes [] No
DW PWS ID #: DW Location Code:
Immediately Packed on Ice: [X] Yes [] No
Field Filtered (if applicable): [] Yes [X] No
Analysis: []

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
SS-1	SL	Comp			8/18/21	1205	16	G
SS-2	SL	Comp			8-18-21	1520	16	G
SS-4	SL	Comp			8-18-21	1730	16	G
SS-3	SL	Comp			8-18-21	940	16	G
SS-6	SL	Comp			8-18-21	1200	16	G
SS-8	SL	Comp			8-18-21	1400	16	G
SS- 8 5	SL	Comp			8-18-21	1530	16	G
SS-9	SL	Comp			8-18-21	1700	16	G
SS-7	SL	Comp			8-18-21	1750	16	G
SS-10	SL	Comp			8-20-21	800	1	

Customer Remarks / Special Conditions / Possible Hazards:
The 12x 40ml vials are for the lab to composite. One vial in bubble bag is labelled per composite sample.

Type of Ice Used: Wet Blue Dry None
Packing Material Used:
Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
Lab Tracking #:
Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: A30T 3.1
Cooler 1 Temp Upon Receipt: 10.0C
Cooler 1 Therm Corr. Factor: 3.1C
Cooler 1 Corrected Temp: 3.1C
Comments:

Relinquished by/Company: (Signature) [Signature] / NewFields
Date/Time: 8/23/21 1200

Received by/Company: (Signature) [Signature]
Date/Time: 8/23/21 900

Acctnum: A022
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other
Non Conformance(s): YES / NO
Page: 1 of 2

Fedex = 517 4436 3550 / 5163 7715 4380

Tr = 158



CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: NewFields		Billing Information: NewFields (attn: Dawn Violette)	
Address: 700 SW Higgins, Suite 15, Missoula, MT 59803		700 SW Higgins, Suite 15 Missoula, MT 59803	
Report To: wwelzenbach@newfields.com rcotter@newfields.com		Email To: dviolette@newfields.com	
Copy To: sberkelhammer@newfields.com bmorter@newfields.com		Site Collection Info/Address: 283 Woodland Rd	
Customer Project Name/Number: Blue North Mill. 350.0515.001		State: County/City: Time Zone Collected: ID / Idaho County [x]PT []MT []CT []ET	
Phone:	Site/Facility ID #:	Compliance Monitoring? [] Yes [] No	
Email:	Purchase Order #:	DW PWS ID #:	
Collected By (print):	Quote #:	DW Location Code:	
Collected By (signature):	Turnaround Date Required: Standard	Immediately Packed on Ice: [X] Yes [] No	
Sample Disposal: [] Dispose as appropriate [] Return [] Archive: [x] Hold:	Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day	Field Filtered (if applicable): [] Yes [X] No	

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

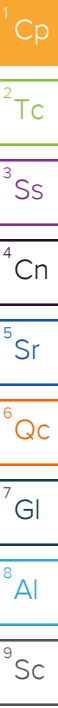
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
SS-ERB	Water	Grab	8-19-21	1410			13	P/G
Trip Blank	Water	Grab	-	-			2	G

Analyses		Lab Profile/Line:	
Container Type: Plastic (P) or Glass (G)	8082	Lab Sample Receipt Checklist:	
	DROLVI	Custody Seals Present/Intact Y N NA	
	M6020 RCRAS	Custody Signatures Present Y N NA	
	SV8011	Collector Signature Present Y N NA	
	V826C	Bottles Intact Y N NA	
	RAH SIMLVI	Correct Bottles Y N NA	
		Sufficient Volume Y N NA	
		Samples Received on Ice Y N NA	
		VOA - Headspace Acceptable Y N NA	
		USDA Regulated Soils Y N NA	
	Samples in Holding Time Y N NA		
	Residual Chlorine Present Y N NA		
	Cl Strips: _____		
	Sample pH Acceptable Y N NA		
	pH Strips: _____		
	Sulfide Present Y N NA		
	Lead Acetate Strips: _____		
	LAB USE ONLY:		
	Lab Sample # / Comments: LI394996 -15 -12		

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y N N/A	LAB Sample Temperature Info: Temp Blank Received: Y N NA Therm ID#: H30T Cooler 1 Temp Upon Receipt: 31 °C Cooler 1 Therm Corr. Factor: 1.2 °C Cooler 1 Corrected Temp: 3.1 °C Comments:
	Packing Material Used:	Lab Tracking #:	
	Radchem sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY Table #: Acctnum: Template: Prelogin: PM: PB:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
				Trip Blank Received: Y N NA HCL MeOH TSP Other Non Conformance(s): Page: 2 YES / NO of: 2

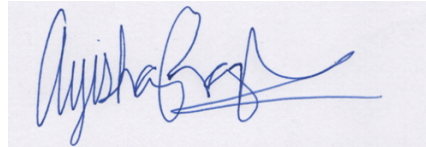


NewFields - Missoula MT

Sample Delivery Group: L1394950
Samples Received: 08/25/2021
Project Number: 350.0515.001
Description: Blue North Mill

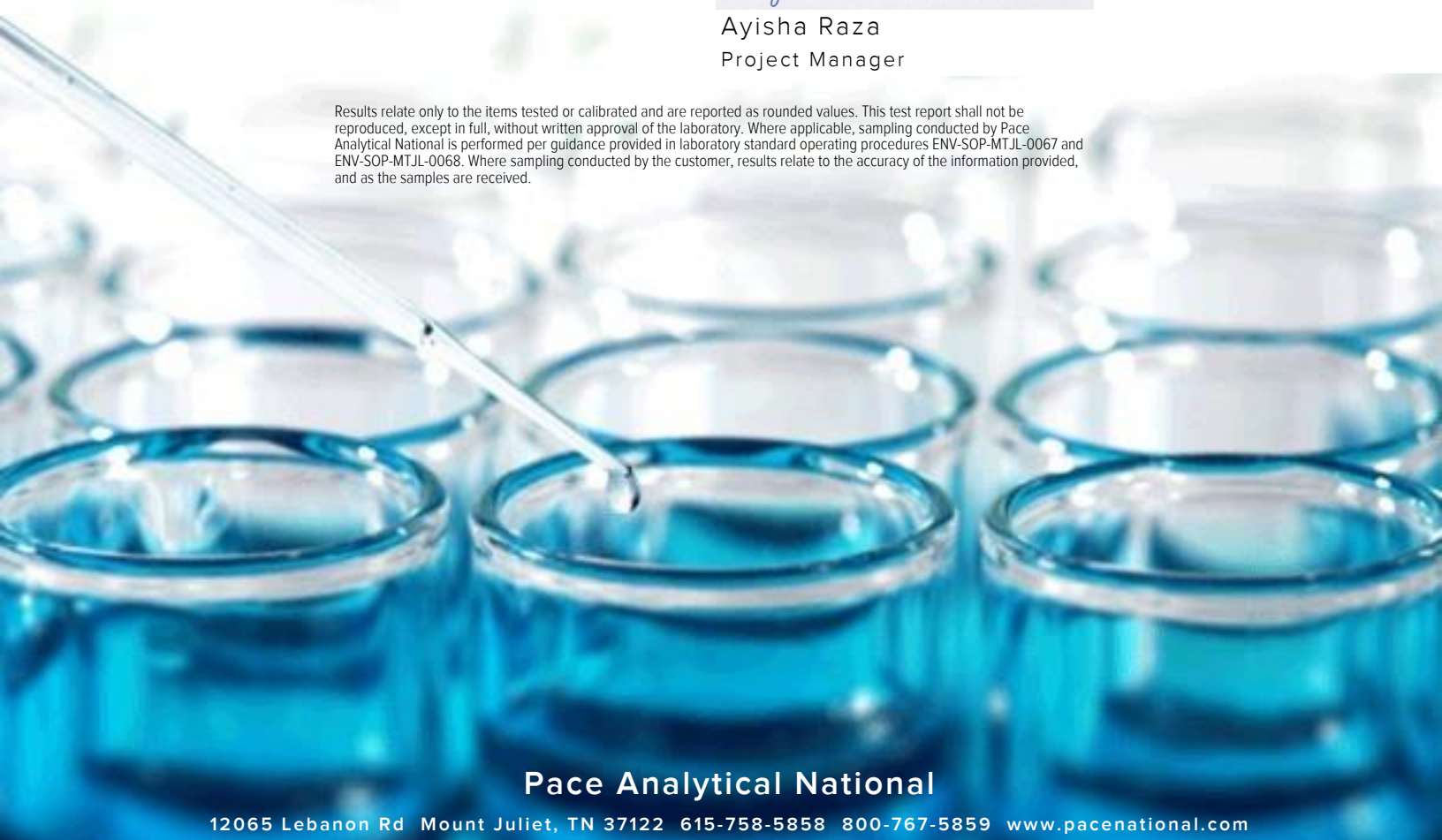
Report To: Wilhelm Welzebach
700 SW Higgins
Suite 15
Missoula, MT 59803

Entire Report Reviewed By:



Ayisha Raza
Project Manager












Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

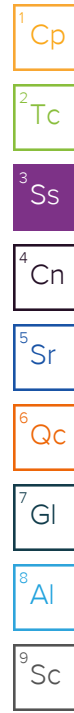
Cp: Cover Page	1	
Tc: Table of Contents	2	
Ss: Sample Summary	3	
Cn: Case Narrative	5	
Sr: Sample Results	6	
TP-1 (9') L1394950-01	6	
TP-4 (13') L1394950-02	8	
TP-6 (2') L1394950-03	10	
TP-9 (13') L1394950-04	12	
TP-11 (9') L1394950-05	13	
TP-12 (10') L1394950-06	14	
TP-14 (12') L1394950-07	15	
TP-15 (14') L1394950-08	17	
TRIP BLANK L1394950-09	19	
Qc: Quality Control Summary	20	
Total Solids by Method 2540 G-2011	20	
Mercury by Method 7471A	22	
Metals (ICP) by Method 6010B	23	
Volatile Organic Compounds (GC) by Method NWTPHGX	25	
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	27	
Polychlorinated Biphenyls (GC) by Method 8082	28	
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	30	
Gl: Glossary of Terms	34	
Al: Accreditations & Locations	35	
Sc: Sample Chain of Custody	36	

SAMPLE SUMMARY

TP-1 (9') L1394950-01 Solid

Collected by Sam B. Collected date/time 08/18/21 08:50 Received date/time 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732529	1	09/01/21 17:43	09/02/21 09:00	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730862	1	08/27/21 14:41	08/28/21 12:45	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730228	1	08/26/21 16:06	08/26/21 22:28	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1731200	52.5	08/18/21 08:50	08/31/21 02:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	10	09/01/21 00:32	09/03/21 02:24	JDG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1733960	2	09/01/21 19:14	09/02/21 17:19	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1731870	1	08/31/21 14:46	09/01/21 00:16	AAT	Mt. Juliet, TN



TP-4 (13') L1394950-02 Solid

Collected by Sam B. Collected date/time 08/18/21 12:10 Received date/time 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732529	1	09/01/21 17:43	09/02/21 09:00	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730862	1	08/27/21 14:41	08/28/21 12:53	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730228	1	08/26/21 16:06	08/26/21 22:31	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1731200	48.3	08/18/21 12:10	08/31/21 02:33	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	2	09/01/21 00:32	09/03/21 02:51	JDG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1733960	2	09/01/21 19:14	09/02/21 17:32	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1731870	1	08/31/21 14:46	09/01/21 00:36	AAT	Mt. Juliet, TN

TP-6 (2') L1394950-03 Solid

Collected by Sam B. Collected date/time 08/18/21 14:00 Received date/time 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732529	1	09/01/21 17:43	09/02/21 09:00	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730862	1	08/27/21 14:41	08/28/21 12:55	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730228	1	08/26/21 16:06	08/26/21 22:34	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730228	5	08/26/21 16:06	08/27/21 10:20	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1731200	65.5	08/18/21 14:00	08/31/21 02:59	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	1	09/01/21 00:32	09/02/21 22:54	JDG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1733328	1	09/01/21 19:14	09/02/21 03:34	HLJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1731870	1	08/31/21 14:46	08/31/21 23:17	AAT	Mt. Juliet, TN

TP-9 (13') L1394950-04 Solid

Collected by Sam B. Collected date/time 08/18/21 15:45 Received date/time 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732529	1	09/01/21 17:43	09/02/21 09:00	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730862	1	08/27/21 14:41	08/28/21 12:58	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730228	1	08/26/21 16:06	08/26/21 22:43	EL	Mt. Juliet, TN

TP-11 (9') L1394950-05 Solid

Collected by Sam B. Collected date/time 08/19/21 08:25 Received date/time 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732529	1	09/01/21 17:43	09/02/21 09:00	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730862	1	08/27/21 14:41	08/28/21 13:00	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730505	1	08/27/21 07:39	08/31/21 19:01	EL	Mt. Juliet, TN

SAMPLE SUMMARY

TP-12 (10') L1394950-06 Solid

Collected by: Sam B. Collected date/time: 08/19/21 09:15 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732529	1	09/01/21 17:43	09/02/21 09:00	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730862	1	08/27/21 14:41	08/28/21 13:03	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730505	1	08/27/21 07:39	08/31/21 19:04	EL	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

TP-14 (12') L1394950-07 Solid

Collected by: Sam B. Collected date/time: 08/19/21 11:10 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732529	1	09/01/21 17:43	09/02/21 09:00	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730862	1	08/27/21 14:41	08/28/21 13:05	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730505	1	08/27/21 07:39	08/31/21 19:07	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1731200	49.5	08/19/21 11:10	08/31/21 03:21	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	1	09/01/21 00:32	09/01/21 13:59	TJD	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1733328	1	09/01/21 19:14	09/02/21 03:44	HLJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1732504	1	08/31/21 19:19	09/01/21 01:13	AAT	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

TP-15 (14') L1394950-08 Solid

Collected by: Sam B. Collected date/time: 08/19/21 12:15 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732530	1	09/02/21 08:10	09/02/21 08:21	CMK	Mt. Juliet, TN
Mercury by Method 7471A	WG1730862	1	08/27/21 14:41	08/28/21 13:08	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1730505	1	08/27/21 07:39	08/31/21 19:10	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1731200	42	08/19/21 12:15	08/31/21 03:46	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	1	09/01/21 00:32	09/01/21 14:28	TJD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1732534	2	09/01/21 00:32	09/02/21 23:47	JDG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1733960	2	09/01/21 19:14	09/02/21 17:46	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1732504	1	08/31/21 19:19	09/01/21 02:23	AAT	Mt. Juliet, TN

9 Sc

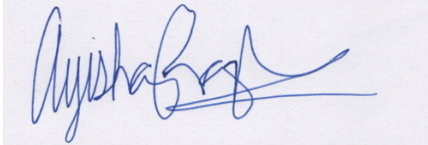
TRIP BLANK L1394950-09 GW

Collected by: Sam B. Collected date/time: 08/18/21 00:00 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1732420	1	09/01/21 03:22	09/01/21 03:22	ACG	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Ayisha Raza
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	48.8		1	09/02/2021 09:00	WG1732529

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0819	1	08/28/2021 12:45	WG1730862

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	ND		4.10	1	08/26/2021 22:28	WG1730228
Barium	206		1.02	1	08/26/2021 22:28	WG1730228
Cadmium	ND		1.02	1	08/26/2021 22:28	WG1730228
Chromium	15.1		2.05	1	08/26/2021 22:28	WG1730228
Lead	8.20		1.02	1	08/26/2021 22:28	WG1730228
Selenium	ND		4.10	1	08/26/2021 22:28	WG1730228
Silver	ND		2.05	1	08/26/2021 22:28	WG1730228

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline Range Organics-NWTPH	20.8		13.4	52.5	08/31/2021 02:11	WG1731200
(S) a,a,a-Trifluorotoluene(FID)	114		77.0-120		08/31/2021 02:11	WG1731200

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Diesel Range Organics (DRO)	877		81.9	10	09/03/2021 02:24	WG1732534
Residual Range Organics (RRO)	1930		205	10	09/03/2021 02:24	WG1732534
(S) o-Terphenyl	110		18.0-148		09/03/2021 02:24	WG1732534

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
PCB 1016	ND		0.139	2	09/02/2021 17:19	WG1733960
PCB 1221	ND		0.139	2	09/02/2021 17:19	WG1733960
PCB 1232	ND		0.139	2	09/02/2021 17:19	WG1733960
PCB 1242	ND		0.139	2	09/02/2021 17:19	WG1733960
PCB 1248	ND		0.0696	2	09/02/2021 17:19	WG1733960
PCB 1254	ND		0.0696	2	09/02/2021 17:19	WG1733960
PCB 1260	ND		0.0696	2	09/02/2021 17:19	WG1733960
(S) Decachlorobiphenyl	48.4		10.0-135		09/02/2021 17:19	WG1733960
(S) Tetrachloro-m-xylene	46.3		10.0-139		09/02/2021 17:19	WG1733960

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.0123	1	09/01/2021 00:16	WG1731870
Acenaphthene	ND		0.0123	1	09/01/2021 00:16	WG1731870
Acenaphthylene	ND		0.0123	1	09/01/2021 00:16	WG1731870
Benzo(a)anthracene	ND		0.0123	1	09/01/2021 00:16	WG1731870
Benzo(a)pyrene	ND		0.0123	1	09/01/2021 00:16	WG1731870
Benzo(b)fluoranthene	ND		0.0123	1	09/01/2021 00:16	WG1731870

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	ND		0.0123	1	09/01/2021 00:16	WG1731870
Benzo(k)fluoranthene	ND		0.0123	1	09/01/2021 00:16	WG1731870
Chrysene	ND		0.0123	1	09/01/2021 00:16	WG1731870
Dibenz(a,h)anthracene	ND		0.0123	1	09/01/2021 00:16	WG1731870
Fluoranthene	0.0136		0.0123	1	09/01/2021 00:16	WG1731870
Fluorene	0.0160		0.0123	1	09/01/2021 00:16	WG1731870
Indeno(1,2,3-cd)pyrene	ND		0.0123	1	09/01/2021 00:16	WG1731870
Naphthalene	0.0528		0.0410	1	09/01/2021 00:16	WG1731870
Phenanthrene	0.0469		0.0123	1	09/01/2021 00:16	WG1731870
Pyrene	0.0287		0.0123	1	09/01/2021 00:16	WG1731870
1-Methylnaphthalene	ND		0.0410	1	09/01/2021 00:16	WG1731870
2-Methylnaphthalene	ND		0.0410	1	09/01/2021 00:16	WG1731870
2-Chloronaphthalene	ND		0.0410	1	09/01/2021 00:16	WG1731870
<i>(S) p-Terphenyl-d14</i>	79.7		23.0-120		09/01/2021 00:16	WG1731870
<i>(S) Nitrobenzene-d5</i>	60.6		14.0-149		09/01/2021 00:16	WG1731870
<i>(S) 2-Fluorobiphenyl</i>	59.1		34.0-125		09/01/2021 00:16	WG1731870

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	43.7		1	09/02/2021 09:00	WG1732529

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Mercury	ND		0.0914	1	08/28/2021 12:53	WG1730862

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Arsenic	ND		4.57	1	08/26/2021 22:31	WG1730228
Barium	86.7		1.14	1	08/26/2021 22:31	WG1730228
Cadmium	ND		1.14	1	08/26/2021 22:31	WG1730228
Chromium	5.33		2.29	1	08/26/2021 22:31	WG1730228
Lead	8.21		1.14	1	08/26/2021 22:31	WG1730228
Selenium	ND		4.57	1	08/26/2021 22:31	WG1730228
Silver	ND		2.29	1	08/26/2021 22:31	WG1730228

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	15.6		14.3	48.3	08/31/2021 02:33	WG1731200
(S) a,a,a-Trifluorotoluene(FID)	114		77.0-120		08/31/2021 02:33	WG1731200

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

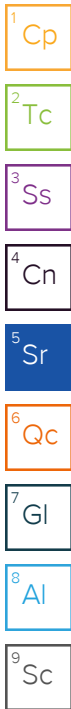
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	377	J3 J6	18.3	2	09/03/2021 02:51	WG1732534
Residual Range Organics (RRO)	665		45.7	2	09/03/2021 02:51	WG1732534
(S) o-Terphenyl	144		18.0-148		09/03/2021 02:51	WG1732534

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
PCB 1016	ND		0.155	2	09/02/2021 17:32	WG1733960
PCB 1221	ND		0.155	2	09/02/2021 17:32	WG1733960
PCB 1232	ND		0.155	2	09/02/2021 17:32	WG1733960
PCB 1242	ND		0.155	2	09/02/2021 17:32	WG1733960
PCB 1248	ND		0.0777	2	09/02/2021 17:32	WG1733960
PCB 1254	ND		0.0777	2	09/02/2021 17:32	WG1733960
PCB 1260	ND		0.0777	2	09/02/2021 17:32	WG1733960
(S) Decachlorobiphenyl	59.3		10.0-135		09/02/2021 17:32	WG1733960
(S) Tetrachloro-m-xylene	60.1		10.0-139		09/02/2021 17:32	WG1733960

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Anthracene	ND		0.0137	1	09/01/2021 00:36	WG1731870
Acenaphthene	ND		0.0137	1	09/01/2021 00:36	WG1731870
Acenaphthylene	ND		0.0137	1	09/01/2021 00:36	WG1731870
Benzo(a)anthracene	ND		0.0137	1	09/01/2021 00:36	WG1731870
Benzo(a)pyrene	ND		0.0137	1	09/01/2021 00:36	WG1731870
Benzo(b)fluoranthene	ND		0.0137	1	09/01/2021 00:36	WG1731870



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	ND		0.0137	1	09/01/2021 00:36	WG1731870
Benzo(k)fluoranthene	ND		0.0137	1	09/01/2021 00:36	WG1731870
Chrysene	ND		0.0137	1	09/01/2021 00:36	WG1731870
Dibenz(a,h)anthracene	ND		0.0137	1	09/01/2021 00:36	WG1731870
Fluoranthene	ND		0.0137	1	09/01/2021 00:36	WG1731870
Fluorene	ND		0.0137	1	09/01/2021 00:36	WG1731870
Indeno(1,2,3-cd)pyrene	ND		0.0137	1	09/01/2021 00:36	WG1731870
Naphthalene	ND		0.0457	1	09/01/2021 00:36	WG1731870
Phenanthrene	0.0152		0.0137	1	09/01/2021 00:36	WG1731870
Pyrene	0.0226		0.0137	1	09/01/2021 00:36	WG1731870
1-Methylnaphthalene	ND		0.0457	1	09/01/2021 00:36	WG1731870
2-Methylnaphthalene	ND		0.0457	1	09/01/2021 00:36	WG1731870
2-Chloronaphthalene	ND		0.0457	1	09/01/2021 00:36	WG1731870
<i>(S) p-Terphenyl-d14</i>	84.5		23.0-120		09/01/2021 00:36	WG1731870
<i>(S) Nitrobenzene-d5</i>	63.5		14.0-149		09/01/2021 00:36	WG1731870
<i>(S) 2-Fluorobiphenyl</i>	66.1		34.0-125		09/01/2021 00:36	WG1731870

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	83.8		1	09/02/2021 09:00	WG1732529

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Mercury	ND		0.0477	1	08/28/2021 12:55	WG1730862

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Arsenic	ND		2.39	1	08/26/2021 22:34	WG1730228
Barium	1220		0.597	1	08/26/2021 22:34	WG1730228
Cadmium	ND		0.597	1	08/26/2021 22:34	WG1730228
Chromium	6.14		1.19	1	08/26/2021 22:34	WG1730228
Lead	ND		2.98	5	08/27/2021 10:20	WG1730228
Selenium	ND		2.39	1	08/26/2021 22:34	WG1730228
Silver	ND		1.19	1	08/26/2021 22:34	WG1730228

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	ND		8.30	65.5	08/31/2021 02:59	WG1731200
(S) a,a,a-Trifluorotoluene(FID)	111		77.0-120		08/31/2021 02:59	WG1731200

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

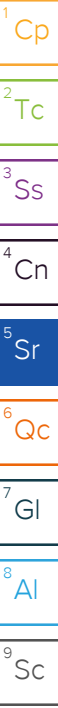
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	22.4		4.77	1	09/02/2021 22:54	WG1732534
Residual Range Organics (RRO)	47.5		11.9	1	09/02/2021 22:54	WG1732534
(S) o-Terphenyl	74.5		18.0-148		09/02/2021 22:54	WG1732534

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
PCB 1016	ND	J4	0.0406	1	09/02/2021 03:34	WG1733328
PCB 1221	ND		0.0406	1	09/02/2021 03:34	WG1733328
PCB 1232	ND		0.0406	1	09/02/2021 03:34	WG1733328
PCB 1242	ND		0.0406	1	09/02/2021 03:34	WG1733328
PCB 1248	ND		0.0203	1	09/02/2021 03:34	WG1733328
PCB 1254	ND		0.0203	1	09/02/2021 03:34	WG1733328
PCB 1260	ND	J4	0.0203	1	09/02/2021 03:34	WG1733328
(S) Decachlorobiphenyl	84.7		10.0-135		09/02/2021 03:34	WG1733328
(S) Tetrachloro-m-xylene	90.6		10.0-139		09/02/2021 03:34	WG1733328

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Anthracene	ND		0.00716	1	08/31/2021 23:17	WG1731870
Acenaphthene	ND		0.00716	1	08/31/2021 23:17	WG1731870
Acenaphthylene	ND		0.00716	1	08/31/2021 23:17	WG1731870
Benzo(a)anthracene	ND		0.00716	1	08/31/2021 23:17	WG1731870
Benzo(a)pyrene	ND		0.00716	1	08/31/2021 23:17	WG1731870
Benzo(b)fluoranthene	ND		0.00716	1	08/31/2021 23:17	WG1731870



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	ND		0.00716	1	08/31/2021 23:17	WG1731870
Benzo(k)fluoranthene	ND		0.00716	1	08/31/2021 23:17	WG1731870
Chrysene	ND		0.00716	1	08/31/2021 23:17	WG1731870
Dibenz(a,h)anthracene	ND		0.00716	1	08/31/2021 23:17	WG1731870
Fluoranthene	ND		0.00716	1	08/31/2021 23:17	WG1731870
Fluorene	ND		0.00716	1	08/31/2021 23:17	WG1731870
Indeno(1,2,3-cd)pyrene	ND		0.00716	1	08/31/2021 23:17	WG1731870
Naphthalene	ND		0.0239	1	08/31/2021 23:17	WG1731870
Phenanthrene	ND		0.00716	1	08/31/2021 23:17	WG1731870
Pyrene	ND		0.00716	1	08/31/2021 23:17	WG1731870
1-Methylnaphthalene	ND		0.0239	1	08/31/2021 23:17	WG1731870
2-Methylnaphthalene	ND		0.0239	1	08/31/2021 23:17	WG1731870
2-Chloronaphthalene	ND		0.0239	1	08/31/2021 23:17	WG1731870
(S) p-Terphenyl-d14	93.7		23.0-120		08/31/2021 23:17	WG1731870
(S) Nitrobenzene-d5	63.3		14.0-149		08/31/2021 23:17	WG1731870
(S) 2-Fluorobiphenyl	75.1		34.0-125		08/31/2021 23:17	WG1731870

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	64.6		1	09/02/2021 09:00	WG1732529

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0619	1	08/28/2021 12:58	WG1730862

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	ND		3.10	1	08/26/2021 22:43	WG1730228
Barium	110		0.774	1	08/26/2021 22:43	WG1730228
Cadmium	ND		0.774	1	08/26/2021 22:43	WG1730228
Chromium	5.88		1.55	1	08/26/2021 22:43	WG1730228
Lead	2.15		0.774	1	08/26/2021 22:43	WG1730228
Selenium	ND		3.10	1	08/26/2021 22:43	WG1730228
Silver	ND		1.55	1	08/26/2021 22:43	WG1730228

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	62.0		1	09/02/2021 09:00	WG1732529

1 Cp

2 Tc

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0645	1	08/28/2021 13:00	WG1730862

3 Ss

4 Cn

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	ND		3.22	1	08/31/2021 19:01	WG1730505
Barium	174		0.806	1	08/31/2021 19:01	WG1730505
Cadmium	ND		0.806	1	08/31/2021 19:01	WG1730505
Chromium	15.8		1.61	1	08/31/2021 19:01	WG1730505
Lead	6.93		0.806	1	08/31/2021 19:01	WG1730505
Selenium	ND		3.22	1	08/31/2021 19:01	WG1730505
Silver	ND		1.61	1	08/31/2021 19:01	WG1730505

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.4		1	09/02/2021 09:00	WG1732529

1 Cp

2 Tc

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0530	1	08/28/2021 13:03	WG1730862

3 Ss

4 Cn

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	ND		2.65	1	08/31/2021 19:04	WG1730505
Barium	118		0.663	1	08/31/2021 19:04	WG1730505
Cadmium	ND		0.663	1	08/31/2021 19:04	WG1730505
Chromium	22.7		1.33	1	08/31/2021 19:04	WG1730505
Lead	4.03		0.663	1	08/31/2021 19:04	WG1730505
Selenium	ND		2.65	1	08/31/2021 19:04	WG1730505
Silver	ND		1.33	1	08/31/2021 19:04	WG1730505

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	55.1		1	09/02/2021 09:00	WG1732529

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0726	1	08/28/2021 13:05	WG1730862

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	ND		3.63	1	08/31/2021 19:07	WG1730505
Barium	91.3		0.907	1	08/31/2021 19:07	WG1730505
Cadmium	ND		0.907	1	08/31/2021 19:07	WG1730505
Chromium	2.17		1.81	1	08/31/2021 19:07	WG1730505
Lead	ND		0.907	1	08/31/2021 19:07	WG1730505
Selenium	ND		3.63	1	08/31/2021 19:07	WG1730505
Silver	ND		1.81	1	08/31/2021 19:07	WG1730505

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline Range Organics-NWTPH	557		11.0	49.5	08/31/2021 03:21	WG1731200
<i>(S) a,a,a-Trifluorotoluene(FID)</i>	114		77.0-120		08/31/2021 03:21	WG1731200

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Diesel Range Organics (DRO)	241		7.26	1	09/01/2021 13:59	WG1732534
Residual Range Organics (RRO)	243		18.1	1	09/01/2021 13:59	WG1732534
<i>(S) o-Terphenyl</i>	47.9		18.0-148		09/01/2021 13:59	WG1732534

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
PCB 1016	ND	J4	0.0617	1	09/02/2021 03:44	WG1733328
PCB 1221	ND		0.0617	1	09/02/2021 03:44	WG1733328
PCB 1232	ND		0.0617	1	09/02/2021 03:44	WG1733328
PCB 1242	ND		0.0617	1	09/02/2021 03:44	WG1733328
PCB 1248	ND		0.0308	1	09/02/2021 03:44	WG1733328
PCB 1254	ND		0.0308	1	09/02/2021 03:44	WG1733328
PCB 1260	ND	J4	0.0308	1	09/02/2021 03:44	WG1733328
<i>(S) Decachlorobiphenyl</i>	97.9		10.0-135		09/02/2021 03:44	WG1733328
<i>(S) Tetrachloro-m-xylene</i>	111		10.0-139		09/02/2021 03:44	WG1733328

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.0109	1	09/01/2021 01:13	WG1732504
Acenaphthene	ND		0.0109	1	09/01/2021 01:13	WG1732504
Acenaphthylene	ND		0.0109	1	09/01/2021 01:13	WG1732504
Benzo(a)anthracene	ND		0.0109	1	09/01/2021 01:13	WG1732504
Benzo(a)pyrene	ND		0.0109	1	09/01/2021 01:13	WG1732504
Benzo(b)fluoranthene	ND		0.0109	1	09/01/2021 01:13	WG1732504



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	ND		0.0109	1	09/01/2021 01:13	WG1732504
Benzo(k)fluoranthene	ND		0.0109	1	09/01/2021 01:13	WG1732504
Chrysene	ND		0.0109	1	09/01/2021 01:13	WG1732504
Dibenz(a,h)anthracene	ND		0.0109	1	09/01/2021 01:13	WG1732504
Fluoranthene	ND		0.0109	1	09/01/2021 01:13	WG1732504
Fluorene	ND		0.0109	1	09/01/2021 01:13	WG1732504
Indeno(1,2,3-cd)pyrene	ND		0.0109	1	09/01/2021 01:13	WG1732504
Naphthalene	ND		0.0363	1	09/01/2021 01:13	WG1732504
Phenanthrene	ND		0.0109	1	09/01/2021 01:13	WG1732504
Pyrene	ND		0.0109	1	09/01/2021 01:13	WG1732504
1-Methylnaphthalene	ND		0.0363	1	09/01/2021 01:13	WG1732504
2-Methylnaphthalene	ND		0.0363	1	09/01/2021 01:13	WG1732504
2-Chloronaphthalene	0.0406		0.0363	1	09/01/2021 01:13	WG1732504
(S) p-Terphenyl-d14	80.5		23.0-120		09/01/2021 01:13	WG1732504
(S) Nitrobenzene-d5	212	<u>J1</u>	14.0-149		09/01/2021 01:13	WG1732504
(S) 2-Fluorobiphenyl	56.9		34.0-125		09/01/2021 01:13	WG1732504

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1394950-07 WG1732504: Surrogate failure due to matrix interference

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	74.9		1	09/02/2021 08:21	WG1732530

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Mercury	ND		0.0534	1	08/28/2021 13:08	WG1730862

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Arsenic	ND		2.67	1	08/31/2021 19:10	WG1730505
Barium	137		0.668	1	08/31/2021 19:10	WG1730505
Cadmium	ND		0.668	1	08/31/2021 19:10	WG1730505
Chromium	6.86		1.34	1	08/31/2021 19:10	WG1730505
Lead	5.65		0.668	1	08/31/2021 19:10	WG1730505
Selenium	ND		2.67	1	08/31/2021 19:10	WG1730505
Silver	ND		1.34	1	08/31/2021 19:10	WG1730505

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	ND		6.45	42	08/31/2021 03:46	WG1731200
(S) a,a,a-Trifluorotoluene(FID)	115		77.0-120		08/31/2021 03:46	WG1731200

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

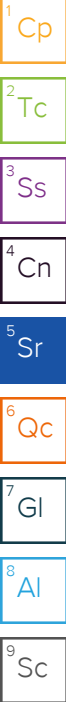
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	80.3		5.34	1	09/01/2021 14:28	WG1732534
Residual Range Organics (RRO)	242		26.7	2	09/02/2021 23:47	WG1732534
(S) o-Terphenyl	58.8		18.0-148		09/02/2021 23:47	WG1732534
(S) o-Terphenyl	34.0		18.0-148		09/01/2021 14:28	WG1732534

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
PCB 1016	ND		0.0908	2	09/02/2021 17:46	WG1733960
PCB 1221	ND		0.0908	2	09/02/2021 17:46	WG1733960
PCB 1232	ND		0.0908	2	09/02/2021 17:46	WG1733960
PCB 1242	ND		0.0908	2	09/02/2021 17:46	WG1733960
PCB 1248	ND		0.0454	2	09/02/2021 17:46	WG1733960
PCB 1254	ND		0.0454	2	09/02/2021 17:46	WG1733960
PCB 1260	ND		0.0454	2	09/02/2021 17:46	WG1733960
(S) Decachlorobiphenyl	78.6		10.0-135		09/02/2021 17:46	WG1733960
(S) Tetrachloro-m-xylene	76.8		10.0-139		09/02/2021 17:46	WG1733960

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Anthracene	ND		0.00801	1	09/01/2021 02:23	WG1732504
Acenaphthene	ND		0.00801	1	09/01/2021 02:23	WG1732504
Acenaphthylene	0.00892		0.00801	1	09/01/2021 02:23	WG1732504
Benzo(a)anthracene	ND		0.00801	1	09/01/2021 02:23	WG1732504
Benzo(a)pyrene	ND		0.00801	1	09/01/2021 02:23	WG1732504



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(b)fluoranthene	ND		0.00801	1	09/01/2021 02:23	WG1732504
Benzo(g,h,i)perylene	ND		0.00801	1	09/01/2021 02:23	WG1732504
Benzo(k)fluoranthene	ND		0.00801	1	09/01/2021 02:23	WG1732504
Chrysene	ND		0.00801	1	09/01/2021 02:23	WG1732504
Dibenz(a,h)anthracene	ND		0.00801	1	09/01/2021 02:23	WG1732504
Fluoranthene	0.0132		0.00801	1	09/01/2021 02:23	WG1732504
Fluorene	ND		0.00801	1	09/01/2021 02:23	WG1732504
Indeno(1,2,3-cd)pyrene	ND		0.00801	1	09/01/2021 02:23	WG1732504
Naphthalene	0.0417		0.0267	1	09/01/2021 02:23	WG1732504
Phenanthrene	0.0345		0.00801	1	09/01/2021 02:23	WG1732504
Pyrene	0.0232		0.00801	1	09/01/2021 02:23	WG1732504
1-Methylnaphthalene	ND		0.0267	1	09/01/2021 02:23	WG1732504
2-Methylnaphthalene	0.0303		0.0267	1	09/01/2021 02:23	WG1732504
2-Chloronaphthalene	ND		0.0267	1	09/01/2021 02:23	WG1732504
(S) p-Terphenyl-d14	82.9		23.0-120		09/01/2021 02:23	WG1732504
(S) Nitrobenzene-d5	82.0		14.0-149		09/01/2021 02:23	WG1732504
(S) 2-Fluorobiphenyl	70.2		34.0-125		09/01/2021 02:23	WG1732504

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		100	1	09/01/2021 03:22	WG1732420
(S) a,a,a-Trifluorotoluene(FID)	97.3		78.0-120		09/01/2021 03:22	WG1732420

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3699883-1 09/02/21 09:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

1 Cp

2 Tc

3 Ss

L1394950-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1394950-01 09/02/21 09:00 • (DUP) R3699883-3 09/02/21 09:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	48.8	48.7	1	0.260		10

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3699883-2 09/02/21 09:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3699706-1 09/02/21 08:21

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

1 Cp

2 Tc

3 Ss

L1394977-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1394977-04 09/02/21 08:21 • (DUP) R3699706-3 09/02/21 08:21

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	91.8	91.5	1	0.340		10

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3699706-2 09/02/21 08:21

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3697668-1 08/28/21 12:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Mercury	U		0.0180	0.0400

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R3697668-2 08/28/21 12:04

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Mercury	0.500	0.487	97.3	80.0-120	

4 Cn

5 Sr

L1394678-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1394678-02 08/28/21 12:06 • (MS) R3697668-3 08/28/21 12:09 • (MSD) R3697668-4 08/28/21 12:12

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Mercury	0.500	ND	0.488	0.495	90.6	91.9	1	75.0-125			1.28	20

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3697297-1 08/26/21 22:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Lead	U		0.208	0.500
Selenium	U		0.764	2.00
Silver	U		0.127	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

Laboratory Control Sample (LCS)

(LCS) R3697297-2 08/26/21 22:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	93.3	93.3	80.0-120	
Barium	100	98.9	98.9	80.0-120	
Cadmium	100	94.5	94.5	80.0-120	
Chromium	100	96.1	96.1	80.0-120	
Lead	100	95.3	95.3	80.0-120	
Selenium	100	94.5	94.5	80.0-120	
Silver	20.0	17.2	85.8	80.0-120	

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1394999-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1394999-01 08/26/21 22:14 • (MS) R3697297-5 08/26/21 22:22 • (MSD) R3697297-6 08/26/21 22:25

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	107	3.28	90.6	88.6	81.4	79.5	1	75.0-125			2.24	20
Barium	107	151	190	222	35.9	66.2	1	75.0-125	J6	J6	15.8	20
Cadmium	107	ND	91.3	89.3	85.0	83.1	1	75.0-125			2.24	20
Chromium	107	36.2	127	120	84.2	77.8	1	75.0-125			5.57	20
Lead	107	6.59	102	98.9	89.1	86.1	1	75.0-125			3.21	20
Selenium	107	ND	89.1	86.6	83.0	80.7	1	75.0-125			2.81	20
Silver	21.5	ND	16.8	16.5	78.3	76.7	1	75.0-125			2.02	20

Method Blank (MB)

(MB) R3698863-1 08/31/21 18:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Lead	U		0.208	0.500
Selenium	U		0.764	2.00
Silver	U		0.127	1.00

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3698863-2 08/31/21 18:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	92.6	92.6	80.0-120	
Barium	100	98.9	98.9	80.0-120	
Cadmium	100	93.8	93.8	80.0-120	
Chromium	100	95.4	95.4	80.0-120	
Lead	100	94.2	94.2	80.0-120	
Selenium	100	100	100	80.0-120	
Silver	20.0	16.8	83.8	80.0-120	

L1394678-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1394678-07 08/31/21 18:14 • (MS) R3698863-5 08/31/21 18:23 • (MSD) R3698863-6 08/31/21 18:26

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	34.7	100	97.5	65.6	62.8	1	75.0-125	J6	J6	2.90	20
Barium	100	151	202	201	51.7	50.0	1	75.0-125	J6	J6	0.843	20
Cadmium	100	ND	88.3	89.4	88.1	89.2	1	75.0-125			1.25	20
Chromium	100	27.5	111	109	83.1	81.1	1	75.0-125			1.82	20
Lead	100	13.1	107	101	94.3	87.8	1	75.0-125			6.27	20
Selenium	100	ND	89.6	91.1	89.6	91.1	1	75.0-125			1.65	20
Silver	20.0	ND	16.3	16.7	81.4	83.4	1	75.0-125			2.45	20

Method Blank (MB)

(MB) R3700418-2 08/30/21 19:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	U		0.0339	0.100
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3700418-1 08/30/21 18:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5.50	5.27	95.8	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			100	77.0-120	

L1394847-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1394847-14 08/30/21 19:47 • (MS) R3700418-3 08/31/21 05:12 • (MSD) R3700418-4 08/31/21 05:34

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	174	ND	180	171	104	98.6	25.5	10.0-149			4.95	27
(S) a,a,a-Trifluorotoluene(FID)					105	103		77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3699093-2 08/31/21 13:28

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	96.9			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3699093-1 08/31/21 12:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5440	98.9	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			106	78.0-120	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3699310-1 09/01/21 12:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
<i>(S) o-Terphenyl</i>	53.2			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3699310-2 09/01/21 12:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	31.9	63.8	50.0-150	
<i>(S) o-Terphenyl</i>			46.4	18.0-148	

L1394950-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1394950-02 09/03/21 02:51 • (MS) R3700186-1 09/03/21 03:04 • (MSD) R3700186-2 09/03/21 03:17

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	108	377	153	320	0.000	0.000	2	50.0-150	J6	J3 J6	70.4	20
<i>(S) o-Terphenyl</i>					49.0	71.8		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3699605-1 09/02/21 00:12

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	156	<u>J1</u>		10.0-135
(S) Tetrachloro-m-xylene	140	<u>J1</u>		10.0-139

Laboratory Control Sample (LCS)

(LCS) R3699605-2 09/02/21 00:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
PCB 1260	0.167	0.261	156	37.0-145	<u>J4</u>
PCB 1016	0.167	0.245	147	36.0-141	<u>J4</u>
(S) Decachlorobiphenyl			146	10.0-135	<u>J1</u>
(S) Tetrachloro-m-xylene			146	10.0-139	<u>J1</u>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3699794-1 09/02/21 13:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
PCB 1016	U		0.0236	0.0680
PCB 1221	U		0.0236	0.0680
PCB 1232	U		0.0236	0.0680
PCB 1242	U		0.0236	0.0680
PCB 1248	U		0.0148	0.0340
PCB 1254	U		0.0148	0.0340
PCB 1260	U		0.0148	0.0340
(S) Decachlorobiphenyl	108			10.0-135
(S) Tetrachloro-m-xylene	93.5			10.0-139

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3699794-2 09/02/21 14:11

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
PCB 1260	0.167	0.177	106	37.0-145	
PCB 1016	0.167	0.232	139	36.0-141	
(S) Decachlorobiphenyl			97.4	10.0-135	
(S) Tetrachloro-m-xylene			101	10.0-139	

7 Gl

8 Al

9 Sc

L1394886-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1394886-10 09/02/21 14:51 • (MS) R3699794-3 09/02/21 15:04 • (MSD) R3699794-4 09/02/21 15:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
PCB 1260	0.166	ND	0.140	0.220	84.3	133	2	10.0-160		J3	44.4	38
PCB 1016	0.166	ND	0.230	0.263	139	158	2	10.0-160	P	P	13.4	37
(S) Decachlorobiphenyl					103	101		10.0-135				
(S) Tetrachloro-m-xylene					86.4	74.1		10.0-139				

Method Blank (MB)

(MB) R3698906-2 08/31/21 17:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	60.2			14.0-149
(S) 2-Fluorobiphenyl	75.7			34.0-125
(S) p-Terphenyl-d14	102			23.0-120

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3698906-1 08/31/21 17:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0678	84.8	50.0-126	
Acenaphthene	0.0800	0.0637	79.6	50.0-120	
Acenaphthylene	0.0800	0.0724	90.5	50.0-120	
Benzo(a)anthracene	0.0800	0.0657	82.1	45.0-120	
Benzo(a)pyrene	0.0800	0.0575	71.9	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0583	72.9	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0591	73.9	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0590	73.8	49.0-125	
Chrysene	0.0800	0.0623	77.9	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0600	75.0	47.0-125	
Fluoranthene	0.0800	0.0649	81.1	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3698906-1 08/31/21 17:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0625	78.1	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0605	75.6	46.0-125	
Naphthalene	0.0800	0.0603	75.4	50.0-120	
Phenanthrene	0.0800	0.0646	80.7	47.0-120	
Pyrene	0.0800	0.0660	82.5	43.0-123	
1-Methylnaphthalene	0.0800	0.0627	78.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0589	73.6	50.0-120	
2-Chloronaphthalene	0.0800	0.0629	78.6	50.0-120	
<i>(S) Nitrobenzene-d5</i>			69.5	14.0-149	
<i>(S) 2-Fluorobiphenyl</i>			82.0	34.0-125	
<i>(S) p-Terphenyl-d14</i>			103	23.0-120	

L1394950-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1394950-03 08/31/21 23:17 • (MS) R3698906-3 08/31/21 23:36 • (MSD) R3698906-4 08/31/21 23:56

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0950	ND	0.0686	0.0725	72.2	76.4	1	10.0-145			5.58	30
Acenaphthene	0.0950	ND	0.0696	0.0694	73.2	73.1	1	14.0-127			0.172	27
Acenaphthylene	0.0950	ND	0.0773	0.0784	81.4	82.5	1	21.0-124			1.38	25
Benzo(a)anthracene	0.0950	ND	0.0636	0.0677	67.0	71.2	1	10.0-139			6.18	30
Benzo(a)pyrene	0.0950	ND	0.0537	0.0560	56.5	58.9	1	10.0-141			4.13	31
Benzo(b)fluoranthene	0.0950	ND	0.0498	0.0523	52.4	55.0	1	10.0-140			4.91	36
Benzo(g,h,i)perylene	0.0950	ND	0.0470	0.0480	49.5	50.5	1	10.0-140			2.01	33
Benzo(k)fluoranthene	0.0950	ND	0.0513	0.0537	54.0	56.5	1	10.0-137			4.55	31
Chrysene	0.0950	ND	0.0623	0.0646	65.6	68.0	1	10.0-145			3.57	30
Dibenz(a,h)anthracene	0.0950	ND	0.0523	0.0525	55.0	55.3	1	10.0-132			0.456	31
Fluoranthene	0.0950	ND	0.0660	0.0700	69.5	73.7	1	10.0-153			5.96	33
Fluorene	0.0950	ND	0.0678	0.0693	71.4	73.0	1	11.0-130			2.26	29
Indeno(1,2,3-cd)pyrene	0.0950	ND	0.0482	0.0508	50.8	53.5	1	10.0-137			5.30	32
Naphthalene	0.0950	ND	0.0717	0.0727	75.5	76.5	1	10.0-135			1.32	27
Phenanthrene	0.0950	ND	0.0687	0.0716	72.4	75.4	1	10.0-144			4.08	31
Pyrene	0.0950	ND	0.0650	0.0668	68.5	70.4	1	10.0-148			2.71	35
1-Methylnaphthalene	0.0950	ND	0.0716	0.0729	75.4	76.8	1	10.0-142			1.82	28
2-Methylnaphthalene	0.0950	ND	0.0674	0.0693	71.0	73.0	1	10.0-137			2.79	28
2-Chloronaphthalene	0.0950	ND	0.0708	0.0735	74.5	77.4	1	29.0-120			3.80	24
<i>(S) Nitrobenzene-d5</i>					67.0	71.6		14.0-149				
<i>(S) 2-Fluorobiphenyl</i>					73.1	74.5		34.0-125				
<i>(S) p-Terphenyl-d14</i>					91.4	91.8		23.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3699000-2 08/31/21 22:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	68.6			14.0-149
(S) 2-Fluorobiphenyl	68.5			34.0-125
(S) p-Terphenyl-d14	86.9			23.0-120

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3699000-1 08/31/21 22:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0599	74.9	50.0-126	
Acenaphthene	0.0800	0.0582	72.8	50.0-120	
Acenaphthylene	0.0800	0.0629	78.6	50.0-120	
Benzo(a)anthracene	0.0800	0.0594	74.3	45.0-120	
Benzo(a)pyrene	0.0800	0.0548	68.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0567	70.9	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0500	62.5	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0569	71.1	49.0-125	
Chrysene	0.0800	0.0574	71.8	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0519	64.9	47.0-125	
Fluoranthene	0.0800	0.0565	70.6	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3699000-1 08/31/21 22:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Fluorene	0.0800	0.0571	71.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0523	65.4	46.0-125	
Naphthalene	0.0800	0.0572	71.5	50.0-120	
Phenanthrene	0.0800	0.0586	73.3	47.0-120	
Pyrene	0.0800	0.0566	70.8	43.0-123	
1-Methylnaphthalene	0.0800	0.0555	69.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0529	66.1	50.0-120	
2-Chloronaphthalene	0.0800	0.0561	70.1	50.0-120	
<i>(S) Nitrobenzene-d5</i>			76.9	14.0-149	
<i>(S) 2-Fluorobiphenyl</i>			72.3	34.0-125	
<i>(S) p-Terphenyl-d14</i>			87.9	23.0-120	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

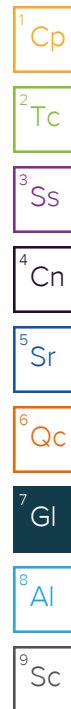
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P	RPD between the primary and confirmatory analysis exceeded 40%.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

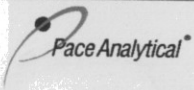
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Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: NewFields
Address: 700 SW Higgins, Suite 15, Missoula, MT 59803
Report To: wvelzenbach@newfields.com
Copy To: sberkelhammer@newfields.com
Customer Project Name/Number: Blue North Mill. 350.0515.001
Phone: []
Email: []
Site/Facility ID #: []
Compliance Monitoring? [] Yes [] No
Collected By (print): Sam Berkelhammer
Purchase Order #: []
Quote #: []
Turnaround Date Required: Standard
Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day
Sample Disposal: [] Dispose as appropriate [] Return [] Archive: [] Hold: [x]

Billing Information: NewFields (attn: Dawn Violette)
700 SW Higgins, Suite 15
Missoula, MT 59803
Email To: dviolette@newfields.com
Site Collection Info/Address: 283 Woodland Rd, Kaniyah, ID
State: Idaho County Time Zone Collected: [x] PT [] MT [] CT [] ET
ID / Idaho County [x] PT [] MT [] CT [] ET
DW PWS ID #: []
DW Location Code: []
Immediately Packed on Ice: [X] Yes [] No
Field Filtered (if applicable): [] Yes [X] No
Analysis: []

Container Preservative Type **
U 6 U U U U U
Lab Project Manager: []
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
TP-1 (9')	SL	Grab	8-18-21	850	8-18-21	850	3	G	TPH-Dx
TP-4 (13')	SL	Grab	8-18-21	1210	8-18-21	1210	5	G	8260-Gasoline
TP-6 (2')	SL	Grab	8-18-21	1400	8-18-21	1400	5	G	PCRA & metals
TP-9 (13')	SL	Grab	8-18-21	1545	8-18-21	1545	1	G	PAHs
TP-11 (9')	SL	Grab	8-19-21	825	8-19-21	825	1	G	PCBs
TP-12 (10')	SL	Grab	8-19-21	915	8-19-21	915	1	G	PCRA, PAHs, PCBs
TP-14 (12')	SL	Grab	8-19-21	1110	8-19-21	1110	5	G	
TP-15 (14')	SL	Grab	8-19-21	1215	8-19-21	1215	5	G	
Trip Blank	Water	-	-	-	-	-	1	G	

Analyses	Lab Profile/Line:
	Lab Sample Receipt Checklist:
	Custody Seals Present/Intact Y N NA
	Custody Signatures Present Y N NA
	Collector Signature Present Y N NA
	Bottles Intact Y N NA
	Correct Bottles Y N NA
	Sufficient Volume Y N NA
	Samples Received on Ice Y N NA
	VOA - Headspace Acceptable Y N NA
	USDA Regulated Soils Y N NA
	Samples in Holding Time Y N NA
	Residual Chlorine Present Y N NA
	Cl Strips: Y N NA
	Sample pH Acceptable Y N NA
	pH Strips: Y N NA
	Sulfide Present Y N NA
	Lead Acetate Strips: Y N NA
	LAB USE ONLY:
	Lab Sample # / Comments: L1394930
	-01
	-02
	-03
	-04
	-05
	-06
	-07
	-08
	-09

Customer Remarks / Special Conditions / Possible Hazards: []
Type of Ice Used: Wet Blue Dry None
Packing Material Used: []
Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
Lab Tracking #: []
Samples received via: FEDEX UPS Client Courier Pace Courier
LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: A301
Cooler 1 Temp Upon Receipt: 3.0d
Cooler 1 Therm Corr. Factor: 1.0d
Cooler 1 Corrected Temp: 3.1d
Comments: []

Relinquished by/Company: (Signature) []
Date/Time: 8/23/21 1200
Received by/Company: (Signature) []
Date/Time: 8/23/21 900
Relinquished by/Company: (Signature) []
Date/Time: []
Received by/Company: (Signature) []
Date/Time: []
Relinquished by/Company: (Signature) []
Date/Time: []
Received by/Company: (Signature) []
Date/Time: []

A023
Acctnum: []
Template: []
Prelogin: []
PM: []
PB: []
Trip Blank Received: Y N NA
HCL MeOH TSP Other
Non Conformance(s): []
Page: 1
YES / NO of: 1

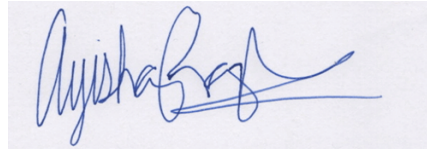
Fedex - 5163 7715 4391 TC = 26

NewFields - Missoula MT

Sample Delivery Group: L1410346
Samples Received: 08/25/2021
Project Number: 350.0515.001
Description: Blue North Mill

Report To: Wilhelm Welzebach
700 SW Higgins
Suite 15
Missoula, MT 59803

Entire Report Reviewed By:



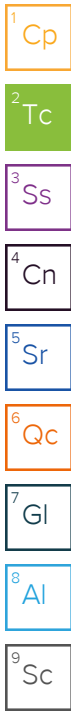
Ayisha Raza
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
TP-1 (9') L1410346-01	5
TP-4 (13') L1410346-02	7
TP-6 (2') L1410346-03	9
TP-14 (12') L1410346-04	11
TP-15 (14') L1410346-05	13
Qc: Quality Control Summary	15
Total Solids by Method 2540 G-2011	15
Volatile Organic Compounds (GC/MS) by Method 8260B	17
Gl: Glossary of Terms	25
Al: Accreditations & Locations	26
Sc: Sample Chain of Custody	27



SAMPLE SUMMARY

TP-1 (9') L1410346-01 Solid

Collected by: Sam B. Collected date/time: 08/18/21 08:50 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732529	1	09/01/21 17:43	09/02/21 09:00	JAV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750414	2.22	08/18/21 08:50	10/02/21 19:15	DWR	Mt. Juliet, TN

TP-4 (13') L1410346-02 Solid

Collected by: Sam B. Collected date/time: 08/18/21 12:10 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732529	1	09/01/21 17:43	09/02/21 09:00	JAV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750414	2.02	08/18/21 12:10	10/02/21 19:35	DWR	Mt. Juliet, TN

TP-6 (2') L1410346-03 Solid

Collected by: Sam B. Collected date/time: 08/18/21 14:00 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732529	1	09/01/21 17:43	09/02/21 09:00	JAV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750414	2.81	08/18/21 14:00	10/02/21 19:55	DWR	Mt. Juliet, TN

TP-14 (12') L1410346-04 Solid

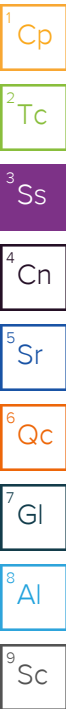
Collected by: Sam B. Collected date/time: 08/18/21 11:10 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732529	1	09/01/21 17:43	09/02/21 09:00	JAV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750414	2.04	08/18/21 11:10	10/02/21 20:15	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1753964	81.6	08/18/21 11:10	10/08/21 16:29	ACG	Mt. Juliet, TN

TP-15 (14') L1410346-05 Solid

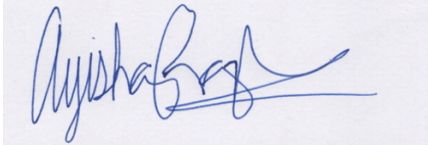
Collected by: Sam B. Collected date/time: 08/18/21 12:15 Received date/time: 08/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1732530	1	09/02/21 08:10	09/02/21 08:21	JAV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750414	1.76	08/18/21 12:15	10/02/21 20:34	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1755317	1.76	08/18/21 12:15	10/12/21 09:55	BMB	Mt. Juliet, TN



CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Ayisha Raza
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	48.8		1	09/02/2021 09:00	WG1732529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	1.10		0.280	2.22	10/02/2021 19:15	WG1750414
Acrylonitrile	ND		0.0700	2.22	10/02/2021 19:15	WG1750414
Benzene	0.00728		0.00559	2.22	10/02/2021 19:15	WG1750414
Bromobenzene	ND		0.0700	2.22	10/02/2021 19:15	WG1750414
Bromodichloromethane	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
Bromoform	ND		0.140	2.22	10/02/2021 19:15	WG1750414
Bromomethane	ND		0.0700	2.22	10/02/2021 19:15	WG1750414
n-Butylbenzene	ND		0.0700	2.22	10/02/2021 19:15	WG1750414
sec-Butylbenzene	ND		0.0700	2.22	10/02/2021 19:15	WG1750414
tert-Butylbenzene	ND		0.0280	2.22	10/02/2021 19:15	WG1750414
Carbon tetrachloride	ND		0.0280	2.22	10/02/2021 19:15	WG1750414
Chlorobenzene	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
Chlorodibromomethane	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
Chloroethane	ND		0.0280	2.22	10/02/2021 19:15	WG1750414
Chloroform	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
Chloromethane	ND		0.0700	2.22	10/02/2021 19:15	WG1750414
2-Chlorotoluene	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
4-Chlorotoluene	ND		0.0280	2.22	10/02/2021 19:15	WG1750414
1,2-Dibromo-3-Chloropropane	ND		0.140	2.22	10/02/2021 19:15	WG1750414
1,2-Dibromoethane	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
Dibromomethane	ND		0.0280	2.22	10/02/2021 19:15	WG1750414
1,2-Dichlorobenzene	ND		0.0280	2.22	10/02/2021 19:15	WG1750414
1,3-Dichlorobenzene	ND		0.0280	2.22	10/02/2021 19:15	WG1750414
1,4-Dichlorobenzene	0.0391		0.0280	2.22	10/02/2021 19:15	WG1750414
Dichlorodifluoromethane	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
1,1-Dichloroethane	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
1,2-Dichloroethane	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
1,1-Dichloroethene	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
cis-1,2-Dichloroethene	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
trans-1,2-Dichloroethene	ND		0.0280	2.22	10/02/2021 19:15	WG1750414
1,2-Dichloropropane	ND		0.0280	2.22	10/02/2021 19:15	WG1750414
1,1-Dichloropropene	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
1,3-Dichloropropane	ND		0.0280	2.22	10/02/2021 19:15	WG1750414
cis-1,3-Dichloropropene	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
trans-1,3-Dichloropropene	ND		0.0280	2.22	10/02/2021 19:15	WG1750414
2,2-Dichloropropane	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
Di-isopropyl ether	ND		0.00559	2.22	10/02/2021 19:15	WG1750414
Ethylbenzene	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
Hexachloro-1,3-butadiene	ND		0.140	2.22	10/02/2021 19:15	WG1750414
Isopropylbenzene	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
p-Isopropyltoluene	0.406		0.0280	2.22	10/02/2021 19:15	WG1750414
2-Butanone (MEK)	ND		0.559	2.22	10/02/2021 19:15	WG1750414
Methylene Chloride	ND		0.140	2.22	10/02/2021 19:15	WG1750414
4-Methyl-2-pentanone (MIBK)	ND		0.140	2.22	10/02/2021 19:15	WG1750414
Methyl tert-butyl ether	ND		0.00559	2.22	10/02/2021 19:15	WG1750414
Naphthalene	ND		0.0700	2.22	10/02/2021 19:15	WG1750414
n-Propylbenzene	ND		0.0280	2.22	10/02/2021 19:15	WG1750414
Styrene	ND		0.0700	2.22	10/02/2021 19:15	WG1750414
1,1,1,2-Tetrachloroethane	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
1,1,2,2-Tetrachloroethane	ND		0.0140	2.22	10/02/2021 19:15	WG1750414

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
Tetrachloroethene	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
Toluene	0.648		0.0280	2.22	10/02/2021 19:15	WG1750414
1,2,3-Trichlorobenzene	ND		0.0700	2.22	10/02/2021 19:15	WG1750414
1,2,4-Trichlorobenzene	ND		0.0700	2.22	10/02/2021 19:15	WG1750414
1,1,1-Trichloroethane	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
1,1,2-Trichloroethane	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
Trichloroethene	ND		0.00559	2.22	10/02/2021 19:15	WG1750414
Trichlorofluoromethane	ND	J3 J4	0.0140	2.22	10/02/2021 19:15	WG1750414
1,2,3-Trichloropropane	ND		0.0700	2.22	10/02/2021 19:15	WG1750414
1,2,4-Trimethylbenzene	ND		0.0280	2.22	10/02/2021 19:15	WG1750414
1,2,3-Trimethylbenzene	ND		0.0280	2.22	10/02/2021 19:15	WG1750414
1,3,5-Trimethylbenzene	ND		0.0280	2.22	10/02/2021 19:15	WG1750414
Vinyl chloride	ND		0.0140	2.22	10/02/2021 19:15	WG1750414
Xylenes, Total	ND		0.0363	2.22	10/02/2021 19:15	WG1750414
(S) Toluene-d8	102		75.0-131		10/02/2021 19:15	WG1750414
(S) 4-Bromofluorobenzene	105		67.0-138		10/02/2021 19:15	WG1750414
(S) 1,2-Dichloroethane-d4	92.0		70.0-130		10/02/2021 19:15	WG1750414

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	43.7		1	09/02/2021 09:00	WG1732529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	0.500		0.295	2.02	10/02/2021 19:35	WG1750414
Acrylonitrile	ND		0.0740	2.02	10/02/2021 19:35	WG1750414
Benzene	ND		0.00591	2.02	10/02/2021 19:35	WG1750414
Bromobenzene	ND		0.0740	2.02	10/02/2021 19:35	WG1750414
Bromodichloromethane	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
Bromoform	ND		0.148	2.02	10/02/2021 19:35	WG1750414
Bromomethane	ND		0.0740	2.02	10/02/2021 19:35	WG1750414
n-Butylbenzene	ND		0.0740	2.02	10/02/2021 19:35	WG1750414
sec-Butylbenzene	ND		0.0740	2.02	10/02/2021 19:35	WG1750414
tert-Butylbenzene	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
Carbon tetrachloride	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
Chlorobenzene	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
Chlorodibromomethane	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
Chloroethane	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
Chloroform	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
Chloromethane	ND		0.0740	2.02	10/02/2021 19:35	WG1750414
2-Chlorotoluene	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
4-Chlorotoluene	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
1,2-Dibromo-3-Chloropropane	ND		0.148	2.02	10/02/2021 19:35	WG1750414
1,2-Dibromoethane	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
Dibromomethane	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
1,2-Dichlorobenzene	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
1,3-Dichlorobenzene	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
1,4-Dichlorobenzene	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
Dichlorodifluoromethane	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
1,1-Dichloroethane	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
1,2-Dichloroethane	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
1,1-Dichloroethene	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
cis-1,2-Dichloroethene	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
trans-1,2-Dichloroethene	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
1,2-Dichloropropane	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
1,1-Dichloropropene	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
1,3-Dichloropropane	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
cis-1,3-Dichloropropene	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
trans-1,3-Dichloropropene	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
2,2-Dichloropropane	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
Di-isopropyl ether	ND		0.00591	2.02	10/02/2021 19:35	WG1750414
Ethylbenzene	0.0348		0.0148	2.02	10/02/2021 19:35	WG1750414
Hexachloro-1,3-butadiene	ND		0.148	2.02	10/02/2021 19:35	WG1750414
Isopropylbenzene	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
p-Isopropyltoluene	0.0634		0.0295	2.02	10/02/2021 19:35	WG1750414
2-Butanone (MEK)	ND		0.591	2.02	10/02/2021 19:35	WG1750414
Methylene Chloride	ND		0.148	2.02	10/02/2021 19:35	WG1750414
4-Methyl-2-pentanone (MIBK)	ND		0.148	2.02	10/02/2021 19:35	WG1750414
Methyl tert-butyl ether	ND		0.00591	2.02	10/02/2021 19:35	WG1750414
Naphthalene	ND		0.0740	2.02	10/02/2021 19:35	WG1750414
n-Propylbenzene	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
Styrene	ND		0.0740	2.02	10/02/2021 19:35	WG1750414
1,1,1,2-Tetrachloroethane	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
1,1,2,2-Tetrachloroethane	ND		0.0148	2.02	10/02/2021 19:35	WG1750414

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
Tetrachloroethene	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
Toluene	1.17		0.0295	2.02	10/02/2021 19:35	WG1750414
1,2,3-Trichlorobenzene	ND		0.0740	2.02	10/02/2021 19:35	WG1750414
1,2,4-Trichlorobenzene	ND		0.0740	2.02	10/02/2021 19:35	WG1750414
1,1,1-Trichloroethane	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
1,1,2-Trichloroethane	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
Trichloroethene	ND		0.00591	2.02	10/02/2021 19:35	WG1750414
Trichlorofluoromethane	ND	J3 J4	0.0148	2.02	10/02/2021 19:35	WG1750414
1,2,3-Trichloropropane	ND		0.0740	2.02	10/02/2021 19:35	WG1750414
1,2,4-Trimethylbenzene	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
1,2,3-Trimethylbenzene	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
1,3,5-Trimethylbenzene	ND		0.0295	2.02	10/02/2021 19:35	WG1750414
Vinyl chloride	ND		0.0148	2.02	10/02/2021 19:35	WG1750414
Xylenes, Total	ND		0.0383	2.02	10/02/2021 19:35	WG1750414
(S) Toluene-d8	105		75.0-131		10/02/2021 19:35	WG1750414
(S) 4-Bromofluorobenzene	105		67.0-138		10/02/2021 19:35	WG1750414
(S) 1,2-Dichloroethane-d4	95.2		70.0-130		10/02/2021 19:35	WG1750414

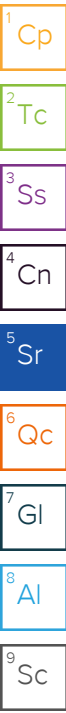
- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.8		1	09/02/2021 09:00	WG1732529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.178	2.81	10/02/2021 19:55	WG1750414
Acrylonitrile	ND		0.0443	2.81	10/02/2021 19:55	WG1750414
Benzene	0.00612		0.00355	2.81	10/02/2021 19:55	WG1750414
Bromobenzene	ND		0.0443	2.81	10/02/2021 19:55	WG1750414
Bromodichloromethane	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
Bromoform	ND		0.0887	2.81	10/02/2021 19:55	WG1750414
Bromomethane	ND		0.0443	2.81	10/02/2021 19:55	WG1750414
n-Butylbenzene	ND		0.0443	2.81	10/02/2021 19:55	WG1750414
sec-Butylbenzene	ND		0.0443	2.81	10/02/2021 19:55	WG1750414
tert-Butylbenzene	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
Carbon tetrachloride	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
Chlorobenzene	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
Chlorodibromomethane	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
Chloroethane	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
Chloroform	0.0165		0.00887	2.81	10/02/2021 19:55	WG1750414
Chloromethane	ND		0.0443	2.81	10/02/2021 19:55	WG1750414
2-Chlorotoluene	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
4-Chlorotoluene	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
1,2-Dibromo-3-Chloropropane	ND		0.0887	2.81	10/02/2021 19:55	WG1750414
1,2-Dibromoethane	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
Dibromomethane	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
1,2-Dichlorobenzene	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
1,3-Dichlorobenzene	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
1,4-Dichlorobenzene	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
Dichlorodifluoromethane	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
1,1-Dichloroethane	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
1,2-Dichloroethane	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
1,1-Dichloroethene	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
cis-1,2-Dichloroethene	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
trans-1,2-Dichloroethene	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
1,2-Dichloropropane	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
1,1-Dichloropropene	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
1,3-Dichloropropane	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
cis-1,3-Dichloropropene	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
trans-1,3-Dichloropropene	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
2,2-Dichloropropane	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
Di-isopropyl ether	ND		0.00355	2.81	10/02/2021 19:55	WG1750414
Ethylbenzene	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
Hexachloro-1,3-butadiene	ND		0.0887	2.81	10/02/2021 19:55	WG1750414
Isopropylbenzene	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
p-Isopropyltoluene	0.0326		0.0178	2.81	10/02/2021 19:55	WG1750414
2-Butanone (MEK)	ND		0.355	2.81	10/02/2021 19:55	WG1750414
Methylene Chloride	ND		0.0887	2.81	10/02/2021 19:55	WG1750414
4-Methyl-2-pentanone (MIBK)	ND		0.0887	2.81	10/02/2021 19:55	WG1750414
Methyl tert-butyl ether	ND		0.00355	2.81	10/02/2021 19:55	WG1750414
Naphthalene	ND		0.0443	2.81	10/02/2021 19:55	WG1750414
n-Propylbenzene	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
Styrene	ND		0.0443	2.81	10/02/2021 19:55	WG1750414
1,1,1,2-Tetrachloroethane	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
1,1,2,2-Tetrachloroethane	ND		0.00887	2.81	10/02/2021 19:55	WG1750414



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
Tetrachloroethene	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
Toluene	0.0273		0.0178	2.81	10/02/2021 19:55	WG1750414
1,2,3-Trichlorobenzene	ND		0.0443	2.81	10/02/2021 19:55	WG1750414
1,2,4-Trichlorobenzene	ND		0.0443	2.81	10/02/2021 19:55	WG1750414
1,1,1-Trichloroethane	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
1,1,2-Trichloroethane	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
Trichloroethene	ND		0.00355	2.81	10/02/2021 19:55	WG1750414
Trichlorofluoromethane	ND	J3 J4	0.00887	2.81	10/02/2021 19:55	WG1750414
1,2,3-Trichloropropane	ND		0.0443	2.81	10/02/2021 19:55	WG1750414
1,2,4-Trimethylbenzene	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
1,2,3-Trimethylbenzene	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
1,3,5-Trimethylbenzene	ND		0.0178	2.81	10/02/2021 19:55	WG1750414
Vinyl chloride	ND		0.00887	2.81	10/02/2021 19:55	WG1750414
Xylenes, Total	ND		0.0231	2.81	10/02/2021 19:55	WG1750414
(S) Toluene-d8	103		75.0-131		10/02/2021 19:55	WG1750414
(S) 4-Bromofluorobenzene	99.9		67.0-138		10/02/2021 19:55	WG1750414
(S) 1,2-Dichloroethane-d4	96.9		70.0-130		10/02/2021 19:55	WG1750414

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	55.1		1	09/02/2021 09:00	WG1732529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	0.884		0.226	2.04	10/02/2021 20:15	WG1750414
Acrylonitrile	ND		0.0565	2.04	10/02/2021 20:15	WG1750414
Benzene	ND		0.00452	2.04	10/02/2021 20:15	WG1750414
Bromobenzene	ND		0.0565	2.04	10/02/2021 20:15	WG1750414
Bromodichloromethane	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
Bromoform	ND		0.113	2.04	10/02/2021 20:15	WG1750414
Bromomethane	ND		0.0565	2.04	10/02/2021 20:15	WG1750414
n-Butylbenzene	ND		0.0565	2.04	10/02/2021 20:15	WG1750414
sec-Butylbenzene	ND		0.0565	2.04	10/02/2021 20:15	WG1750414
tert-Butylbenzene	ND		0.0226	2.04	10/02/2021 20:15	WG1750414
Carbon tetrachloride	ND		0.0226	2.04	10/02/2021 20:15	WG1750414
Chlorobenzene	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
Chlorodibromomethane	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
Chloroethane	ND		0.0226	2.04	10/02/2021 20:15	WG1750414
Chloroform	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
Chloromethane	ND		0.0565	2.04	10/02/2021 20:15	WG1750414
2-Chlorotoluene	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
4-Chlorotoluene	ND		0.0226	2.04	10/02/2021 20:15	WG1750414
1,2-Dibromo-3-Chloropropane	ND		0.113	2.04	10/02/2021 20:15	WG1750414
1,2-Dibromoethane	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
Dibromomethane	ND		0.0226	2.04	10/02/2021 20:15	WG1750414
1,2-Dichlorobenzene	ND		0.0226	2.04	10/02/2021 20:15	WG1750414
1,3-Dichlorobenzene	ND		0.0226	2.04	10/02/2021 20:15	WG1750414
1,4-Dichlorobenzene	ND		0.0226	2.04	10/02/2021 20:15	WG1750414
Dichlorodifluoromethane	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
1,1-Dichloroethane	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
1,2-Dichloroethane	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
1,1-Dichloroethene	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
cis-1,2-Dichloroethene	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
trans-1,2-Dichloroethene	ND		0.0226	2.04	10/02/2021 20:15	WG1750414
1,2-Dichloropropane	ND		0.0226	2.04	10/02/2021 20:15	WG1750414
1,1-Dichloropropene	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
1,3-Dichloropropane	ND		0.0226	2.04	10/02/2021 20:15	WG1750414
cis-1,3-Dichloropropene	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
trans-1,3-Dichloropropene	ND		0.0226	2.04	10/02/2021 20:15	WG1750414
2,2-Dichloropropane	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
Di-isopropyl ether	ND		0.00452	2.04	10/02/2021 20:15	WG1750414
Ethylbenzene	0.0777		0.0113	2.04	10/02/2021 20:15	WG1750414
Hexachloro-1,3-butadiene	ND		0.113	2.04	10/02/2021 20:15	WG1750414
Isopropylbenzene	0.0196		0.0113	2.04	10/02/2021 20:15	WG1750414
p-Isopropyltoluene	39.0	Q	0.904	81.6	10/08/2021 16:29	WG1753964
2-Butanone (MEK)	ND		0.452	2.04	10/02/2021 20:15	WG1750414
Methylene Chloride	ND		0.113	2.04	10/02/2021 20:15	WG1750414
4-Methyl-2-pentanone (MIBK)	ND		0.113	2.04	10/02/2021 20:15	WG1750414
Methyl tert-butyl ether	ND		0.00452	2.04	10/02/2021 20:15	WG1750414
Naphthalene	ND		0.0565	2.04	10/02/2021 20:15	WG1750414
n-Propylbenzene	0.543		0.0226	2.04	10/02/2021 20:15	WG1750414
Styrene	ND		0.0565	2.04	10/02/2021 20:15	WG1750414
1,1,1,2-Tetrachloroethane	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
1,1,2,2-Tetrachloroethane	ND		0.0113	2.04	10/02/2021 20:15	WG1750414

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
Tetrachloroethene	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
Toluene	0.139		0.0226	2.04	10/02/2021 20:15	WG1750414
1,2,3-Trichlorobenzene	ND		0.0565	2.04	10/02/2021 20:15	WG1750414
1,2,4-Trichlorobenzene	ND		0.0565	2.04	10/02/2021 20:15	WG1750414
1,1,1-Trichloroethane	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
1,1,2-Trichloroethane	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
Trichloroethene	ND		0.00452	2.04	10/02/2021 20:15	WG1750414
Trichlorofluoromethane	ND	J3 J4	0.0113	2.04	10/02/2021 20:15	WG1750414
1,2,3-Trichloropropane	ND		0.0565	2.04	10/02/2021 20:15	WG1750414
1,2,4-Trimethylbenzene	ND		0.0226	2.04	10/02/2021 20:15	WG1750414
1,2,3-Trimethylbenzene	ND		0.0226	2.04	10/02/2021 20:15	WG1750414
1,3,5-Trimethylbenzene	ND		0.0226	2.04	10/02/2021 20:15	WG1750414
Vinyl chloride	ND		0.0113	2.04	10/02/2021 20:15	WG1750414
Xylenes, Total	0.181		0.0295	2.04	10/02/2021 20:15	WG1750414
(S) Toluene-d8	104		75.0-131		10/02/2021 20:15	WG1750414
(S) Toluene-d8	107		75.0-131		10/08/2021 16:29	WG1753964
(S) 4-Bromofluorobenzene	91.2		67.0-138		10/02/2021 20:15	WG1750414
(S) 4-Bromofluorobenzene	108		67.0-138		10/08/2021 16:29	WG1753964
(S) 1,2-Dichloroethane-d4	94.3		70.0-130		10/02/2021 20:15	WG1750414
(S) 1,2-Dichloroethane-d4	93.2		70.0-130		10/08/2021 16:29	WG1753964

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.9		1	09/02/2021 08:21	WG1732530

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.134	1.76	10/02/2021 20:34	WG1750414
Acrylonitrile	ND		0.0336	1.76	10/02/2021 20:34	WG1750414
Benzene	0.00887		0.00269	1.76	10/02/2021 20:34	WG1750414
Bromobenzene	ND		0.0336	1.76	10/02/2021 20:34	WG1750414
Bromodichloromethane	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
Bromoform	ND		0.0671	1.76	10/02/2021 20:34	WG1750414
Bromomethane	ND		0.0336	1.76	10/02/2021 20:34	WG1750414
n-Butylbenzene	ND		0.0336	1.76	10/02/2021 20:34	WG1750414
sec-Butylbenzene	ND		0.0336	1.76	10/02/2021 20:34	WG1750414
tert-Butylbenzene	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
Carbon tetrachloride	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
Chlorobenzene	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
Chlorodibromomethane	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
Chloroethane	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
Chloroform	0.00926		0.00671	1.76	10/02/2021 20:34	WG1750414
Chloromethane	ND		0.0336	1.76	10/02/2021 20:34	WG1750414
2-Chlorotoluene	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
4-Chlorotoluene	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
1,2-Dibromo-3-Chloropropane	ND		0.0671	1.76	10/02/2021 20:34	WG1750414
1,2-Dibromoethane	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
Dibromomethane	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
1,2-Dichlorobenzene	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
1,3-Dichlorobenzene	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
1,4-Dichlorobenzene	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
Dichlorodifluoromethane	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
1,1-Dichloroethane	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
1,2-Dichloroethane	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
1,1-Dichloroethene	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
cis-1,2-Dichloroethene	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
trans-1,2-Dichloroethene	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
1,2-Dichloropropane	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
1,1-Dichloropropene	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
1,3-Dichloropropane	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
cis-1,3-Dichloropropene	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
trans-1,3-Dichloropropene	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
2,2-Dichloropropane	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
Di-isopropyl ether	ND		0.00269	1.76	10/02/2021 20:34	WG1750414
Ethylbenzene	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
Hexachloro-1,3-butadiene	ND		0.0671	1.76	10/02/2021 20:34	WG1750414
Isopropylbenzene	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
p-Isopropyltoluene	0.0194		0.0134	1.76	10/12/2021 09:55	WG1755317
2-Butanone (MEK)	ND		0.269	1.76	10/02/2021 20:34	WG1750414
Methylene Chloride	ND		0.0671	1.76	10/02/2021 20:34	WG1750414
4-Methyl-2-pentanone (MIBK)	ND		0.0671	1.76	10/02/2021 20:34	WG1750414
Methyl tert-butyl ether	ND		0.00269	1.76	10/02/2021 20:34	WG1750414
Naphthalene	ND		0.0336	1.76	10/02/2021 20:34	WG1750414
n-Propylbenzene	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
Styrene	ND		0.0336	1.76	10/02/2021 20:34	WG1750414
1,1,1,2-Tetrachloroethane	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
1,1,2,2-Tetrachloroethane	ND		0.00671	1.76	10/02/2021 20:34	WG1750414

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
Tetrachloroethene	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
Toluene	0.0726		0.0134	1.76	10/02/2021 20:34	WG1750414
1,2,3-Trichlorobenzene	ND		0.0336	1.76	10/02/2021 20:34	WG1750414
1,2,4-Trichlorobenzene	ND		0.0336	1.76	10/02/2021 20:34	WG1750414
1,1,1-Trichloroethane	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
1,1,2-Trichloroethane	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
Trichloroethene	ND		0.00269	1.76	10/02/2021 20:34	WG1750414
Trichlorofluoromethane	ND	J3 J4	0.00671	1.76	10/02/2021 20:34	WG1750414
1,2,3-Trichloropropane	ND		0.0336	1.76	10/02/2021 20:34	WG1750414
1,2,4-Trimethylbenzene	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
1,2,3-Trimethylbenzene	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
1,3,5-Trimethylbenzene	ND		0.0134	1.76	10/02/2021 20:34	WG1750414
Vinyl chloride	ND		0.00671	1.76	10/02/2021 20:34	WG1750414
Xylenes, Total	ND		0.0174	1.76	10/02/2021 20:34	WG1750414
(S) Toluene-d8	107		75.0-131		10/02/2021 20:34	WG1750414
(S) Toluene-d8	120		75.0-131		10/12/2021 09:55	WG1755317
(S) 4-Bromofluorobenzene	93.3		67.0-138		10/02/2021 20:34	WG1750414
(S) 4-Bromofluorobenzene	96.3		67.0-138		10/12/2021 09:55	WG1755317
(S) 1,2-Dichloroethane-d4	91.6		70.0-130		10/02/2021 20:34	WG1750414
(S) 1,2-Dichloroethane-d4	98.1		70.0-130		10/12/2021 09:55	WG1755317

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3699883-1 09/02/21 09:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

1 Cp

2 Tc

3 Ss

L1394950-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1394950-01 09/02/21 09:00 • (DUP) R3699883-3 09/02/21 09:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	48.8	48.7	1	0.260		10

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3699883-2 09/02/21 09:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3699706-1 09/02/21 08:21

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

1 Cp

2 Tc

3 Ss

L1394977-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1394977-04 09/02/21 08:21 • (DUP) R3699706-3 09/02/21 08:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	91.8	91.5	1	0.340		10

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3699706-2 09/02/21 08:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3714136-3 10/02/21 18:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00250
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3714136-3 10/02/21 18:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	108			75.0-131
(S) 4-Bromofluorobenzene	90.0			67.0-138
(S) 1,2-Dichloroethane-d4	94.1			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3714136-1 10/02/21 17:01 • (LCSD) R3714136-2 10/02/21 17:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.570	0.625	91.2	100	10.0-160			9.21	31
Acrylonitrile	0.625	0.568	0.593	90.9	94.9	45.0-153			4.31	22
Benzene	0.125	0.120	0.119	96.0	95.2	70.0-123			0.837	20
Bromobenzene	0.125	0.123	0.118	98.4	94.4	73.0-121			4.15	20
Bromodichloromethane	0.125	0.118	0.116	94.4	92.8	73.0-121			1.71	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3714136-1 10/02/21 17:01 • (LCSD) R3714136-2 10/02/21 17:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.125	0.0984	0.0996	78.7	79.7	64.0-132			1.21	20
Bromomethane	0.125	0.107	0.102	85.6	81.6	56.0-147			4.78	20
n-Butylbenzene	0.125	0.102	0.103	81.6	82.4	68.0-135			0.976	20
sec-Butylbenzene	0.125	0.109	0.108	87.2	86.4	74.0-130			0.922	20
tert-Butylbenzene	0.125	0.110	0.107	88.0	85.6	75.0-127			2.76	20
Carbon tetrachloride	0.125	0.115	0.115	92.0	92.0	66.0-128			0.000	20
Chlorobenzene	0.125	0.115	0.113	92.0	90.4	76.0-128			1.75	20
Chlorodibromomethane	0.125	0.108	0.106	86.4	84.8	74.0-127			1.87	20
Chloroethane	0.125	0.0976	0.0970	78.1	77.6	61.0-134			0.617	20
Chloroform	0.125	0.117	0.120	93.6	96.0	72.0-123			2.53	20
Chloromethane	0.125	0.0799	0.0915	63.9	73.2	51.0-138			13.5	20
2-Chlorotoluene	0.125	0.116	0.114	92.8	91.2	75.0-124			1.74	20
4-Chlorotoluene	0.125	0.127	0.124	102	99.2	75.0-124			2.39	20
1,2-Dibromo-3-Chloropropane	0.125	0.0856	0.0859	68.5	68.7	59.0-130			0.350	20
1,2-Dibromoethane	0.125	0.111	0.113	88.8	90.4	74.0-128			1.79	20
Dibromomethane	0.125	0.118	0.120	94.4	96.0	75.0-122			1.68	20
1,2-Dichlorobenzene	0.125	0.113	0.114	90.4	91.2	76.0-124			0.881	20
1,3-Dichlorobenzene	0.125	0.114	0.114	91.2	91.2	76.0-125			0.000	20
1,4-Dichlorobenzene	0.125	0.113	0.113	90.4	90.4	77.0-121			0.000	20
Dichlorodifluoromethane	0.125	0.113	0.117	90.4	93.6	43.0-156			3.48	20
1,1-Dichloroethane	0.125	0.118	0.118	94.4	94.4	70.0-127			0.000	20
1,2-Dichloroethane	0.125	0.122	0.116	97.6	92.8	65.0-131			5.04	20
1,1-Dichloroethene	0.125	0.119	0.120	95.2	96.0	65.0-131			0.837	20
cis-1,2-Dichloroethene	0.125	0.116	0.112	92.8	89.6	73.0-125			3.51	20
trans-1,2-Dichloroethene	0.125	0.116	0.113	92.8	90.4	71.0-125			2.62	20
1,2-Dichloropropane	0.125	0.122	0.119	97.6	95.2	74.0-125			2.49	20
1,1-Dichloropropene	0.125	0.122	0.120	97.6	96.0	73.0-125			1.65	20
1,3-Dichloropropane	0.125	0.120	0.113	96.0	90.4	80.0-125			6.01	20
cis-1,3-Dichloropropene	0.125	0.123	0.119	98.4	95.2	76.0-127			3.31	20
trans-1,3-Dichloropropene	0.125	0.109	0.111	87.2	88.8	73.0-127			1.82	20
2,2-Dichloropropane	0.125	0.138	0.135	110	108	59.0-135			2.20	20
Di-isopropyl ether	0.125	0.122	0.118	97.6	94.4	60.0-136			3.33	20
Ethylbenzene	0.125	0.115	0.110	92.0	88.0	74.0-126			4.44	20
Hexachloro-1,3-butadiene	0.125	0.0746	0.0765	59.7	61.2	57.0-150			2.51	20
Isopropylbenzene	0.125	0.112	0.113	89.6	90.4	72.0-127			0.889	20
p-Isopropyltoluene	0.125	0.105	0.106	84.0	84.8	72.0-133			0.948	20
2-Butanone (MEK)	0.625	0.575	0.555	92.0	88.8	30.0-160			3.54	24
Methylene Chloride	0.125	0.115	0.117	92.0	93.6	68.0-123			1.72	20
4-Methyl-2-pentanone (MIBK)	0.625	0.611	0.598	97.8	95.7	56.0-143			2.15	20
Methyl tert-butyl ether	0.125	0.116	0.119	92.8	95.2	66.0-132			2.55	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3714136-1 10/02/21 17:01 • (LCSD) R3714136-2 10/02/21 17:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.125	0.0779	0.0776	62.3	62.1	59.0-130			0.386	20
n-Propylbenzene	0.125	0.122	0.124	97.6	99.2	74.0-126			1.63	20
Styrene	0.125	0.110	0.111	88.0	88.8	72.0-127			0.905	20
1,1,1,2-Tetrachloroethane	0.125	0.113	0.110	90.4	88.0	74.0-129			2.69	20
1,1,2,2-Tetrachloroethane	0.125	0.114	0.110	91.2	88.0	68.0-128			3.57	20
Tetrachloroethene	0.125	0.114	0.111	91.2	88.8	70.0-136			2.67	20
Toluene	0.125	0.114	0.109	91.2	87.2	75.0-121			4.48	20
1,1,2-Trichlorotrifluoroethane	0.125	0.105	0.108	84.0	86.4	61.0-139			2.82	20
1,2,3-Trichlorobenzene	0.125	0.0800	0.0823	64.0	65.8	59.0-139			2.83	20
1,2,4-Trichlorobenzene	0.125	0.0845	0.0840	67.6	67.2	62.0-137			0.593	20
1,1,1-Trichloroethane	0.125	0.117	0.117	93.6	93.6	69.0-126			0.000	20
1,1,2-Trichloroethane	0.125	0.116	0.114	92.8	91.2	78.0-123			1.74	20
Trichloroethene	0.125	0.123	0.122	98.4	97.6	76.0-126			0.816	20
Trichlorofluoromethane	0.125	0.0495	0.110	39.6	88.0	61.0-142	J4	J3	75.9	20
1,2,3-Trichloropropane	0.125	0.126	0.121	101	96.8	67.0-129			4.05	20
1,2,3-Trimethylbenzene	0.125	0.112	0.111	89.6	88.8	74.0-124			0.897	20
1,2,4-Trimethylbenzene	0.125	0.113	0.110	90.4	88.0	70.0-126			2.69	20
1,3,5-Trimethylbenzene	0.125	0.113	0.113	90.4	90.4	73.0-127			0.000	20
Vinyl chloride	0.125	0.101	0.102	80.8	81.6	63.0-134			0.985	20
Xylenes, Total	0.375	0.321	0.318	85.6	84.8	72.0-127			0.939	20
(S) Toluene-d8				97.8	97.4	75.0-131				
(S) 4-Bromofluorobenzene				95.9	97.7	67.0-138				
(S) 1,2-Dichloroethane-d4				104	108	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1410842-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1410842-07 10/03/21 01:27 • (MS) R3714136-4 10/03/21 01:47 • (MSD) R3714136-5 10/03/21 02:06

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.558	ND	0.236	0.168	42.3	30.1	1	10.0-160			33.7	40
Acrylonitrile	0.558	ND	0.279	0.440	50.0	78.9	1	10.0-160		J3	44.8	40
Benzene	0.112	0.00723	0.0984	0.0529	81.4	40.8	1	10.0-149		J3	60.1	37
Bromobenzene	0.112	ND	0.102	0.0779	91.1	69.6	1	10.0-156			26.8	38
Bromodichloromethane	0.112	ND	0.0828	0.0597	73.9	53.3	1	10.0-143			32.4	37
Bromoform	0.112	ND	0.0694	0.0690	62.0	61.6	1	10.0-146			0.578	36
Bromomethane	0.112	ND	0.0492	0.0230	43.9	20.5	1	10.0-149		J3	72.6	38
n-Butylbenzene	0.112	ND	0.0734	0.0421	65.5	37.6	1	10.0-160		J3	54.2	40
sec-Butylbenzene	0.112	ND	0.0804	0.0441	68.2	35.8	1	10.0-159		J3	58.3	39
tert-Butylbenzene	0.112	ND	0.0822	0.0447	73.4	39.9	1	10.0-156		J3	59.1	39

L1410842-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1410842-07 10/03/21 01:27 • (MS) R3714136-4 10/03/21 01:47 • (MSD) R3714136-5 10/03/21 02:06

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Carbon tetrachloride	0.112	ND	0.0811	0.0308	72.4	27.5	1	10.0-145		1.00	89.9	37
Chlorobenzene	0.112	ND	0.0871	0.0529	77.8	47.2	1	10.0-152		1.00	48.9	39
Chlorodibromomethane	0.112	ND	0.0810	0.0715	72.3	63.8	1	10.0-146		1.00	12.5	37
Chloroethane	0.112	ND	0.0278	0.0184	24.8	16.4	1	10.0-146		1.00	40.7	40
Chloroform	0.112	ND	0.0833	0.0467	74.4	41.7	1	10.0-146		1.00	56.3	37
Chloromethane	0.112	ND	0.0704	0.0293	62.9	26.2	1	10.0-159		1.00	82.4	37
2-Chlorotoluene	0.112	ND	0.0890	0.0563	79.5	50.3	1	10.0-159		1.00	45.0	38
4-Chlorotoluene	0.112	ND	0.103	0.0606	92.0	54.1	1	10.0-155		1.00	51.8	39
1,2-Dibromo-3-Chloropropane	0.112	ND	0.0626	0.0734	55.9	65.5	1	10.0-151		1.00	15.9	39
1,2-Dibromoethane	0.112	ND	0.0920	0.0901	82.1	80.4	1	10.0-148		1.00	2.09	34
Dibromomethane	0.112	ND	0.0839	0.0736	74.9	65.7	1	10.0-147		1.00	13.1	35
1,2-Dichlorobenzene	0.112	ND	0.0864	0.0714	77.1	63.8	1	10.0-155		1.00	19.0	37
1,3-Dichlorobenzene	0.112	ND	0.0849	0.0627	75.8	56.0	1	10.0-153		1.00	30.1	38
1,4-Dichlorobenzene	0.112	ND	0.0876	0.0669	78.2	59.7	1	10.0-151		1.00	26.8	38
Dichlorodifluoromethane	0.112	ND	0.0955	0.0283	85.3	25.3	1	10.0-160		1.00	109	35
1,1-Dichloroethane	0.112	ND	0.0848	0.0415	75.7	37.1	1	10.0-147		1.00	68.6	37
1,2-Dichloroethane	0.112	ND	0.0893	0.0720	79.7	64.3	1	10.0-148		1.00	21.5	35
1,1-Dichloroethene	0.112	ND	0.0965	0.0324	86.2	28.9	1	10.0-155		1.00	99.5	37
cis-1,2-Dichloroethene	0.112	ND	0.0824	0.0456	73.6	40.7	1	10.0-149		1.00	57.5	37
trans-1,2-Dichloroethene	0.112	ND	0.0828	0.0345	73.9	30.8	1	10.0-150		1.00	82.4	37
1,2-Dichloropropane	0.112	ND	0.0908	0.0575	81.1	51.3	1	10.0-148		1.00	44.9	37
1,1-Dichloropropene	0.112	ND	0.0934	0.0340	83.4	30.4	1	10.0-153		1.00	93.2	35
1,3-Dichloropropane	0.112	ND	0.0994	0.0870	88.8	77.7	1	10.0-154		1.00	13.3	35
cis-1,3-Dichloropropene	0.112	ND	0.0923	0.0669	82.4	59.7	1	10.0-151		1.00	31.9	37
trans-1,3-Dichloropropene	0.112	ND	0.0897	0.0758	80.1	67.7	1	10.0-148		1.00	16.8	37
2,2-Dichloropropane	0.112	ND	0.0589	0.0278	52.6	24.8	1	10.0-138		1.00	71.7	36
Di-isopropyl ether	0.112	ND	0.0886	0.0620	79.1	55.4	1	10.0-147		1.00	35.3	36
Ethylbenzene	0.112	0.0138	0.105	0.0558	81.4	37.5	1	10.0-160		1.00	61.2	38
Hexachloro-1,3-butadiene	0.112	ND	0.0631	0.0428	56.3	38.2	1	10.0-160		1.00	38.3	40
Isopropylbenzene	0.112	0.00487	0.0836	0.0422	70.3	33.3	1	10.0-155		1.00	65.8	38
p-Isopropyltoluene	0.112	ND	0.0794	0.0447	68.5	37.6	1	10.0-160		1.00	55.9	40
2-Butanone (MEK)	0.558	ND	0.323	0.481	57.9	86.2	1	10.0-160		1.00	39.3	40
Methylene Chloride	0.112	ND	0.0879	0.0577	68.7	41.7	1	10.0-141		1.00	41.5	37
4-Methyl-2-pentanone (MIBK)	0.558	ND	0.466	0.520	83.5	93.2	1	10.0-160		1.00	11.0	35
Methyl tert-butyl ether	0.112	ND	0.0766	0.0748	68.4	66.8	1	11.0-147		1.00	2.38	35
Naphthalene	0.112	0.0162	0.0853	0.0937	61.7	69.2	1	10.0-160		1.00	9.39	36
n-Propylbenzene	0.112	0.0109	0.113	0.0643	91.2	47.7	1	10.0-158		1.00	54.9	38
Styrene	0.112	ND	0.0797	0.0524	71.2	46.8	1	10.0-160		1.00	41.3	40
1,1,1,2-Tetrachloroethane	0.112	ND	0.0745	0.0518	66.5	46.3	1	10.0-149		1.00	35.9	39
1,1,2,2-Tetrachloroethane	0.112	ND	0.0494	0.0518	44.1	46.3	1	10.0-160		1.00	4.74	35

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1410842-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1410842-07 10/03/21 01:27 • (MS) R3714136-4 10/03/21 01:47 • (MSD) R3714136-5 10/03/21 02:06

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Tetrachloroethene	0.112	ND	0.0889	0.0402	79.4	35.9	1	10.0-156		UB	75.4	39
Toluene	0.112	0.0576	0.180	0.112	109	48.6	1	10.0-156		UB	46.6	38
1,1,2-Trichlorotrifluoroethane	0.112	ND	0.0920	0.0286	82.1	25.5	1	10.0-160		UB	105	36
1,2,3-Trichlorobenzene	0.112	ND	0.0601	0.0644	53.7	57.5	1	10.0-160			6.91	40
1,2,4-Trichlorobenzene	0.112	ND	0.0582	0.0573	52.0	51.2	1	10.0-160			1.56	40
1,1,1-Trichloroethane	0.112	ND	0.0836	0.0314	74.6	28.0	1	10.0-144		UB	90.8	35
1,1,2-Trichloroethane	0.112	ND	0.0999	0.0909	89.2	81.2	1	10.0-160			9.43	35
Trichloroethene	0.112	ND	0.135	0.0851	121	76.0	1	10.0-156		UB	45.3	38
Trichlorofluoromethane	0.112	ND	0.0408	0.0191	36.4	17.1	1	10.0-160		UB	72.5	40
1,2,3-Trichloropropane	0.112	ND	0.115	0.123	103	110	1	10.0-156			6.72	35
1,2,3-Trimethylbenzene	0.112	0.0149	0.0982	0.0722	74.4	51.2	1	10.0-160			30.5	36
1,2,4-Trimethylbenzene	0.112	0.0211	0.109	0.0719	78.5	45.4	1	10.0-160		UB	41.0	36
1,3,5-Trimethylbenzene	0.112	0.00581	0.0863	0.0528	71.9	42.0	1	10.0-160		UB	48.2	38
Vinyl chloride	0.112	ND	0.0751	0.0245	67.1	21.9	1	10.0-160		UB	102	37
Xylenes, Total	0.335	0.0520	0.327	0.188	82.1	40.6	1	10.0-160		UB	54.0	38
(S) Toluene-d8					106	105		75.0-131				
(S) 4-Bromofluorobenzene					92.0	91.8		67.0-138				
(S) 1,2-Dichloroethane-d4					97.4	97.6		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3715113-3 10/08/21 12:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
(S) Toluene-d8	112			75.0-131
(S) 4-Bromofluorobenzene	104			67.0-138
(S) 1,2-Dichloroethane-d4	76.5			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3715113-1 10/08/21 11:24 • (LCSD) R3715113-2 10/08/21 11:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
p-Isopropyltoluene	0.125	0.111	0.107	88.8	85.6	72.0-133			3.67	20
(S) Toluene-d8				109	111	75.0-131				
(S) 4-Bromofluorobenzene				104	107	67.0-138				
(S) 1,2-Dichloroethane-d4				87.4	85.2	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3715370-2 10/12/21 07:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
(S) Toluene-d8	125			75.0-131
(S) 4-Bromofluorobenzene	95.2			67.0-138
(S) 1,2-Dichloroethane-d4	84.6			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3715370-1 10/12/21 07:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
p-Isopropyltoluene	0.125	0.114	91.2	72.0-133	
(S) Toluene-d8			115	75.0-131	
(S) 4-Bromofluorobenzene			95.2	67.0-138	
(S) 1,2-Dichloroethane-d4			98.9	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

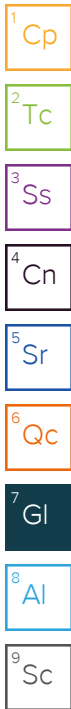
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

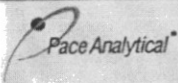
⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pace-labs.com/hubfs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: NewFields
 Address: 700 SW Higgins, Suite 15, Missoula, MT 59803
 Report To: wwelzenbach@newfields.com
 rcotter@newfields.com
 Copy To: sberkelhammer@newfields.com
 bmorter@newfields.com
 Customer Project Name/Number: Blue North Mill. 350.0515.001
 Phone: _____ Site/Facility ID #: _____
 Email: _____
 Collected By (print): Sam Berkelhammer
 Collected By (signature): [Signature]
 Sample Disposal:
 Dispose as appropriate
 Return
 Archive
 Hold

Billing Information: NewFields (attn: Dawn Violette)
 700 SW Higgins, Suite 15
 Missoula, MT 59803
 Email To: dvolette@newfields.com
 Site Collection Info/Address:
 283 Woodland Rd, Kaniah, ID
 State: _____ County/City: Idaho County Time Zone Collected:
 ID / Idaho County PT MT CT ET

Container Preservative Type **
0 6 0 0 0 0
 Lab Project Manager:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
TP-1 (9')	SL	Grab	8-18-21	850	8-18-21	850	3	G	TPH-Dx
TP-4 (13')	SL	Grab	8-18-21	1210	8-18-21	1210	5	G	8260-Gasoline
TP-6 (2')	SL	Grab	8-18-21	1400	8-18-21	1400	5	G	PCPA & metals
TP-9 (13')	SL	Grab	8-18-21	1545	8-18-21	1545	1	C	PAHs
TP-11 (9')	SL	Grab	8-18-21	825	8-18-21	825	1	G	PCBs
TP-12 (10')	SL	Grab	8-18-21	915	8-18-21	915	1	G	PCPA, PAHs, PCBs
TP-14 (12')	SL	Grab	8-18-21	1118	8-18-21	1118	5	G	
TP-15 (14')	SL	Grab	8-18-21	1215	8-18-21	1215	5	G	
Trip Blank	Water	-	-	-	-	-	1	G	

Analyses
 Lab Profile/Line:
 Lab Sample Receipt Checklist:
 Custody Seals Present/Intact 0 N NA
 Custody Signatures Present 0 N NA
 Collector Signature Present 0 N NA
 Bottles Intact 0 N NA
 Correct Bottles 0 N NA
 Sufficient Volume 0 N NA
 Samples Received on Ice 0 N NA
 WDA - Headspace Acceptable Y N NA
 USDA Regulated Soils Y N NA
 Samples in Holding Time Y N NA
 Residual Chlorine Present Y N NA
 Cl Strips: _____
 Sample pH Acceptable Y N NA
 pH Strips: _____
 Sulfide Present Y N NA
 Lead Acetate Strips: _____
 LAB USE ONLY: L/110346
 Lab Sample # / Comments: L/1394950

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #:
 Samples received via:
 FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) [Signature] / NewFields Date/Time: 8/23/21 1200
 Relinquished by/Company: (Signature) Date/Time:
 Relinquished by/Company: (Signature) Date/Time:

Date/Time: 9/28/21 900 **A023**
 Acctnum:
 Template:
 Prelogin:
 PM:
 PB:
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): Page: 1
 YES / NO of: 1

Fedex - 5163 7715 4391 TC=26

Relog L1394950 *NEWFIEMMT

R5

Please relog L1394950-01,-02,-03,-07,and -08 for V8260 on an EX TAT. It is okay to proceed out of holding time. If you have any questions please let me know. Thank you!

Ayisha Raza

Project Manager II - Pace National Center for Testing and Innovation

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Time estimate: oh

Time spent: oh

Members

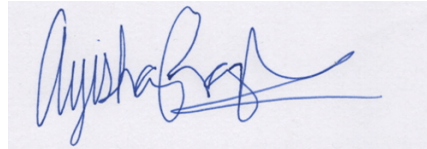
A Ayisha Raza (responsible)

NewFields - Missoula MT

Sample Delivery Group: L1399574
Samples Received: 09/04/2021
Project Number: 350.0515.001
Description: Blue North Mill

Report To: Wilhelm Welzenbach
700 SW Higgins
Suite 15
Missoula, MT 59803

Entire Report Reviewed By:



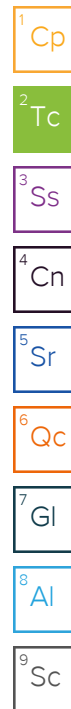
Ayisha Raza
Project Manager

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Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	6
Sr: Sample Results	7
BH-1 (10-11) L1399574-01	7
BH-1 (15-16) L1399574-02	9
BH-2 (15-16) L1399574-03	12
BH-3 (8-9) L1399574-04	15
BH-3 (18-19) L1399574-05	18
BH-4 (8-9) L1399574-06	21
BH-4 (25) L1399574-07	24
TRIP BLANK L1399574-08	27
BH-ERB L1399574-09	29
Qc: Quality Control Summary	32
Total Solids by Method 2540 G-2011	32
Mercury by Method 7470A	34
Mercury by Method 7471A	35
Metals (ICP) by Method 6010B	36
Metals (ICPMS) by Method 6020	38
Volatile Organic Compounds (GC) by Method NWTPHGX	40
Volatile Organic Compounds (GC/MS) by Method 8260B	43
EDB / DBCP by Method 8011	51
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	52
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	53
Polychlorinated Biphenyls (GC) by Method 8082	54
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	57
Gl: Glossary of Terms	61
Al: Accreditations & Locations	62
Sc: Sample Chain of Custody	63



SAMPLE SUMMARY

BH-1 (10-11) L1399574-01 Solid

Collected by: Sam B. Collected date/time: 08/30/21 13:20 Received date/time: 09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1739927	1	09/15/21 11:06	09/15/21 11:15	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1736527	1	09/08/21 10:03	09/09/21 12:01	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1736350	1	09/07/21 16:51	09/10/21 12:41	CCE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1737929	10	09/11/21 13:36	09/12/21 16:07	CAG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1736871	1	09/08/21 20:46	09/09/21 05:52	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1737590	1	09/11/21 06:05	09/11/21 16:35	AMG	Mt. Juliet, TN



BH-1 (15-16) L1399574-02 Solid

Collected by: Sam B. Collected date/time: 08/30/21 14:20 Received date/time: 09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1739929	1	09/15/21 10:54	09/15/21 11:04	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1736527	1	09/08/21 10:03	09/09/21 12:45	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1736350	1	09/07/21 16:51	09/10/21 12:44	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1737008	54	08/30/21 14:20	09/09/21 07:24	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1737320	2.16	08/30/21 14:20	09/09/21 16:14	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1737929	1	09/11/21 13:36	09/12/21 11:22	CAG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1736871	1	09/08/21 20:46	09/09/21 06:01	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1737590	1	09/11/21 06:05	09/11/21 11:18	AMG	Mt. Juliet, TN

BH-2 (15-16) L1399574-03 Solid

Collected by: Sam B. Collected date/time: 08/30/21 17:10 Received date/time: 09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1739929	1	09/15/21 10:54	09/15/21 11:04	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1736527	1	09/08/21 10:03	09/09/21 12:53	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1736350	1	09/07/21 16:51	09/10/21 12:46	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1737008	45.8	08/30/21 17:10	09/09/21 07:46	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1737320	1.83	08/30/21 17:10	09/09/21 16:33	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1737929	10	09/11/21 13:36	09/12/21 15:53	CAG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1736871	1	09/08/21 20:46	09/09/21 06:10	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1737590	1	09/11/21 06:05	09/11/21 16:54	AMG	Mt. Juliet, TN

BH-3 (8-9) L1399574-04 Solid

Collected by: Sam B. Collected date/time: 08/30/21 08:40 Received date/time: 09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1739929	1	09/15/21 10:54	09/15/21 11:04	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1736527	1	09/08/21 10:03	09/09/21 12:55	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1736350	1	09/07/21 16:51	09/10/21 12:54	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1737008	39.5	08/30/21 08:40	09/09/21 08:08	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1737320	1.58	08/30/21 08:40	09/09/21 16:52	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1737929	1	09/11/21 13:36	09/12/21 11:36	CAG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1737584	1	09/10/21 14:37	09/11/21 13:03	AMM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1737590	1	09/11/21 06:05	09/11/21 11:38	AMG	Mt. Juliet, TN

SAMPLE SUMMARY

BH-3 (18-19) L1399574-05 Solid

Collected by
Sam B. Collected date/time
08/30/21 08:45 Received date/time
09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1739929	1	09/15/21 10:54	09/15/21 11:04	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1736527	1	09/08/21 10:03	09/09/21 12:58	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1736350	1	09/07/21 16:51	09/10/21 12:57	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1737008	45.3	08/30/21 08:45	09/09/21 08:30	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1737320	1.81	08/30/21 08:45	09/09/21 17:11	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1737929	1	09/11/21 13:36	09/12/21 11:49	CAG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1737584	1	09/10/21 14:37	09/11/21 13:11	AMM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1737590	1	09/11/21 06:05	09/11/21 11:57	AMG	Mt. Juliet, TN



BH-4 (8-9) L1399574-06 Solid

Collected by
Sam B. Collected date/time
08/30/21 11:30 Received date/time
09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1739929	1	09/15/21 10:54	09/15/21 11:04	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1736527	1	09/08/21 10:03	09/09/21 13:01	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1736350	1	09/07/21 16:51	09/10/21 12:59	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1737008	43.3	08/30/21 11:30	09/09/21 08:52	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1737320	1.73	08/30/21 11:30	09/09/21 17:30	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1737929	1	09/11/21 13:36	09/12/21 12:03	CAG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1737584	1	09/10/21 14:37	09/11/21 13:20	AMM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1737590	1	09/11/21 06:05	09/11/21 12:17	AMG	Mt. Juliet, TN

BH-4 (25) L1399574-07 Solid

Collected by
Sam B. Collected date/time
08/30/21 11:35 Received date/time
09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1739929	1	09/15/21 10:54	09/15/21 11:04	KDW	Mt. Juliet, TN
Mercury by Method 7471A	WG1736527	1	09/08/21 10:03	09/09/21 13:03	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1736350	1	09/07/21 16:51	09/10/21 13:02	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1738117	39	08/30/21 11:35	09/11/21 11:35	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1737320	1.56	08/30/21 11:35	09/09/21 17:49	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1737929	1	09/11/21 13:36	09/12/21 12:16	CAG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1737584	1	09/10/21 14:37	09/11/21 13:29	AMM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1737590	1	09/11/21 06:05	09/11/21 12:37	AMG	Mt. Juliet, TN

TRIP BLANK L1399574-08 GW

Collected by
Sam B. Collected date/time
08/30/21 13:20 Received date/time
09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1738336	1	09/13/21 11:24	09/13/21 11:24	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1737120	1	09/09/21 10:09	09/09/21 10:09	JAH	Mt. Juliet, TN

BH-ERB L1399574-09 GW

Collected by
Sam B. Collected date/time
08/31/21 11:00 Received date/time
09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG1736542	1	09/09/21 21:35	09/10/21 11:55	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1736073	1	09/08/21 04:36	09/08/21 18:53	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1737120	1	09/09/21 15:59	09/09/21 15:59	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1735981	1	09/07/21 09:00	09/08/21 21:33	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1737573	1	09/11/21 05:28	09/14/21 06:46	TJD	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1737626	1	09/09/21 18:06	09/10/21 03:45	MTJ	Mt. Juliet, TN

SAMPLE SUMMARY

BH-ERB L1399574-09 GW

Collected by: Sam B.
Collected date/time: 08/31/21 11:00
Received date/time: 09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1735435	1	09/05/21 15:39	09/05/21 22:18	LEA	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

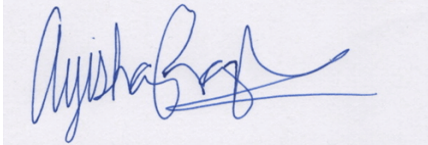
⁷ Gl

⁸ Al

⁹ Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Ayisha Raza
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	58.5		1	09/15/2021 11:15	WG1739927

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0684	1	09/09/2021 12:01	WG1736527

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	ND		3.42	1	09/10/2021 12:41	WG1736350
Barium	156		0.855	1	09/10/2021 12:41	WG1736350
Cadmium	ND		0.855	1	09/10/2021 12:41	WG1736350
Chromium	9.72		1.71	1	09/10/2021 12:41	WG1736350
Lead	5.58		0.855	1	09/10/2021 12:41	WG1736350
Selenium	ND		3.42	1	09/10/2021 12:41	WG1736350
Silver	ND		1.71	1	09/10/2021 12:41	WG1736350

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

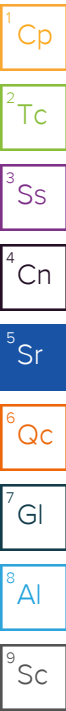
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Diesel Range Organics (DRO)	638		68.4	10	09/12/2021 16:07	WG1737929
Residual Range Organics (RRO)	1330		171	10	09/12/2021 16:07	WG1737929
<i>(S) o-Terphenyl</i>	31.8		18.0-148		09/12/2021 16:07	WG1737929

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
PCB 1016	ND		0.0581	1	09/09/2021 05:52	WG1736871
PCB 1221	ND		0.0581	1	09/09/2021 05:52	WG1736871
PCB 1232	ND		0.0581	1	09/09/2021 05:52	WG1736871
PCB 1242	ND		0.0581	1	09/09/2021 05:52	WG1736871
PCB 1248	ND		0.0291	1	09/09/2021 05:52	WG1736871
PCB 1254	ND		0.0291	1	09/09/2021 05:52	WG1736871
PCB 1260	ND		0.0291	1	09/09/2021 05:52	WG1736871
<i>(S) Decachlorobiphenyl</i>	67.5		10.0-135		09/09/2021 05:52	WG1736871
<i>(S) Tetrachloro-m-xylene</i>	80.5		10.0-139		09/09/2021 05:52	WG1736871

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.0103	1	09/11/2021 16:35	WG1737590
Acenaphthene	ND		0.0103	1	09/11/2021 16:35	WG1737590
Acenaphthylene	ND		0.0103	1	09/11/2021 16:35	WG1737590
Benzo(a)anthracene	ND		0.0103	1	09/11/2021 16:35	WG1737590
Benzo(a)pyrene	ND		0.0103	1	09/11/2021 16:35	WG1737590
Benzo(b)fluoranthene	ND		0.0103	1	09/11/2021 16:35	WG1737590
Benzo(g,h,i)perylene	ND		0.0103	1	09/11/2021 16:35	WG1737590
Benzo(k)fluoranthene	ND		0.0103	1	09/11/2021 16:35	WG1737590
Chrysene	ND		0.0103	1	09/11/2021 16:35	WG1737590
Dibenz(a,h)anthracene	ND		0.0103	1	09/11/2021 16:35	WG1737590
Fluoranthene	0.0174		0.0103	1	09/11/2021 16:35	WG1737590
Fluorene	0.0141		0.0103	1	09/11/2021 16:35	WG1737590



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	ND		0.0103	1	09/11/2021 16:35	WG1737590
Naphthalene	ND		0.0342	1	09/11/2021 16:35	WG1737590
Phenanthrene	0.0740		0.0103	1	09/11/2021 16:35	WG1737590
Pyrene	0.0165		0.0103	1	09/11/2021 16:35	WG1737590
1-Methylnaphthalene	ND		0.0342	1	09/11/2021 16:35	WG1737590
2-Methylnaphthalene	ND		0.0342	1	09/11/2021 16:35	WG1737590
2-Chloronaphthalene	ND		0.0342	1	09/11/2021 16:35	WG1737590
<i>(S) p-Terphenyl-d14</i>	72.4		23.0-120		09/11/2021 16:35	WG1737590
<i>(S) Nitrobenzene-d5</i>	126		14.0-149		09/11/2021 16:35	WG1737590
<i>(S) 2-Fluorobiphenyl</i>	53.8		34.0-125		09/11/2021 16:35	WG1737590

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	82.7		1	09/15/2021 11:04	WG1739929

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Mercury	ND		0.0484	1	09/09/2021 12:45	WG1736527

Metals (ICP) by Method 6010B

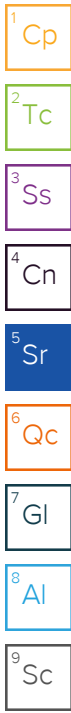
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Arsenic	ND		2.42	1	09/10/2021 12:44	WG1736350
Barium	84.6		0.605	1	09/10/2021 12:44	WG1736350
Cadmium	ND		0.605	1	09/10/2021 12:44	WG1736350
Chromium	17.3		1.21	1	09/10/2021 12:44	WG1736350
Lead	3.70		0.605	1	09/10/2021 12:44	WG1736350
Selenium	ND		2.42	1	09/10/2021 12:44	WG1736350
Silver	ND		1.21	1	09/10/2021 12:44	WG1736350

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	ND		7.06	54	09/09/2021 07:24	WG1737008
(S) a,a,a-Trifluorotoluene(FID)	93.3		77.0-120		09/09/2021 07:24	WG1737008

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Acetone	ND		0.141	2.16	09/09/2021 16:14	WG1737320
Acrylonitrile	ND		0.0353	2.16	09/09/2021 16:14	WG1737320
Benzene	ND		0.00282	2.16	09/09/2021 16:14	WG1737320
Bromobenzene	ND		0.0353	2.16	09/09/2021 16:14	WG1737320
Bromodichloromethane	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
Bromoform	ND		0.0706	2.16	09/09/2021 16:14	WG1737320
Bromomethane	ND		0.0353	2.16	09/09/2021 16:14	WG1737320
n-Butylbenzene	ND		0.0353	2.16	09/09/2021 16:14	WG1737320
sec-Butylbenzene	ND		0.0353	2.16	09/09/2021 16:14	WG1737320
tert-Butylbenzene	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
Carbon tetrachloride	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
Chlorobenzene	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
Chlorodibromomethane	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
Chloroethane	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
Chloroform	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
Chloromethane	ND		0.0353	2.16	09/09/2021 16:14	WG1737320
2-Chlorotoluene	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
4-Chlorotoluene	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
1,2-Dibromo-3-Chloropropane	ND		0.0706	2.16	09/09/2021 16:14	WG1737320
1,2-Dibromoethane	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
Dibromomethane	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
1,2-Dichlorobenzene	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
1,3-Dichlorobenzene	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
1,4-Dichlorobenzene	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
Dichlorodifluoromethane	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
1,1-Dichloroethane	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
1,2-Dichloroethane	ND		0.00706	2.16	09/09/2021 16:14	WG1737320



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
cis-1,2-Dichloroethene	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
trans-1,2-Dichloroethene	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
1,2-Dichloropropane	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
1,1-Dichloropropene	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
1,3-Dichloropropane	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
cis-1,3-Dichloropropene	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
trans-1,3-Dichloropropene	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
2,2-Dichloropropane	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
Di-isopropyl ether	ND		0.00282	2.16	09/09/2021 16:14	WG1737320
Ethylbenzene	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
Hexachloro-1,3-butadiene	ND		0.0706	2.16	09/09/2021 16:14	WG1737320
Isopropylbenzene	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
p-Isopropyltoluene	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
2-Butanone (MEK)	ND		0.282	2.16	09/09/2021 16:14	WG1737320
Methylene Chloride	ND		0.0706	2.16	09/09/2021 16:14	WG1737320
4-Methyl-2-pentanone (MIBK)	ND		0.0706	2.16	09/09/2021 16:14	WG1737320
Methyl tert-butyl ether	ND		0.00282	2.16	09/09/2021 16:14	WG1737320
Naphthalene	ND		0.0353	2.16	09/09/2021 16:14	WG1737320
n-Propylbenzene	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
Styrene	ND		0.0353	2.16	09/09/2021 16:14	WG1737320
1,1,1,2-Tetrachloroethane	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
1,1,1,2-Tetrachloroethane	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
1,1,2-Trichlorotrifluoroethane	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
Tetrachloroethene	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
Toluene	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
1,2,3-Trichlorobenzene	ND		0.0353	2.16	09/09/2021 16:14	WG1737320
1,2,4-Trichlorobenzene	ND		0.0353	2.16	09/09/2021 16:14	WG1737320
1,1,1-Trichloroethane	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
1,1,2-Trichloroethane	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
Trichloroethene	ND		0.00282	2.16	09/09/2021 16:14	WG1737320
Trichlorofluoromethane	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
1,2,3-Trichloropropane	ND		0.0353	2.16	09/09/2021 16:14	WG1737320
1,2,4-Trimethylbenzene	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
1,2,3-Trimethylbenzene	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
1,3,5-Trimethylbenzene	ND		0.0141	2.16	09/09/2021 16:14	WG1737320
Vinyl chloride	ND		0.00706	2.16	09/09/2021 16:14	WG1737320
Xylenes, Total	ND		0.0183	2.16	09/09/2021 16:14	WG1737320
(S) Toluene-d8	101		75.0-131		09/09/2021 16:14	WG1737320
(S) 4-Bromofluorobenzene	104		67.0-138		09/09/2021 16:14	WG1737320
(S) 1,2-Dichloroethane-d4	82.1		70.0-130		09/09/2021 16:14	WG1737320

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		4.84	1	09/12/2021 11:22	WG1737929
Residual Range Organics (RRO)	ND		12.1	1	09/12/2021 11:22	WG1737929
(S) o-Terphenyl	64.4		18.0-148		09/12/2021 11:22	WG1737929

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0411	1	09/09/2021 06:01	WG1736871
PCB 1221	ND		0.0411	1	09/09/2021 06:01	WG1736871
PCB 1232	ND		0.0411	1	09/09/2021 06:01	WG1736871
PCB 1242	ND		0.0411	1	09/09/2021 06:01	WG1736871
PCB 1248	ND		0.0206	1	09/09/2021 06:01	WG1736871
PCB 1254	ND		0.0206	1	09/09/2021 06:01	WG1736871
PCB 1260	ND		0.0206	1	09/09/2021 06:01	WG1736871
(S) Decachlorobiphenyl	72.5		10.0-135		09/09/2021 06:01	WG1736871
(S) Tetrachloro-m-xylene	70.0		10.0-139		09/09/2021 06:01	WG1736871

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00726	1	09/11/2021 11:18	WG1737590
Acenaphthene	ND		0.00726	1	09/11/2021 11:18	WG1737590
Acenaphthylene	ND		0.00726	1	09/11/2021 11:18	WG1737590
Benzo(a)anthracene	ND		0.00726	1	09/11/2021 11:18	WG1737590
Benzo(a)pyrene	ND		0.00726	1	09/11/2021 11:18	WG1737590
Benzo(b)fluoranthene	ND		0.00726	1	09/11/2021 11:18	WG1737590
Benzo(g,h,i)perylene	ND		0.00726	1	09/11/2021 11:18	WG1737590
Benzo(k)fluoranthene	ND		0.00726	1	09/11/2021 11:18	WG1737590
Chrysene	ND		0.00726	1	09/11/2021 11:18	WG1737590
Dibenz(a,h)anthracene	ND		0.00726	1	09/11/2021 11:18	WG1737590
Fluoranthene	ND		0.00726	1	09/11/2021 11:18	WG1737590
Fluorene	ND		0.00726	1	09/11/2021 11:18	WG1737590
Indeno(1,2,3-cd)pyrene	ND		0.00726	1	09/11/2021 11:18	WG1737590
Naphthalene	ND		0.0242	1	09/11/2021 11:18	WG1737590
Phenanthrene	ND		0.00726	1	09/11/2021 11:18	WG1737590
Pyrene	ND		0.00726	1	09/11/2021 11:18	WG1737590
1-Methylnaphthalene	ND		0.0242	1	09/11/2021 11:18	WG1737590
2-Methylnaphthalene	ND		0.0242	1	09/11/2021 11:18	WG1737590
2-Chloronaphthalene	ND		0.0242	1	09/11/2021 11:18	WG1737590
(S) p-Terphenyl-d14	87.6		23.0-120		09/11/2021 11:18	WG1737590
(S) Nitrobenzene-d5	62.5		14.0-149		09/11/2021 11:18	WG1737590
(S) 2-Fluorobiphenyl	81.2		34.0-125		09/11/2021 11:18	WG1737590

6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.0		1	09/15/2021 11:04	WG1739929

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0494	1	09/09/2021 12:53	WG1736527

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	ND		2.47	1	09/10/2021 12:46	WG1736350
Barium	131		0.617	1	09/10/2021 12:46	WG1736350
Cadmium	ND		0.617	1	09/10/2021 12:46	WG1736350
Chromium	13.9		1.23	1	09/10/2021 12:46	WG1736350
Lead	4.79		0.617	1	09/10/2021 12:46	WG1736350
Selenium	ND		2.47	1	09/10/2021 12:46	WG1736350
Silver	ND		1.23	1	09/10/2021 12:46	WG1736350

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline Range Organics-NWTPH	14.9		6.24	45.8	09/09/2021 07:46	WG1737008
(S) a,a,a-Trifluorotoluene(FID)	95.6		77.0-120		09/09/2021 07:46	WG1737008

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	0.405		0.125	1.83	09/09/2021 16:33	WG1737320
Acrylonitrile	ND		0.0312	1.83	09/09/2021 16:33	WG1737320
Benzene	ND		0.00249	1.83	09/09/2021 16:33	WG1737320
Bromobenzene	ND		0.0312	1.83	09/09/2021 16:33	WG1737320
Bromodichloromethane	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
Bromoform	ND		0.0624	1.83	09/09/2021 16:33	WG1737320
Bromomethane	ND		0.0312	1.83	09/09/2021 16:33	WG1737320
n-Butylbenzene	ND		0.0312	1.83	09/09/2021 16:33	WG1737320
sec-Butylbenzene	ND		0.0312	1.83	09/09/2021 16:33	WG1737320
tert-Butylbenzene	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
Carbon tetrachloride	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
Chlorobenzene	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
Chlorodibromomethane	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
Chloroethane	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
Chloroform	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
Chloromethane	ND		0.0312	1.83	09/09/2021 16:33	WG1737320
2-Chlorotoluene	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
4-Chlorotoluene	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
1,2-Dibromo-3-Chloropropane	ND		0.0624	1.83	09/09/2021 16:33	WG1737320
1,2-Dibromoethane	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
Dibromomethane	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
1,2-Dichlorobenzene	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
1,3-Dichlorobenzene	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
1,4-Dichlorobenzene	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
Dichlorodifluoromethane	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
1,1-Dichloroethane	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
1,2-Dichloroethane	ND		0.00624	1.83	09/09/2021 16:33	WG1737320

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
cis-1,2-Dichloroethene	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
trans-1,2-Dichloroethene	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
1,2-Dichloropropane	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
1,1-Dichloropropene	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
1,3-Dichloropropane	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
cis-1,3-Dichloropropene	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
trans-1,3-Dichloropropene	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
2,2-Dichloropropane	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
Di-isopropyl ether	ND		0.00249	1.83	09/09/2021 16:33	WG1737320
Ethylbenzene	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
Hexachloro-1,3-butadiene	ND		0.0624	1.83	09/09/2021 16:33	WG1737320
Isopropylbenzene	0.00692		0.00624	1.83	09/09/2021 16:33	WG1737320
p-Isopropyltoluene	0.189		0.0125	1.83	09/09/2021 16:33	WG1737320
2-Butanone (MEK)	ND		0.249	1.83	09/09/2021 16:33	WG1737320
Methylene Chloride	ND		0.0624	1.83	09/09/2021 16:33	WG1737320
4-Methyl-2-pentanone (MIBK)	ND		0.0624	1.83	09/09/2021 16:33	WG1737320
Methyl tert-butyl ether	ND		0.00249	1.83	09/09/2021 16:33	WG1737320
Naphthalene	ND		0.0312	1.83	09/09/2021 16:33	WG1737320
n-Propylbenzene	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
Styrene	ND		0.0312	1.83	09/09/2021 16:33	WG1737320
1,1,1,2-Tetrachloroethane	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
1,1,2,2-Tetrachloroethane	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
1,1,2-Trichlorotrifluoroethane	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
Tetrachloroethene	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
Toluene	0.485		0.0125	1.83	09/09/2021 16:33	WG1737320
1,2,3-Trichlorobenzene	ND		0.0312	1.83	09/09/2021 16:33	WG1737320
1,2,4-Trichlorobenzene	ND		0.0312	1.83	09/09/2021 16:33	WG1737320
1,1,1-Trichloroethane	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
1,1,2-Trichloroethane	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
Trichloroethene	ND		0.00249	1.83	09/09/2021 16:33	WG1737320
Trichlorofluoromethane	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
1,2,3-Trichloropropane	ND		0.0312	1.83	09/09/2021 16:33	WG1737320
1,2,4-Trimethylbenzene	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
1,2,3-Trimethylbenzene	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
1,3,5-Trimethylbenzene	ND		0.0125	1.83	09/09/2021 16:33	WG1737320
Vinyl chloride	ND		0.00624	1.83	09/09/2021 16:33	WG1737320
Xylenes, Total	ND		0.0162	1.83	09/09/2021 16:33	WG1737320
(S) Toluene-d8	100		75.0-131		09/09/2021 16:33	WG1737320
(S) 4-Bromofluorobenzene	99.9		67.0-138		09/09/2021 16:33	WG1737320
(S) 1,2-Dichloroethane-d4	82.3		70.0-130		09/09/2021 16:33	WG1737320

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	659		49.4	10	09/12/2021 15:53	WG1737929
Residual Range Organics (RRO)	825		123	10	09/12/2021 15:53	WG1737929
(S) o-Terphenyl	18.8		18.0-148		09/12/2021 15:53	WG1737929

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0420	1	09/09/2021 06:10	WG1736871
PCB 1221	ND		0.0420	1	09/09/2021 06:10	WG1736871
PCB 1232	ND		0.0420	1	09/09/2021 06:10	WG1736871
PCB 1242	ND		0.0420	1	09/09/2021 06:10	WG1736871
PCB 1248	ND		0.0210	1	09/09/2021 06:10	WG1736871
PCB 1254	ND		0.0210	1	09/09/2021 06:10	WG1736871
PCB 1260	ND		0.0210	1	09/09/2021 06:10	WG1736871
(S) Decachlorobiphenyl	83.7		10.0-135		09/09/2021 06:10	WG1736871
(S) Tetrachloro-m-xylene	89.1		10.0-139		09/09/2021 06:10	WG1736871

1 Cp

2 Tc

3 Ss

4 Cn

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.236		0.00741	1	09/11/2021 16:54	WG1737590
Acenaphthene	ND		0.00741	1	09/11/2021 16:54	WG1737590
Acenaphthylene	ND		0.00741	1	09/11/2021 16:54	WG1737590
Benzo(a)anthracene	ND		0.00741	1	09/11/2021 16:54	WG1737590
Benzo(a)pyrene	ND		0.00741	1	09/11/2021 16:54	WG1737590
Benzo(b)fluoranthene	ND		0.00741	1	09/11/2021 16:54	WG1737590
Benzo(g,h,i)perylene	ND		0.00741	1	09/11/2021 16:54	WG1737590
Benzo(k)fluoranthene	ND		0.00741	1	09/11/2021 16:54	WG1737590
Chrysene	ND		0.00741	1	09/11/2021 16:54	WG1737590
Dibenz(a,h)anthracene	ND		0.00741	1	09/11/2021 16:54	WG1737590
Fluoranthene	0.0117		0.00741	1	09/11/2021 16:54	WG1737590
Fluorene	0.00899		0.00741	1	09/11/2021 16:54	WG1737590
Indeno(1,2,3-cd)pyrene	ND		0.00741	1	09/11/2021 16:54	WG1737590
Naphthalene	ND		0.0247	1	09/11/2021 16:54	WG1737590
Phenanthrene	0.0577		0.00741	1	09/11/2021 16:54	WG1737590
Pyrene	0.0185		0.00741	1	09/11/2021 16:54	WG1737590
1-Methylnaphthalene	ND		0.0247	1	09/11/2021 16:54	WG1737590
2-Methylnaphthalene	ND		0.0247	1	09/11/2021 16:54	WG1737590
2-Chloronaphthalene	ND		0.0247	1	09/11/2021 16:54	WG1737590
(S) p-Terphenyl-d14	98.8		23.0-120		09/11/2021 16:54	WG1737590
(S) Nitrobenzene-d5	70.2		14.0-149		09/11/2021 16:54	WG1737590
(S) 2-Fluorobiphenyl	89.5		34.0-125		09/11/2021 16:54	WG1737590

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	91.0		1	09/15/2021 11:04	WG1739929

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Mercury	ND		0.0440	1	09/09/2021 12:55	WG1736527

Metals (ICP) by Method 6010B

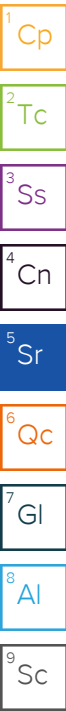
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Arsenic	ND		2.20	1	09/10/2021 12:54	WG1736350
Barium	105		0.549	1	09/10/2021 12:54	WG1736350
Cadmium	ND		0.549	1	09/10/2021 12:54	WG1736350
Chromium	17.1		1.10	1	09/10/2021 12:54	WG1736350
Lead	3.50		0.549	1	09/10/2021 12:54	WG1736350
Selenium	ND		2.20	1	09/10/2021 12:54	WG1736350
Silver	ND		1.10	1	09/10/2021 12:54	WG1736350

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	ND		4.59	39.5	09/09/2021 08:08	WG1737008
(S) a,a,a-Trifluorotoluene(FID)	92.5		77.0-120		09/09/2021 08:08	WG1737008

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Acetone	ND		0.0917	1.58	09/09/2021 16:52	WG1737320
Acrylonitrile	ND		0.0230	1.58	09/09/2021 16:52	WG1737320
Benzene	ND		0.00183	1.58	09/09/2021 16:52	WG1737320
Bromobenzene	ND		0.0230	1.58	09/09/2021 16:52	WG1737320
Bromodichloromethane	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
Bromoform	ND		0.0459	1.58	09/09/2021 16:52	WG1737320
Bromomethane	ND		0.0230	1.58	09/09/2021 16:52	WG1737320
n-Butylbenzene	ND		0.0230	1.58	09/09/2021 16:52	WG1737320
sec-Butylbenzene	ND		0.0230	1.58	09/09/2021 16:52	WG1737320
tert-Butylbenzene	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
Carbon tetrachloride	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
Chlorobenzene	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
Chlorodibromomethane	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
Chloroethane	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
Chloroform	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
Chloromethane	ND		0.0230	1.58	09/09/2021 16:52	WG1737320
2-Chlorotoluene	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
4-Chlorotoluene	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
1,2-Dibromo-3-Chloropropane	ND		0.0459	1.58	09/09/2021 16:52	WG1737320
1,2-Dibromoethane	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
Dibromomethane	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
1,2-Dichlorobenzene	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
1,3-Dichlorobenzene	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
1,4-Dichlorobenzene	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
Dichlorodifluoromethane	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
1,1-Dichloroethane	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
1,2-Dichloroethane	ND		0.00459	1.58	09/09/2021 16:52	WG1737320



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
cis-1,2-Dichloroethene	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
trans-1,2-Dichloroethene	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
1,2-Dichloropropane	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
1,1-Dichloropropene	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
1,3-Dichloropropane	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
cis-1,3-Dichloropropene	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
trans-1,3-Dichloropropene	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
2,2-Dichloropropane	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
Di-isopropyl ether	ND		0.00183	1.58	09/09/2021 16:52	WG1737320
Ethylbenzene	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
Hexachloro-1,3-butadiene	ND		0.0459	1.58	09/09/2021 16:52	WG1737320
Isopropylbenzene	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
p-Isopropyltoluene	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
2-Butanone (MEK)	ND		0.183	1.58	09/09/2021 16:52	WG1737320
Methylene Chloride	ND		0.0459	1.58	09/09/2021 16:52	WG1737320
4-Methyl-2-pentanone (MIBK)	ND		0.0459	1.58	09/09/2021 16:52	WG1737320
Methyl tert-butyl ether	ND		0.00183	1.58	09/09/2021 16:52	WG1737320
Naphthalene	ND		0.0230	1.58	09/09/2021 16:52	WG1737320
n-Propylbenzene	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
Styrene	ND		0.0230	1.58	09/09/2021 16:52	WG1737320
1,1,1,2-Tetrachloroethane	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
1,1,1,2-Tetrachloroethane	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
1,1,2-Trichlorotrifluoroethane	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
Tetrachloroethene	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
Toluene	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
1,2,3-Trichlorobenzene	ND		0.0230	1.58	09/09/2021 16:52	WG1737320
1,2,4-Trichlorobenzene	ND		0.0230	1.58	09/09/2021 16:52	WG1737320
1,1,1-Trichloroethane	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
1,1,2-Trichloroethane	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
Trichloroethene	ND		0.00183	1.58	09/09/2021 16:52	WG1737320
Trichlorofluoromethane	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
1,2,3-Trichloropropane	ND		0.0230	1.58	09/09/2021 16:52	WG1737320
1,2,4-Trimethylbenzene	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
1,2,3-Trimethylbenzene	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
1,3,5-Trimethylbenzene	ND		0.00917	1.58	09/09/2021 16:52	WG1737320
Vinyl chloride	ND		0.00459	1.58	09/09/2021 16:52	WG1737320
Xylenes, Total	ND		0.0120	1.58	09/09/2021 16:52	WG1737320
(S) Toluene-d8	104		75.0-131		09/09/2021 16:52	WG1737320
(S) 4-Bromofluorobenzene	100		67.0-138		09/09/2021 16:52	WG1737320
(S) 1,2-Dichloroethane-d4	79.1		70.0-130		09/09/2021 16:52	WG1737320

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		4.40	1	09/12/2021 11:36	WG1737929
Residual Range Organics (RRO)	ND		11.0	1	09/12/2021 11:36	WG1737929
(S) o-Terphenyl	60.8		18.0-148		09/12/2021 11:36	WG1737929

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0374	1	09/11/2021 13:03	WG1737584
PCB 1221	ND		0.0374	1	09/11/2021 13:03	WG1737584
PCB 1232	ND		0.0374	1	09/11/2021 13:03	WG1737584
PCB 1242	ND		0.0374	1	09/11/2021 13:03	WG1737584
PCB 1248	ND		0.0187	1	09/11/2021 13:03	WG1737584
PCB 1254	ND		0.0187	1	09/11/2021 13:03	WG1737584
PCB 1260	ND		0.0187	1	09/11/2021 13:03	WG1737584
(S) Decachlorobiphenyl	86.3		10.0-135		09/11/2021 13:03	WG1737584
(S) Tetrachloro-m-xylene	89.2		10.0-139		09/11/2021 13:03	WG1737584

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00659	1	09/11/2021 11:38	WG1737590
Acenaphthene	ND		0.00659	1	09/11/2021 11:38	WG1737590
Acenaphthylene	ND		0.00659	1	09/11/2021 11:38	WG1737590
Benzo(a)anthracene	ND		0.00659	1	09/11/2021 11:38	WG1737590
Benzo(a)pyrene	ND		0.00659	1	09/11/2021 11:38	WG1737590
Benzo(b)fluoranthene	ND		0.00659	1	09/11/2021 11:38	WG1737590
Benzo(g,h,i)perylene	ND		0.00659	1	09/11/2021 11:38	WG1737590
Benzo(k)fluoranthene	ND		0.00659	1	09/11/2021 11:38	WG1737590
Chrysene	ND		0.00659	1	09/11/2021 11:38	WG1737590
Dibenz(a,h)anthracene	ND		0.00659	1	09/11/2021 11:38	WG1737590
Fluoranthene	ND		0.00659	1	09/11/2021 11:38	WG1737590
Fluorene	ND		0.00659	1	09/11/2021 11:38	WG1737590
Indeno(1,2,3-cd)pyrene	ND		0.00659	1	09/11/2021 11:38	WG1737590
Naphthalene	ND		0.0220	1	09/11/2021 11:38	WG1737590
Phenanthrene	ND		0.00659	1	09/11/2021 11:38	WG1737590
Pyrene	ND		0.00659	1	09/11/2021 11:38	WG1737590
1-Methylnaphthalene	ND		0.0220	1	09/11/2021 11:38	WG1737590
2-Methylnaphthalene	ND		0.0220	1	09/11/2021 11:38	WG1737590
2-Chloronaphthalene	ND		0.0220	1	09/11/2021 11:38	WG1737590
(S) p-Terphenyl-d14	66.5		23.0-120		09/11/2021 11:38	WG1737590
(S) Nitrobenzene-d5	50.4		14.0-149		09/11/2021 11:38	WG1737590
(S) 2-Fluorobiphenyl	67.9		34.0-125		09/11/2021 11:38	WG1737590

6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.1		1	09/15/2021 11:04	WG1739929

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0493	1	09/09/2021 12:58	WG1736527

Metals (ICP) by Method 6010B

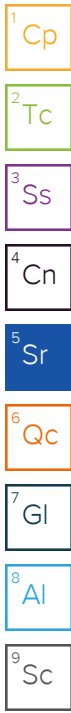
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	ND		2.47	1	09/10/2021 12:57	WG1736350
Barium	45.8		0.616	1	09/10/2021 12:57	WG1736350
Cadmium	ND		0.616	1	09/10/2021 12:57	WG1736350
Chromium	8.41		1.23	1	09/10/2021 12:57	WG1736350
Lead	2.13		0.616	1	09/10/2021 12:57	WG1736350
Selenium	ND		2.47	1	09/10/2021 12:57	WG1736350
Silver	ND		1.23	1	09/10/2021 12:57	WG1736350

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline Range Organics-NWTPH	ND		6.17	45.3	09/09/2021 08:30	WG1737008
(S) a,a,a-Trifluorotoluene(FID)	92.7		77.0-120		09/09/2021 08:30	WG1737008

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.123	1.81	09/09/2021 17:11	WG1737320
Acrylonitrile	ND		0.0308	1.81	09/09/2021 17:11	WG1737320
Benzene	ND		0.00246	1.81	09/09/2021 17:11	WG1737320
Bromobenzene	ND		0.0308	1.81	09/09/2021 17:11	WG1737320
Bromodichloromethane	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
Bromoform	ND		0.0617	1.81	09/09/2021 17:11	WG1737320
Bromomethane	ND		0.0308	1.81	09/09/2021 17:11	WG1737320
n-Butylbenzene	ND		0.0308	1.81	09/09/2021 17:11	WG1737320
sec-Butylbenzene	ND		0.0308	1.81	09/09/2021 17:11	WG1737320
tert-Butylbenzene	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
Carbon tetrachloride	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
Chlorobenzene	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
Chlorodibromomethane	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
Chloroethane	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
Chloroform	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
Chloromethane	ND		0.0308	1.81	09/09/2021 17:11	WG1737320
2-Chlorotoluene	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
4-Chlorotoluene	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
1,2-Dibromo-3-Chloropropane	ND		0.0617	1.81	09/09/2021 17:11	WG1737320
1,2-Dibromoethane	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
Dibromomethane	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
1,2-Dichlorobenzene	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
1,3-Dichlorobenzene	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
1,4-Dichlorobenzene	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
Dichlorodifluoromethane	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
1,1-Dichloroethane	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
1,2-Dichloroethane	ND		0.00617	1.81	09/09/2021 17:11	WG1737320



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
cis-1,2-Dichloroethene	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
trans-1,2-Dichloroethene	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
1,2-Dichloropropane	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
1,1-Dichloropropene	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
1,3-Dichloropropane	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
cis-1,3-Dichloropropene	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
trans-1,3-Dichloropropene	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
2,2-Dichloropropane	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
Di-isopropyl ether	ND		0.00246	1.81	09/09/2021 17:11	WG1737320
Ethylbenzene	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
Hexachloro-1,3-butadiene	ND		0.0617	1.81	09/09/2021 17:11	WG1737320
Isopropylbenzene	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
p-Isopropyltoluene	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
2-Butanone (MEK)	ND		0.246	1.81	09/09/2021 17:11	WG1737320
Methylene Chloride	ND		0.0617	1.81	09/09/2021 17:11	WG1737320
4-Methyl-2-pentanone (MIBK)	ND		0.0617	1.81	09/09/2021 17:11	WG1737320
Methyl tert-butyl ether	ND		0.00246	1.81	09/09/2021 17:11	WG1737320
Naphthalene	ND		0.0308	1.81	09/09/2021 17:11	WG1737320
n-Propylbenzene	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
Styrene	ND		0.0308	1.81	09/09/2021 17:11	WG1737320
1,1,1,2-Tetrachloroethane	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
1,1,1,2-Tetrachloroethane	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
1,1,2-Trichlorotrifluoroethane	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
Tetrachloroethene	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
Toluene	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
1,2,3-Trichlorobenzene	ND		0.0308	1.81	09/09/2021 17:11	WG1737320
1,2,4-Trichlorobenzene	ND		0.0308	1.81	09/09/2021 17:11	WG1737320
1,1,1-Trichloroethane	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
1,1,2-Trichloroethane	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
Trichloroethene	ND		0.00246	1.81	09/09/2021 17:11	WG1737320
Trichlorofluoromethane	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
1,2,3-Trichloropropane	ND		0.0308	1.81	09/09/2021 17:11	WG1737320
1,2,4-Trimethylbenzene	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
1,2,3-Trimethylbenzene	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
1,3,5-Trimethylbenzene	ND		0.0123	1.81	09/09/2021 17:11	WG1737320
Vinyl chloride	ND		0.00617	1.81	09/09/2021 17:11	WG1737320
Xylenes, Total	ND		0.0161	1.81	09/09/2021 17:11	WG1737320
(S) Toluene-d8	106		75.0-131		09/09/2021 17:11	WG1737320
(S) 4-Bromofluorobenzene	98.3		67.0-138		09/09/2021 17:11	WG1737320
(S) 1,2-Dichloroethane-d4	80.2		70.0-130		09/09/2021 17:11	WG1737320

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		4.93	1	09/12/2021 11:49	WG1737929
Residual Range Organics (RRO)	ND		12.3	1	09/12/2021 11:49	WG1737929
(S) o-Terphenyl	80.2		18.0-148		09/12/2021 11:49	WG1737929

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0419	1	09/11/2021 13:11	WG1737584
PCB 1221	ND		0.0419	1	09/11/2021 13:11	WG1737584
PCB 1232	ND		0.0419	1	09/11/2021 13:11	WG1737584
PCB 1242	ND		0.0419	1	09/11/2021 13:11	WG1737584
PCB 1248	ND		0.0210	1	09/11/2021 13:11	WG1737584
PCB 1254	ND		0.0210	1	09/11/2021 13:11	WG1737584
PCB 1260	ND		0.0210	1	09/11/2021 13:11	WG1737584
(S) Decachlorobiphenyl	94.7		10.0-135		09/11/2021 13:11	WG1737584
(S) Tetrachloro-m-xylene	83.4		10.0-139		09/11/2021 13:11	WG1737584

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00740	1	09/11/2021 11:57	WG1737590
Acenaphthene	ND		0.00740	1	09/11/2021 11:57	WG1737590
Acenaphthylene	ND		0.00740	1	09/11/2021 11:57	WG1737590
Benzo(a)anthracene	ND		0.00740	1	09/11/2021 11:57	WG1737590
Benzo(a)pyrene	ND		0.00740	1	09/11/2021 11:57	WG1737590
Benzo(b)fluoranthene	ND		0.00740	1	09/11/2021 11:57	WG1737590
Benzo(g,h,i)perylene	ND		0.00740	1	09/11/2021 11:57	WG1737590
Benzo(k)fluoranthene	ND		0.00740	1	09/11/2021 11:57	WG1737590
Chrysene	ND		0.00740	1	09/11/2021 11:57	WG1737590
Dibenz(a,h)anthracene	ND		0.00740	1	09/11/2021 11:57	WG1737590
Fluoranthene	ND		0.00740	1	09/11/2021 11:57	WG1737590
Fluorene	ND		0.00740	1	09/11/2021 11:57	WG1737590
Indeno(1,2,3-cd)pyrene	ND		0.00740	1	09/11/2021 11:57	WG1737590
Naphthalene	ND		0.0247	1	09/11/2021 11:57	WG1737590
Phenanthrene	ND		0.00740	1	09/11/2021 11:57	WG1737590
Pyrene	ND		0.00740	1	09/11/2021 11:57	WG1737590
1-Methylnaphthalene	ND		0.0247	1	09/11/2021 11:57	WG1737590
2-Methylnaphthalene	ND		0.0247	1	09/11/2021 11:57	WG1737590
2-Chloronaphthalene	ND		0.0247	1	09/11/2021 11:57	WG1737590
(S) p-Terphenyl-d14	102		23.0-120		09/11/2021 11:57	WG1737590
(S) Nitrobenzene-d5	59.8		14.0-149		09/11/2021 11:57	WG1737590
(S) 2-Fluorobiphenyl	84.9		34.0-125		09/11/2021 11:57	WG1737590

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	09/15/2021 11:04	WG1739929

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0443	1	09/09/2021 13:01	WG1736527

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	ND		2.22	1	09/10/2021 12:59	WG1736350
Barium	75.2		0.554	1	09/10/2021 12:59	WG1736350
Cadmium	ND		0.554	1	09/10/2021 12:59	WG1736350
Chromium	13.1		1.11	1	09/10/2021 12:59	WG1736350
Lead	3.07		0.554	1	09/10/2021 12:59	WG1736350
Selenium	ND		2.22	1	09/10/2021 12:59	WG1736350
Silver	ND		1.11	1	09/10/2021 12:59	WG1736350

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline Range Organics-NWTPH	ND		5.07	43.3	09/09/2021 08:52	WG1737008
(S) a,a,a-Trifluorotoluene(FID)	93.2		77.0-120		09/09/2021 08:52	WG1737008

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.101	1.73	09/09/2021 17:30	WG1737320
Acrylonitrile	ND		0.0253	1.73	09/09/2021 17:30	WG1737320
Benzene	ND		0.00203	1.73	09/09/2021 17:30	WG1737320
Bromobenzene	ND		0.0253	1.73	09/09/2021 17:30	WG1737320
Bromodichloromethane	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
Bromoform	ND		0.0507	1.73	09/09/2021 17:30	WG1737320
Bromomethane	ND		0.0253	1.73	09/09/2021 17:30	WG1737320
n-Butylbenzene	ND		0.0253	1.73	09/09/2021 17:30	WG1737320
sec-Butylbenzene	ND		0.0253	1.73	09/09/2021 17:30	WG1737320
tert-Butylbenzene	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
Carbon tetrachloride	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
Chlorobenzene	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
Chlorodibromomethane	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
Chloroethane	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
Chloroform	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
Chloromethane	ND		0.0253	1.73	09/09/2021 17:30	WG1737320
2-Chlorotoluene	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
4-Chlorotoluene	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
1,2-Dibromo-3-Chloropropane	ND		0.0507	1.73	09/09/2021 17:30	WG1737320
1,2-Dibromoethane	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
Dibromomethane	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
1,2-Dichlorobenzene	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
1,3-Dichlorobenzene	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
1,4-Dichlorobenzene	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
Dichlorodifluoromethane	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
1,1-Dichloroethane	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
1,2-Dichloroethane	ND		0.00507	1.73	09/09/2021 17:30	WG1737320



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
cis-1,2-Dichloroethene	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
trans-1,2-Dichloroethene	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
1,2-Dichloropropane	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
1,1-Dichloropropene	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
1,3-Dichloropropane	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
cis-1,3-Dichloropropene	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
trans-1,3-Dichloropropene	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
2,2-Dichloropropane	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
Di-isopropyl ether	ND		0.00203	1.73	09/09/2021 17:30	WG1737320
Ethylbenzene	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
Hexachloro-1,3-butadiene	ND		0.0507	1.73	09/09/2021 17:30	WG1737320
Isopropylbenzene	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
p-Isopropyltoluene	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
2-Butanone (MEK)	ND		0.203	1.73	09/09/2021 17:30	WG1737320
Methylene Chloride	ND		0.0507	1.73	09/09/2021 17:30	WG1737320
4-Methyl-2-pentanone (MIBK)	ND		0.0507	1.73	09/09/2021 17:30	WG1737320
Methyl tert-butyl ether	ND		0.00203	1.73	09/09/2021 17:30	WG1737320
Naphthalene	ND		0.0253	1.73	09/09/2021 17:30	WG1737320
n-Propylbenzene	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
Styrene	ND		0.0253	1.73	09/09/2021 17:30	WG1737320
1,1,1,2-Tetrachloroethane	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
1,1,2,2-Tetrachloroethane	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
1,1,2-Trichlorotrifluoroethane	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
Tetrachloroethene	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
Toluene	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
1,2,3-Trichlorobenzene	ND		0.0253	1.73	09/09/2021 17:30	WG1737320
1,2,4-Trichlorobenzene	ND		0.0253	1.73	09/09/2021 17:30	WG1737320
1,1,1-Trichloroethane	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
1,1,2-Trichloroethane	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
Trichloroethene	ND		0.00203	1.73	09/09/2021 17:30	WG1737320
Trichlorofluoromethane	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
1,2,3-Trichloropropane	ND		0.0253	1.73	09/09/2021 17:30	WG1737320
1,2,4-Trimethylbenzene	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
1,2,3-Trimethylbenzene	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
1,3,5-Trimethylbenzene	ND		0.0101	1.73	09/09/2021 17:30	WG1737320
Vinyl chloride	ND		0.00507	1.73	09/09/2021 17:30	WG1737320
Xylenes, Total	ND		0.0131	1.73	09/09/2021 17:30	WG1737320
(S) Toluene-d8	106		75.0-131		09/09/2021 17:30	WG1737320
(S) 4-Bromofluorobenzene	97.6		67.0-138		09/09/2021 17:30	WG1737320
(S) 1,2-Dichloroethane-d4	79.2		70.0-130		09/09/2021 17:30	WG1737320

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		4.43	1	09/12/2021 12:03	WG1737929
Residual Range Organics (RRO)	ND		11.1	1	09/12/2021 12:03	WG1737929
(S) o-Terphenyl	70.9		18.0-148		09/12/2021 12:03	WG1737929

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0377	1	09/11/2021 13:20	WG1737584
PCB 1221	ND		0.0377	1	09/11/2021 13:20	WG1737584
PCB 1232	ND		0.0377	1	09/11/2021 13:20	WG1737584
PCB 1242	ND		0.0377	1	09/11/2021 13:20	WG1737584
PCB 1248	ND		0.0188	1	09/11/2021 13:20	WG1737584
PCB 1254	ND		0.0188	1	09/11/2021 13:20	WG1737584
PCB 1260	ND		0.0188	1	09/11/2021 13:20	WG1737584
(S) Decachlorobiphenyl	111		10.0-135		09/11/2021 13:20	WG1737584
(S) Tetrachloro-m-xylene	93.8		10.0-139		09/11/2021 13:20	WG1737584

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00665	1	09/11/2021 12:17	WG1737590
Acenaphthene	ND		0.00665	1	09/11/2021 12:17	WG1737590
Acenaphthylene	ND		0.00665	1	09/11/2021 12:17	WG1737590
Benzo(a)anthracene	ND		0.00665	1	09/11/2021 12:17	WG1737590
Benzo(a)pyrene	ND		0.00665	1	09/11/2021 12:17	WG1737590
Benzo(b)fluoranthene	ND		0.00665	1	09/11/2021 12:17	WG1737590
Benzo(g,h,i)perylene	ND		0.00665	1	09/11/2021 12:17	WG1737590
Benzo(k)fluoranthene	ND		0.00665	1	09/11/2021 12:17	WG1737590
Chrysene	ND		0.00665	1	09/11/2021 12:17	WG1737590
Dibenz(a,h)anthracene	ND		0.00665	1	09/11/2021 12:17	WG1737590
Fluoranthene	ND		0.00665	1	09/11/2021 12:17	WG1737590
Fluorene	ND		0.00665	1	09/11/2021 12:17	WG1737590
Indeno(1,2,3-cd)pyrene	ND		0.00665	1	09/11/2021 12:17	WG1737590
Naphthalene	ND		0.0222	1	09/11/2021 12:17	WG1737590
Phenanthrene	ND		0.00665	1	09/11/2021 12:17	WG1737590
Pyrene	ND		0.00665	1	09/11/2021 12:17	WG1737590
1-Methylnaphthalene	ND		0.0222	1	09/11/2021 12:17	WG1737590
2-Methylnaphthalene	ND		0.0222	1	09/11/2021 12:17	WG1737590
2-Chloronaphthalene	ND		0.0222	1	09/11/2021 12:17	WG1737590
(S) p-Terphenyl-d14	92.6		23.0-120		09/11/2021 12:17	WG1737590
(S) Nitrobenzene-d5	51.2		14.0-149		09/11/2021 12:17	WG1737590
(S) 2-Fluorobiphenyl	74.8		34.0-125		09/11/2021 12:17	WG1737590

6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.8		1	09/15/2021 11:04	WG1739929

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0405	1	09/09/2021 13:03	WG1736527

Metals (ICP) by Method 6010B

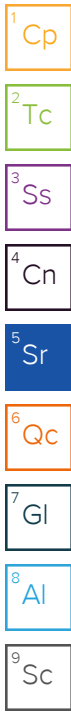
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	ND		2.02	1	09/10/2021 13:02	WG1736350
Barium	21.5		0.506	1	09/10/2021 13:02	WG1736350
Cadmium	ND		0.506	1	09/10/2021 13:02	WG1736350
Chromium	4.67		1.01	1	09/10/2021 13:02	WG1736350
Lead	0.973		0.506	1	09/10/2021 13:02	WG1736350
Selenium	ND		2.02	1	09/10/2021 13:02	WG1736350
Silver	ND		1.01	1	09/10/2021 13:02	WG1736350

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline Range Organics-NWTPH	ND		3.97	39	09/11/2021 11:35	WG1738117
(S) a,a,a-Trifluorotoluene(FID)	97.3		77.0-120		09/11/2021 11:35	WG1738117

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0795	1.56	09/09/2021 17:49	WG1737320
Acrylonitrile	ND		0.0199	1.56	09/09/2021 17:49	WG1737320
Benzene	ND		0.00159	1.56	09/09/2021 17:49	WG1737320
Bromobenzene	ND		0.0199	1.56	09/09/2021 17:49	WG1737320
Bromodichloromethane	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
Bromoform	ND		0.0397	1.56	09/09/2021 17:49	WG1737320
Bromomethane	ND		0.0199	1.56	09/09/2021 17:49	WG1737320
n-Butylbenzene	ND		0.0199	1.56	09/09/2021 17:49	WG1737320
sec-Butylbenzene	ND		0.0199	1.56	09/09/2021 17:49	WG1737320
tert-Butylbenzene	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
Carbon tetrachloride	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
Chlorobenzene	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
Chlorodibromomethane	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
Chloroethane	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
Chloroform	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
Chloromethane	ND		0.0199	1.56	09/09/2021 17:49	WG1737320
2-Chlorotoluene	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
4-Chlorotoluene	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
1,2-Dibromo-3-Chloropropane	ND		0.0397	1.56	09/09/2021 17:49	WG1737320
1,2-Dibromoethane	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
Dibromomethane	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
1,2-Dichlorobenzene	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
1,3-Dichlorobenzene	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
1,4-Dichlorobenzene	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
Dichlorodifluoromethane	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
1,1-Dichloroethane	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
1,2-Dichloroethane	ND		0.00397	1.56	09/09/2021 17:49	WG1737320



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
cis-1,2-Dichloroethene	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
trans-1,2-Dichloroethene	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
1,2-Dichloropropane	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
1,1-Dichloropropene	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
1,3-Dichloropropane	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
cis-1,3-Dichloropropene	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
trans-1,3-Dichloropropene	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
2,2-Dichloropropane	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
Di-isopropyl ether	ND		0.00159	1.56	09/09/2021 17:49	WG1737320
Ethylbenzene	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
Hexachloro-1,3-butadiene	ND		0.0397	1.56	09/09/2021 17:49	WG1737320
Isopropylbenzene	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
p-Isopropyltoluene	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
2-Butanone (MEK)	ND		0.159	1.56	09/09/2021 17:49	WG1737320
Methylene Chloride	ND		0.0397	1.56	09/09/2021 17:49	WG1737320
4-Methyl-2-pentanone (MIBK)	ND		0.0397	1.56	09/09/2021 17:49	WG1737320
Methyl tert-butyl ether	ND		0.00159	1.56	09/09/2021 17:49	WG1737320
Naphthalene	ND		0.0199	1.56	09/09/2021 17:49	WG1737320
n-Propylbenzene	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
Styrene	ND		0.0199	1.56	09/09/2021 17:49	WG1737320
1,1,1,2-Tetrachloroethane	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
1,1,1,2-Tetrachloroethane	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
1,1,2-Trichlorotrifluoroethane	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
Tetrachloroethene	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
Toluene	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
1,2,3-Trichlorobenzene	ND		0.0199	1.56	09/09/2021 17:49	WG1737320
1,2,4-Trichlorobenzene	ND		0.0199	1.56	09/09/2021 17:49	WG1737320
1,1,1-Trichloroethane	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
1,1,2-Trichloroethane	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
Trichloroethene	ND		0.00159	1.56	09/09/2021 17:49	WG1737320
Trichlorofluoromethane	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
1,2,3-Trichloropropane	ND		0.0199	1.56	09/09/2021 17:49	WG1737320
1,2,4-Trimethylbenzene	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
1,2,3-Trimethylbenzene	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
1,3,5-Trimethylbenzene	ND		0.00795	1.56	09/09/2021 17:49	WG1737320
Vinyl chloride	ND		0.00397	1.56	09/09/2021 17:49	WG1737320
Xylenes, Total	ND		0.0103	1.56	09/09/2021 17:49	WG1737320
(S) Toluene-d8	99.7		75.0-131		09/09/2021 17:49	WG1737320
(S) 4-Bromofluorobenzene	102		67.0-138		09/09/2021 17:49	WG1737320
(S) 1,2-Dichloroethane-d4	83.2		70.0-130		09/09/2021 17:49	WG1737320

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		4.05	1	09/12/2021 12:16	WG1737929
Residual Range Organics (RRO)	ND		10.1	1	09/12/2021 12:16	WG1737929
(S) o-Terphenyl	68.6		18.0-148		09/12/2021 12:16	WG1737929

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0344	1	09/11/2021 13:29	WG1737584
PCB 1221	ND		0.0344	1	09/11/2021 13:29	WG1737584
PCB 1232	ND		0.0344	1	09/11/2021 13:29	WG1737584
PCB 1242	ND		0.0344	1	09/11/2021 13:29	WG1737584
PCB 1248	ND		0.0172	1	09/11/2021 13:29	WG1737584
PCB 1254	ND		0.0172	1	09/11/2021 13:29	WG1737584
PCB 1260	ND		0.0172	1	09/11/2021 13:29	WG1737584
(S) Decachlorobiphenyl	50.4		10.0-135		09/11/2021 13:29	WG1737584
(S) Tetrachloro-m-xylene	60.4		10.0-139		09/11/2021 13:29	WG1737584

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00607	1	09/11/2021 12:37	WG1737590
Acenaphthene	ND		0.00607	1	09/11/2021 12:37	WG1737590
Acenaphthylene	ND		0.00607	1	09/11/2021 12:37	WG1737590
Benzo(a)anthracene	ND		0.00607	1	09/11/2021 12:37	WG1737590
Benzo(a)pyrene	ND		0.00607	1	09/11/2021 12:37	WG1737590
Benzo(b)fluoranthene	ND		0.00607	1	09/11/2021 12:37	WG1737590
Benzo(g,h,i)perylene	ND		0.00607	1	09/11/2021 12:37	WG1737590
Benzo(k)fluoranthene	ND		0.00607	1	09/11/2021 12:37	WG1737590
Chrysene	ND		0.00607	1	09/11/2021 12:37	WG1737590
Dibenz(a,h)anthracene	ND		0.00607	1	09/11/2021 12:37	WG1737590
Fluoranthene	ND		0.00607	1	09/11/2021 12:37	WG1737590
Fluorene	ND		0.00607	1	09/11/2021 12:37	WG1737590
Indeno(1,2,3-cd)pyrene	ND		0.00607	1	09/11/2021 12:37	WG1737590
Naphthalene	ND		0.0202	1	09/11/2021 12:37	WG1737590
Phenanthrene	ND		0.00607	1	09/11/2021 12:37	WG1737590
Pyrene	ND		0.00607	1	09/11/2021 12:37	WG1737590
1-Methylnaphthalene	ND		0.0202	1	09/11/2021 12:37	WG1737590
2-Methylnaphthalene	ND		0.0202	1	09/11/2021 12:37	WG1737590
2-Chloronaphthalene	ND		0.0202	1	09/11/2021 12:37	WG1737590
(S) p-Terphenyl-d14	93.5		23.0-120		09/11/2021 12:37	WG1737590
(S) Nitrobenzene-d5	56.9		14.0-149		09/11/2021 12:37	WG1737590
(S) 2-Fluorobiphenyl	81.6		34.0-125		09/11/2021 12:37	WG1737590

6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		100	1	09/13/2021 11:24	WG1738336
(S) a, a, a-Trifluorotoluene(FID)	105		78.0-120		09/13/2021 11:24	WG1738336

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	09/09/2021 10:09	WG1737120
Acrolein	ND		50.0	1	09/09/2021 10:09	WG1737120
Acrylonitrile	ND		10.0	1	09/09/2021 10:09	WG1737120
Benzene	ND		1.00	1	09/09/2021 10:09	WG1737120
Bromobenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
Bromodichloromethane	ND		1.00	1	09/09/2021 10:09	WG1737120
Bromoform	ND		1.00	1	09/09/2021 10:09	WG1737120
Bromomethane	ND		5.00	1	09/09/2021 10:09	WG1737120
n-Butylbenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
sec-Butylbenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
tert-Butylbenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
Carbon tetrachloride	ND		1.00	1	09/09/2021 10:09	WG1737120
Chlorobenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
Chlorodibromomethane	ND		1.00	1	09/09/2021 10:09	WG1737120
Chloroethane	ND		5.00	1	09/09/2021 10:09	WG1737120
Chloroform	ND		5.00	1	09/09/2021 10:09	WG1737120
Chloromethane	ND		2.50	1	09/09/2021 10:09	WG1737120
2-Chlorotoluene	ND		1.00	1	09/09/2021 10:09	WG1737120
4-Chlorotoluene	ND		1.00	1	09/09/2021 10:09	WG1737120
1,2-Dibromo-3-Chloropropane	ND		5.00	1	09/09/2021 10:09	WG1737120
1,2-Dibromoethane	ND		1.00	1	09/09/2021 10:09	WG1737120
Dibromomethane	ND		1.00	1	09/09/2021 10:09	WG1737120
1,2-Dichlorobenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
1,3-Dichlorobenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
1,4-Dichlorobenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
Dichlorodifluoromethane	ND		5.00	1	09/09/2021 10:09	WG1737120
1,1-Dichloroethane	ND		1.00	1	09/09/2021 10:09	WG1737120
1,2-Dichloroethane	ND		1.00	1	09/09/2021 10:09	WG1737120
1,1-Dichloroethene	ND		1.00	1	09/09/2021 10:09	WG1737120
cis-1,2-Dichloroethene	ND		1.00	1	09/09/2021 10:09	WG1737120
trans-1,2-Dichloroethene	ND		1.00	1	09/09/2021 10:09	WG1737120
1,2-Dichloropropane	ND		1.00	1	09/09/2021 10:09	WG1737120
1,1-Dichloropropene	ND		1.00	1	09/09/2021 10:09	WG1737120
1,3-Dichloropropane	ND		1.00	1	09/09/2021 10:09	WG1737120
cis-1,3-Dichloropropene	ND		1.00	1	09/09/2021 10:09	WG1737120
trans-1,3-Dichloropropene	ND		1.00	1	09/09/2021 10:09	WG1737120
2,2-Dichloropropane	ND		1.00	1	09/09/2021 10:09	WG1737120
Di-isopropyl ether	ND		1.00	1	09/09/2021 10:09	WG1737120
Ethylbenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
Hexachloro-1,3-butadiene	ND	J4	1.00	1	09/09/2021 10:09	WG1737120
Isopropylbenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
p-Isopropyltoluene	ND		1.00	1	09/09/2021 10:09	WG1737120
2-Butanone (MEK)	ND		10.0	1	09/09/2021 10:09	WG1737120
Methylene Chloride	ND		5.00	1	09/09/2021 10:09	WG1737120
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	09/09/2021 10:09	WG1737120
Methyl tert-butyl ether	ND		1.00	1	09/09/2021 10:09	WG1737120
Naphthalene	ND		5.00	1	09/09/2021 10:09	WG1737120
n-Propylbenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
Styrene	ND		1.00	1	09/09/2021 10:09	WG1737120

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	09/09/2021 10:09	WG1737120
1,1,2,2-Tetrachloroethane	ND		1.00	1	09/09/2021 10:09	WG1737120
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	09/09/2021 10:09	WG1737120
Tetrachloroethene	ND		1.00	1	09/09/2021 10:09	WG1737120
Toluene	ND		1.00	1	09/09/2021 10:09	WG1737120
1,2,3-Trichlorobenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
1,2,4-Trichlorobenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
1,1,1-Trichloroethane	ND		1.00	1	09/09/2021 10:09	WG1737120
1,1,2-Trichloroethane	ND		1.00	1	09/09/2021 10:09	WG1737120
Trichloroethene	ND		1.00	1	09/09/2021 10:09	WG1737120
Trichlorofluoromethane	ND		5.00	1	09/09/2021 10:09	WG1737120
1,2,3-Trichloropropane	ND		2.50	1	09/09/2021 10:09	WG1737120
1,2,4-Trimethylbenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
1,2,3-Trimethylbenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
1,3,5-Trimethylbenzene	ND		1.00	1	09/09/2021 10:09	WG1737120
Vinyl chloride	ND		1.00	1	09/09/2021 10:09	WG1737120
Xylenes, Total	ND		3.00	1	09/09/2021 10:09	WG1737120
(S) Toluene-d8	98.1		80.0-120		09/09/2021 10:09	WG1737120
(S) 4-Bromofluorobenzene	94.3		77.0-126		09/09/2021 10:09	WG1737120
(S) 1,2-Dichloroethane-d4	111		70.0-130		09/09/2021 10:09	WG1737120

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	09/10/2021 11:55	WG1736542

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		2.00	1	09/08/2021 18:53	WG1736073
Barium	ND		2.00	1	09/08/2021 18:53	WG1736073
Cadmium	ND		1.00	1	09/08/2021 18:53	WG1736073
Chromium	ND		2.00	1	09/08/2021 18:53	WG1736073
Lead	ND		2.00	1	09/08/2021 18:53	WG1736073
Selenium	ND		2.00	1	09/08/2021 18:53	WG1736073
Silver	ND		2.00	1	09/08/2021 18:53	WG1736073

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	09/09/2021 15:59	WG1737120
Acrolein	ND		50.0	1	09/09/2021 15:59	WG1737120
Acrylonitrile	ND		10.0	1	09/09/2021 15:59	WG1737120
Benzene	ND		1.00	1	09/09/2021 15:59	WG1737120
Bromobenzene	ND		1.00	1	09/09/2021 15:59	WG1737120
Bromodichloromethane	ND		1.00	1	09/09/2021 15:59	WG1737120
Bromoform	ND		1.00	1	09/09/2021 15:59	WG1737120
Bromomethane	ND		5.00	1	09/09/2021 15:59	WG1737120
n-Butylbenzene	ND		1.00	1	09/09/2021 15:59	WG1737120
sec-Butylbenzene	ND		1.00	1	09/09/2021 15:59	WG1737120
tert-Butylbenzene	ND		1.00	1	09/09/2021 15:59	WG1737120
Carbon tetrachloride	ND		1.00	1	09/09/2021 15:59	WG1737120
Chlorobenzene	ND		1.00	1	09/09/2021 15:59	WG1737120
Chlorodibromomethane	ND		1.00	1	09/09/2021 15:59	WG1737120
Chloroethane	ND		5.00	1	09/09/2021 15:59	WG1737120
Chloroform	ND		5.00	1	09/09/2021 15:59	WG1737120
Chloromethane	ND		2.50	1	09/09/2021 15:59	WG1737120
2-Chlorotoluene	ND		1.00	1	09/09/2021 15:59	WG1737120
4-Chlorotoluene	ND		1.00	1	09/09/2021 15:59	WG1737120
1,2-Dibromo-3-Chloropropane	ND		5.00	1	09/09/2021 15:59	WG1737120
1,2-Dibromoethane	ND		1.00	1	09/09/2021 15:59	WG1737120
Dibromomethane	ND		1.00	1	09/09/2021 15:59	WG1737120
1,2-Dichlorobenzene	ND		1.00	1	09/09/2021 15:59	WG1737120
1,3-Dichlorobenzene	ND		1.00	1	09/09/2021 15:59	WG1737120
1,4-Dichlorobenzene	ND		1.00	1	09/09/2021 15:59	WG1737120
Dichlorodifluoromethane	ND		5.00	1	09/09/2021 15:59	WG1737120
1,1-Dichloroethane	ND		1.00	1	09/09/2021 15:59	WG1737120
1,2-Dichloroethane	ND		1.00	1	09/09/2021 15:59	WG1737120
1,1-Dichloroethene	ND		1.00	1	09/09/2021 15:59	WG1737120
cis-1,2-Dichloroethene	ND		1.00	1	09/09/2021 15:59	WG1737120
trans-1,2-Dichloroethene	ND		1.00	1	09/09/2021 15:59	WG1737120
1,2-Dichloropropane	ND		1.00	1	09/09/2021 15:59	WG1737120
1,1-Dichloropropene	ND		1.00	1	09/09/2021 15:59	WG1737120
1,3-Dichloropropane	ND		1.00	1	09/09/2021 15:59	WG1737120
cis-1,3-Dichloropropene	ND		1.00	1	09/09/2021 15:59	WG1737120
trans-1,3-Dichloropropene	ND		1.00	1	09/09/2021 15:59	WG1737120
2,2-Dichloropropane	ND		1.00	1	09/09/2021 15:59	WG1737120
Di-isopropyl ether	ND		1.00	1	09/09/2021 15:59	WG1737120
Ethylbenzene	ND		1.00	1	09/09/2021 15:59	WG1737120



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Hexachloro-1,3-butadiene	ND	J4	1.00	1	09/09/2021 15:59	WG1737120
Isopropylbenzene	ND		1.00	1	09/09/2021 15:59	WG1737120
p-Isopropyltoluene	ND		1.00	1	09/09/2021 15:59	WG1737120
2-Butanone (MEK)	ND		10.0	1	09/09/2021 15:59	WG1737120
Methylene Chloride	ND		5.00	1	09/09/2021 15:59	WG1737120
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	09/09/2021 15:59	WG1737120
Methyl tert-butyl ether	ND		1.00	1	09/09/2021 15:59	WG1737120
Naphthalene	ND		5.00	1	09/09/2021 15:59	WG1737120
n-Propylbenzene	ND		1.00	1	09/09/2021 15:59	WG1737120
Styrene	ND		1.00	1	09/09/2021 15:59	WG1737120
1,1,1,2-Tetrachloroethane	ND		1.00	1	09/09/2021 15:59	WG1737120
1,1,2,2-Tetrachloroethane	ND		1.00	1	09/09/2021 15:59	WG1737120
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	09/09/2021 15:59	WG1737120
Tetrachloroethene	ND		1.00	1	09/09/2021 15:59	WG1737120
Toluene	ND		1.00	1	09/09/2021 15:59	WG1737120
1,2,3-Trichlorobenzene	ND		1.00	1	09/09/2021 15:59	WG1737120
1,2,4-Trichlorobenzene	ND		1.00	1	09/09/2021 15:59	WG1737120
1,1,1-Trichloroethane	ND		1.00	1	09/09/2021 15:59	WG1737120
1,1,2-Trichloroethane	ND		1.00	1	09/09/2021 15:59	WG1737120
Trichloroethene	ND		1.00	1	09/09/2021 15:59	WG1737120
Trichlorofluoromethane	ND		5.00	1	09/09/2021 15:59	WG1737120
1,2,3-Trichloropropane	ND		2.50	1	09/09/2021 15:59	WG1737120
1,2,4-Trimethylbenzene	ND		1.00	1	09/09/2021 15:59	WG1737120
1,2,3-Trimethylbenzene	ND		1.00	1	09/09/2021 15:59	WG1737120
1,3,5-Trimethylbenzene	ND		1.00	1	09/09/2021 15:59	WG1737120
Vinyl chloride	ND		1.00	1	09/09/2021 15:59	WG1737120
Xylenes, Total	ND		3.00	1	09/09/2021 15:59	WG1737120
(S) Toluene-d8	99.2		80.0-120		09/09/2021 15:59	WG1737120
(S) 4-Bromofluorobenzene	95.8		77.0-126		09/09/2021 15:59	WG1737120
(S) 1,2-Dichloroethane-d4	111		70.0-130		09/09/2021 15:59	WG1737120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylene Dibromide	ND		0.0200	1	09/08/2021 21:33	WG1735981
1,2-Dibromo-3-Chloropropane	ND		0.0200	1	09/08/2021 21:33	WG1735981

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) High Fraction	ND		100	1	09/14/2021 06:46	WG1737573
(S) o-Terphenyl	58.4		31.0-160		09/14/2021 06:46	WG1737573

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
PCB 1016	ND		0.500	1	09/10/2021 03:45	WG1737626
PCB 1221	ND		0.500	1	09/10/2021 03:45	WG1737626
PCB 1232	ND		0.500	1	09/10/2021 03:45	WG1737626
PCB 1242	ND		0.500	1	09/10/2021 03:45	WG1737626
PCB 1248	ND		0.500	1	09/10/2021 03:45	WG1737626
PCB 1254	ND		0.500	1	09/10/2021 03:45	WG1737626
PCB 1260	ND		0.500	1	09/10/2021 03:45	WG1737626
(S) Decachlorobiphenyl	56.1		10.0-128		09/10/2021 03:45	WG1737626
(S) Tetrachloro-m-xylene	88.0		10.0-127		09/10/2021 03:45	WG1737626

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0500	1	09/05/2021 22:18	WG1735435
Acenaphthene	ND		0.0500	1	09/05/2021 22:18	WG1735435
Acenaphthylene	ND		0.0500	1	09/05/2021 22:18	WG1735435
Benzo(a)anthracene	ND		0.0500	1	09/05/2021 22:18	WG1735435
Benzo(a)pyrene	ND		0.0500	1	09/05/2021 22:18	WG1735435
Benzo(b)fluoranthene	ND		0.0500	1	09/05/2021 22:18	WG1735435
Benzo(g,h,i)perylene	ND		0.0500	1	09/05/2021 22:18	WG1735435
Benzo(k)fluoranthene	ND		0.0500	1	09/05/2021 22:18	WG1735435
Chrysene	ND		0.0500	1	09/05/2021 22:18	WG1735435
Dibenz(a,h)anthracene	ND		0.0500	1	09/05/2021 22:18	WG1735435
Fluoranthene	ND		0.100	1	09/05/2021 22:18	WG1735435
Fluorene	ND		0.0500	1	09/05/2021 22:18	WG1735435
Indeno(1,2,3-cd)pyrene	ND		0.0500	1	09/05/2021 22:18	WG1735435
Naphthalene	ND		0.250	1	09/05/2021 22:18	WG1735435
Phenanthrene	ND		0.0500	1	09/05/2021 22:18	WG1735435
Pyrene	ND		0.0500	1	09/05/2021 22:18	WG1735435
1-Methylnaphthalene	ND		0.250	1	09/05/2021 22:18	WG1735435
2-Methylnaphthalene	ND		0.250	1	09/05/2021 22:18	WG1735435
2-Chloronaphthalene	ND		0.250	1	09/05/2021 22:18	WG1735435
(S) Nitrobenzene-d5	137		31.0-160		09/05/2021 22:18	WG1735435
(S) 2-Fluorobiphenyl	120		48.0-148		09/05/2021 22:18	WG1735435
(S) p-Terphenyl-d14	156	<u>J1</u>	37.0-146		09/05/2021 22:18	WG1735435

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3704911-1 09/15/21 11:15

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

¹Cp

²Tc

³Ss

L1399572-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1399572-18 09/15/21 11:15 • (DUP) R3704911-3 09/15/21 11:15

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	89.3	89.2	1	0.109		10

⁴Cn

⁵Sr

Laboratory Control Sample (LCS)

(LCS) R3704911-2 09/15/21 11:15

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3704910-1 09/15/21 11:04

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

¹Cp

²Tc

³Ss

L1399574-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1399574-02 09/15/21 11:04 • (DUP) R3704910-3 09/15/21 11:04

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	82.7	77.6	1	6.27		10

⁴Cn

⁵Sr

Laboratory Control Sample (LCS)

(LCS) R3704910-2 09/15/21 11:04

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3702843-1 09/10/21 11:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Mercury	U		0.100	0.200

Laboratory Control Sample (LCS)

(LCS) R3702843-2 09/10/21 11:41

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Mercury	3.00	3.29	110	80.0-120	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3702843-3 09/10/21 11:49 • (MSD) R3702843-4 09/10/21 11:51

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Mercury	3.00		3.33	3.27	111	109	1	75.0-125			1.82	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3702310-1 09/09/21 11:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3702310-2 09/09/21 11:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.528	106	80.0-120	

L1399574-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399574-01 09/09/21 12:01 • (MS) R3702310-3 09/09/21 12:04 • (MSD) R3702310-4 09/09/21 12:06

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.855	ND	0.856	0.853	100	99.9	1	75.0-125			0.350	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3702930-1 09/10/21 11:50

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Arsenic	U		0.518	2.00
Cadmium	0.0548	J	0.0471	0.500
Chromium	U		0.133	1.00
Lead	U		0.208	0.500
Selenium	U		0.764	2.00
Silver	U		0.127	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

Method Blank (MB)

(MB) R3703083-1 09/10/21 22:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Barium	0.109	J	0.0852	0.500

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3702930-2 09/10/21 11:52

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
Arsenic	100	91.3	91.3	80.0-120	
Cadmium	100	85.6	85.6	80.0-120	
Chromium	100	88.3	88.3	80.0-120	
Lead	100	87.5	87.5	80.0-120	
Selenium	100	92.2	92.2	80.0-120	
Silver	20.0	16.2	81.2	80.0-120	

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3703083-2 09/10/21 22:03

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
Barium	100	96.5	96.5	80.0-120	

L1399572-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399572-04 09/10/21 11:55 • (MS) R3702930-5 09/10/21 12:03 • (MSD) R3702930-6 09/10/21 12:05

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	108	3.04	116	102	105	91.7	1	75.0-125			12.9	20
Cadmium	108	ND	107	91.8	99.2	85.0	1	75.0-125			15.4	20
Chromium	108	10.0	120	105	102	87.8	1	75.0-125			13.6	20
Lead	108	7.32	117	100	101	86.2	1	75.0-125			15.0	20
Selenium	108	ND	117	100	108	93.0	1	75.0-125			15.2	20
Silver	21.6	ND	20.0	17.2	92.7	79.9	1	75.0-125			14.8	20

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

L1399572-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399572-04 09/10/21 22:06 • (MS) R3703083-5 09/10/21 22:14 • (MSD) R3703083-6 09/10/21 22:16

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	108	34.6	150	131	107	88.9	1	75.0-125			14.1	20

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3701629-1 09/08/21 11:45

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Lead	U		0.849	2.00

¹Cp

²Tc

³Ss

Method Blank (MB)

(MB) R3701629-6 09/08/21 17:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Arsenic	U		0.180	2.00
Barium	U		0.381	2.00
Cadmium	U		0.150	1.00
Chromium	1.66	J	1.24	2.00
Selenium	U		0.300	2.00
Silver	U		0.0700	2.00

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3701629-2 09/08/21 11:48

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Lead	50.0	46.4	92.7	80.0-120	

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3701629-7 09/08/21 17:27

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Arsenic	50.0	44.5	88.9	80.0-120	
Barium	50.0	47.4	94.9	80.0-120	
Cadmium	50.0	49.2	98.5	80.0-120	
Chromium	50.0	46.1	92.3	80.0-120	
Selenium	50.0	44.3	88.5	80.0-120	
Silver	50.0	47.5	95.0	80.0-120	

L1399298-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399298-17 09/08/21 11:52 • (MS) R3701629-4 09/08/21 11:59 • (MSD) R3701629-5 09/08/21 12:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	50.0	ND	47.9	48.3	95.7	96.7	1	75.0-125			0.949	20

L1399298-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399298-17 09/08/21 17:30 • (MS) R3701629-9 09/08/21 17:37 • (MSD) R3701629-10 09/08/21 17:40

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	50.0	16.3	63.3	64.1	93.8	95.5	1	75.0-125			1.27	20
Barium	50.0	38.8	87.6	86.7	97.7	95.9	1	75.0-125			1.05	20
Cadmium	50.0	ND	50.9	50.5	102	101	1	75.0-125			0.756	20
Chromium	50.0	ND	48.0	47.4	96.0	94.8	1	75.0-125			1.26	20
Selenium	50.0	ND	47.7	51.3	94.8	102	1	75.0-125			7.17	20
Silver	50.0	ND	49.1	48.9	98.2	97.7	1	75.0-125			0.527	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3702166-2 09/09/21 03:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	U		0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	92.9			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3702166-1 09/09/21 02:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5.50	5.12	93.1	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			112	77.0-120	

L1398647-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1398647-04 09/09/21 05:56 • (MS) R3702166-3 09/09/21 12:54 • (MSD) R3702166-4 09/09/21 13:16

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	131	ND	120	119	80.2	79.4	25	10.0-149			0.957	27
(S) a,a,a-Trifluorotoluene(FID)					108	107		77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3703303-3 09/11/21 11:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	1.17	↓	0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	97.6			77.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3703303-1 09/11/21 09:56 • (LCSD) R3703303-2 09/11/21 10:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5.50	5.59	5.45	102	99.1	71.0-124			2.54	20
(S) a,a,a-Trifluorotoluene(FID)				104	104	77.0-120				

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3703723-1 09/13/21 09:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	48.6	↓	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3703723-2 09/13/21 10:03

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5530	101	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			112	78.0-120	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3702346-2 09/09/21 08:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3702346-2 09/09/21 08:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	2.14	U	1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	95.6			80.0-120
(S) 4-Bromofluorobenzene	93.9			77.0-126
(S) 1,2-Dichloroethane-d4	110			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3702346-1 09/09/21 07:43

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Acetone	25.0	39.4	158	19.0-160	
Acrolein	25.0	28.8	115	10.0-160	
Acrylonitrile	25.0	32.1	128	55.0-149	
Benzene	5.00	4.92	98.4	70.0-123	

Laboratory Control Sample (LCS)

(LCS) R3702346-1 09/09/21 07:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromobenzene	5.00	5.48	110	73.0-121	
Bromodichloromethane	5.00	4.54	90.8	75.0-120	
Bromoform	5.00	3.53	70.6	68.0-132	
Bromomethane	5.00	4.70	94.0	10.0-160	
n-Butylbenzene	5.00	5.28	106	73.0-125	
sec-Butylbenzene	5.00	5.39	108	75.0-125	
tert-Butylbenzene	5.00	5.06	101	76.0-124	
Carbon tetrachloride	5.00	4.55	91.0	68.0-126	
Chlorobenzene	5.00	4.54	90.8	80.0-121	
Chlorodibromomethane	5.00	4.16	83.2	77.0-125	
Chloroethane	5.00	4.00	80.0	47.0-150	
Chloroform	5.00	5.03	101	73.0-120	
Chloromethane	5.00	4.33	86.6	41.0-142	
2-Chlorotoluene	5.00	5.20	104	76.0-123	
4-Chlorotoluene	5.00	4.94	98.8	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	3.75	75.0	58.0-134	
1,2-Dibromoethane	5.00	4.74	94.8	80.0-122	
Dibromomethane	5.00	4.95	99.0	80.0-120	
1,2-Dichlorobenzene	5.00	5.70	114	79.0-121	
1,3-Dichlorobenzene	5.00	5.38	108	79.0-120	
1,4-Dichlorobenzene	5.00	5.38	108	79.0-120	
Dichlorodifluoromethane	5.00	4.22	84.4	51.0-149	
1,1-Dichloroethane	5.00	4.42	88.4	70.0-126	
1,2-Dichloroethane	5.00	5.25	105	70.0-128	
1,1-Dichloroethene	5.00	3.96	79.2	71.0-124	
cis-1,2-Dichloroethene	5.00	4.45	89.0	73.0-120	
trans-1,2-Dichloroethene	5.00	4.19	83.8	73.0-120	
1,2-Dichloropropane	5.00	5.24	105	77.0-125	
1,1-Dichloropropene	5.00	4.86	97.2	74.0-126	
1,3-Dichloropropane	5.00	5.13	103	80.0-120	
cis-1,3-Dichloropropene	5.00	5.10	102	80.0-123	
trans-1,3-Dichloropropene	5.00	4.39	87.8	78.0-124	
2,2-Dichloropropane	5.00	5.94	119	58.0-130	
Di-isopropyl ether	5.00	5.22	104	58.0-138	
Ethylbenzene	5.00	4.98	99.6	79.0-123	
Hexachloro-1,3-butadiene	5.00	7.36	147	54.0-138	J4
Isopropylbenzene	5.00	4.65	93.0	76.0-127	
p-Isopropyltoluene	5.00	4.89	97.8	76.0-125	
2-Butanone (MEK)	25.0	34.5	138	44.0-160	
Methylene Chloride	5.00	4.94	98.8	67.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3702346-1 09/09/21 07:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
4-Methyl-2-pentanone (MIBK)	25.0	28.9	116	68.0-142	
Methyl tert-butyl ether	5.00	5.13	103	68.0-125	
Naphthalene	5.00	4.93	98.6	54.0-135	
n-Propylbenzene	5.00	5.14	103	77.0-124	
Styrene	5.00	4.70	94.0	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.54	90.8	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	5.57	111	65.0-130	
Tetrachloroethene	5.00	4.58	91.6	72.0-132	
Toluene	5.00	4.35	87.0	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	4.59	91.8	69.0-132	
1,2,3-Trichlorobenzene	5.00	3.37	67.4	50.0-138	
1,2,4-Trichlorobenzene	5.00	5.56	111	57.0-137	
1,1,1-Trichloroethane	5.00	4.46	89.2	73.0-124	
1,1,2-Trichloroethane	5.00	4.49	89.8	80.0-120	
Trichloroethene	5.00	4.71	94.2	78.0-124	
Trichlorofluoromethane	5.00	4.21	84.2	59.0-147	
1,2,3-Trichloropropane	5.00	5.94	119	73.0-130	
1,2,3-Trimethylbenzene	5.00	5.34	107	77.0-120	
1,2,4-Trimethylbenzene	5.00	5.10	102	76.0-121	
1,3,5-Trimethylbenzene	5.00	5.37	107	76.0-122	
Vinyl chloride	5.00	4.15	83.0	67.0-131	
Xylenes, Total	15.0	14.5	96.7	79.0-123	
<i>(S) Toluene-d8</i>			96.1	80.0-120	
<i>(S) 4-Bromofluorobenzene</i>			93.2	77.0-126	
<i>(S) 1,2-Dichloroethane-d4</i>			111	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3703162-2 09/09/21 10:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00250
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3703162-2 09/09/21 10:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	103			75.0-131
(S) 4-Bromofluorobenzene	99.3			67.0-138
(S) 1,2-Dichloroethane-d4	77.6			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3703162-1 09/09/21 09:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.514	82.2	10.0-160	
Acrylonitrile	0.625	0.427	68.3	45.0-153	
Benzene	0.125	0.136	109	70.0-123	
Bromobenzene	0.125	0.123	98.4	73.0-121	
Bromodichloromethane	0.125	0.119	95.2	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3703162-1 09/09/21 09:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromoform	0.125	0.120	96.0	64.0-132	
Bromomethane	0.125	0.134	107	56.0-147	
n-Butylbenzene	0.125	0.117	93.6	68.0-135	
sec-Butylbenzene	0.125	0.133	106	74.0-130	
tert-Butylbenzene	0.125	0.126	101	75.0-127	
Carbon tetrachloride	0.125	0.118	94.4	66.0-128	
Chlorobenzene	0.125	0.124	99.2	76.0-128	
Chlorodibromomethane	0.125	0.117	93.6	74.0-127	
Chloroethane	0.125	0.135	108	61.0-134	
Chloroform	0.125	0.117	93.6	72.0-123	
Chloromethane	0.125	0.0994	79.5	51.0-138	
2-Chlorotoluene	0.125	0.119	95.2	75.0-124	
4-Chlorotoluene	0.125	0.130	104	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.119	95.2	59.0-130	
1,2-Dibromoethane	0.125	0.126	101	74.0-128	
Dibromomethane	0.125	0.123	98.4	75.0-122	
1,2-Dichlorobenzene	0.125	0.129	103	76.0-124	
1,3-Dichlorobenzene	0.125	0.123	98.4	76.0-125	
1,4-Dichlorobenzene	0.125	0.118	94.4	77.0-121	
Dichlorodifluoromethane	0.125	0.113	90.4	43.0-156	
1,1-Dichloroethane	0.125	0.118	94.4	70.0-127	
1,2-Dichloroethane	0.125	0.101	80.8	65.0-131	
1,1-Dichloroethene	0.125	0.108	86.4	65.0-131	
cis-1,2-Dichloroethene	0.125	0.139	111	73.0-125	
trans-1,2-Dichloroethene	0.125	0.126	101	71.0-125	
1,2-Dichloropropane	0.125	0.117	93.6	74.0-125	
1,1-Dichloropropene	0.125	0.135	108	73.0-125	
1,3-Dichloropropane	0.125	0.141	113	80.0-125	
cis-1,3-Dichloropropene	0.125	0.137	110	76.0-127	
trans-1,3-Dichloropropene	0.125	0.121	96.8	73.0-127	
2,2-Dichloropropane	0.125	0.138	110	59.0-135	
Di-isopropyl ether	0.125	0.109	87.2	60.0-136	
Ethylbenzene	0.125	0.137	110	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.137	110	57.0-150	
Isopropylbenzene	0.125	0.128	102	72.0-127	
p-Isopropyltoluene	0.125	0.124	99.2	72.0-133	
2-Butanone (MEK)	0.625	0.514	82.2	30.0-160	
Methylene Chloride	0.125	0.136	109	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.563	90.1	56.0-143	
Methyl tert-butyl ether	0.125	0.120	96.0	66.0-132	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3703162-1 09/09/21 09:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Naphthalene	0.125	0.136	109	59.0-130	
n-Propylbenzene	0.125	0.130	104	74.0-126	
Styrene	0.125	0.135	108	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.120	96.0	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.135	108	68.0-128	
Tetrachloroethene	0.125	0.124	99.2	70.0-136	
Toluene	0.125	0.131	105	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.106	84.8	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.116	92.8	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.136	109	62.0-137	
1,1,1-Trichloroethane	0.125	0.119	95.2	69.0-126	
1,1,2-Trichloroethane	0.125	0.137	110	78.0-123	
Trichloroethene	0.125	0.136	109	76.0-126	
Trichlorofluoromethane	0.125	0.0943	75.4	61.0-142	
1,2,3-Trichloropropane	0.125	0.121	96.8	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.122	97.6	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.125	100	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.125	100	73.0-127	
Vinyl chloride	0.125	0.132	106	63.0-134	
Xylenes, Total	0.375	0.398	106	72.0-127	
(S) Toluene-d8			101	75.0-131	
(S) 4-Bromofluorobenzene			100	67.0-138	
(S) 1,2-Dichloroethane-d4			83.4	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3703542-1 09/08/21 18:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Ethylene Dibromide	U		0.00536	0.0200
1,2-Dibromo-3-Chloropropane	U		0.00748	0.0200

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) R3703542-3 09/08/21 18:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l			%		%
Ethylene Dibromide	ND		1	0.000		20
1,2-Dibromo-3-Chloropropane	ND		1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

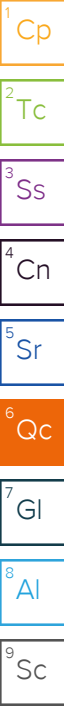
(LCS) R3703542-4 09/08/21 21:09 • (LCSD) R3703542-5 09/08/21 23:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Ethylene Dibromide	0.250	0.273	0.260	109	104	60.0-140			4.88	20
1,2-Dibromo-3-Chloropropane	0.250	0.265	0.254	106	102	60.0-140			4.24	20

Original Sample (OS) • Matrix Spike (MS)

(OS) • (MS) R3703542-2 09/08/21 18:29

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	ug/l		ug/l	%		%	
Ethylene Dibromide	0.100		0.106	106	1	64.0-159	
1,2-Dibromo-3-Chloropropane	0.100		0.103	103	1	72.0-148	



Method Blank (MB)

(MB) R3703805-1 09/13/21 17:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
TPH (GC/FID) High Fraction	U		24.7	100
(S) o-Terphenyl	77.5			31.0-160

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3703805-2 09/13/21 17:35 • (LCSD) R3703805-3 09/13/21 18:01

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1500	1540	1550	103	103	50.0-150			0.647	20
(S) o-Terphenyl				85.0	99.5	31.0-160				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3703451-1 09/12/21 10:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
<i>(S) o-Terphenyl</i>	85.9			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3703451-2 09/12/21 11:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	50.7	101	50.0-150	
<i>(S) o-Terphenyl</i>			104	18.0-148	

L1401181-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1401181-01 09/12/21 12:57 • (MS) R3703451-3 09/12/21 13:10 • (MSD) R3703451-4 09/12/21 13:24

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	48.8	ND	44.0	32.4	90.2	67.1	1	50.0-150		J3	30.4	20
<i>(S) o-Terphenyl</i>					86.3	66.1		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3702446-1 09/09/21 03:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	71.5			10.0-135
(S) Tetrachloro-m-xylene	83.9			10.0-139

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3702446-2 09/09/21 03:50

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
PCB 1260	0.167	0.0965	57.8	37.0-145	
PCB 1016	0.167	0.100	59.9	36.0-141	
(S) Decachlorobiphenyl			69.5	10.0-135	
(S) Tetrachloro-m-xylene			76.7	10.0-139	

7 Gl

8 Al

9 Sc

L1400024-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1400024-04 09/09/21 06:45 • (MS) R3702446-3 09/09/21 06:53 • (MSD) R3702446-4 09/09/21 07:02

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
PCB 1260	0.184	ND	0.184	0.127	100	69.1	1	10.0-160			37.1	38
PCB 1016	0.184	ND	2.81	1.29	1530	704	1	10.0-160	J5 P	J3 J5 P	74.4	37
(S) Decachlorobiphenyl					102	72.6		10.0-135				
(S) Tetrachloro-m-xylene					106	80.1		10.0-139				

Method Blank (MB)

(MB) R3703392-1 09/11/21 12:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	99.8			10.0-135
(S) Tetrachloro-m-xylene	90.1			10.0-139

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3703392-2 09/11/21 12:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1260	0.167	0.199	119	37.0-145	
PCB 1016	0.167	0.175	105	36.0-141	
(S) Decachlorobiphenyl			120	10.0-135	
(S) Tetrachloro-m-xylene			91.6	10.0-139	

7 Gl

8 Al

9 Sc

L1400099-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1400099-01 09/11/21 13:46 • (MS) R3703392-3 09/11/21 13:55 • (MSD) R3703392-4 09/11/21 14:04

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.183	ND	0.215	0.266	117	145	1	10.0-160			21.0	38
PCB 1016	0.183	ND	0.263	0.367	144	200	1	10.0-160		J5	32.8	37
(S) Decachlorobiphenyl					87.2	108		10.0-135				
(S) Tetrachloro-m-xylene					81.5	87.2		10.0-139				

Method Blank (MB)

(MB) R3702817-1 09/10/21 00:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
PCB 1260	U		0.173	0.500
PCB 1016	U		0.270	0.500
PCB 1221	U		0.270	0.500
PCB 1232	U		0.270	0.500
PCB 1242	U		0.270	0.500
PCB 1248	U		0.173	0.500
PCB 1254	U		0.173	0.500
(S) Decachlorobiphenyl	75.3			10.0-128
(S) Tetrachloro-m-xylene	92.7			10.0-127

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3702817-2 09/10/21 00:20 • (LCSD) R3702817-3 09/10/21 00:33

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
PCB 1260	2.50	2.52	2.18	101	87.2	42.0-131			14.5	25
PCB 1016	2.50	2.57	2.53	103	101	36.0-135			1.57	29
(S) Decachlorobiphenyl				84.5	26.9	10.0-128				
(S) Tetrachloro-m-xylene				96.8	95.0	10.0-127				

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3701306-1 09/05/21 17:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Anthracene	U		0.0190	0.0500
Acenaphthene	U		0.0190	0.0500
Acenaphthylene	U		0.0171	0.0500
Benzo(a)anthracene	U		0.0203	0.0500
Benzo(a)pyrene	U		0.0184	0.0500
Benzo(b)fluoranthene	U		0.0168	0.0500
Benzo(g,h,i)perylene	U		0.0184	0.0500
Benzo(k)fluoranthene	U		0.0202	0.0500
Chrysene	U		0.0179	0.0500
Dibenz(a,h)anthracene	U		0.0160	0.0500
Fluoranthene	U		0.0270	0.100
Fluorene	U		0.0169	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500
Naphthalene	U		0.0917	0.250
Phenanthrene	U		0.0180	0.0500
Pyrene	U		0.0169	0.0500
1-Methylnaphthalene	U		0.0687	0.250
2-Methylnaphthalene	U		0.0674	0.250
2-Chloronaphthalene	U		0.0682	0.250
(S) Nitrobenzene-d5	143			31.0-160
(S) 2-Fluorobiphenyl	128			48.0-148
(S) p-Terphenyl-d14	163	J1		37.0-146

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3701306-2 09/05/21 17:38 • (LCSD) R3701306-3 09/05/21 17:58

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	2.00	2.19	1.92	109	96.0	67.0-150			13.1	20
Acenaphthene	2.00	2.29	2.00	114	100	65.0-138			13.5	20
Acenaphthylene	2.00	2.33	2.03	117	102	66.0-140			13.8	20
Benzo(a)anthracene	2.00	2.15	1.88	108	94.0	61.0-140			13.4	20
Benzo(a)pyrene	2.00	2.20	1.94	110	97.0	60.0-143			12.6	20
Benzo(b)fluoranthene	2.00	2.38	2.09	119	105	58.0-141			13.0	20
Benzo(g,h,i)perylene	2.00	2.29	2.05	114	102	52.0-153			11.1	20
Benzo(k)fluoranthene	2.00	2.33	2.07	117	103	58.0-148			11.8	20
Chrysene	2.00	2.25	2.00	112	100	64.0-144			11.8	20
Dibenz(a,h)anthracene	2.00	2.26	1.99	113	99.5	52.0-155			12.7	20
Fluoranthene	2.00	2.24	1.99	112	99.5	69.0-153			11.8	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3701306-2 09/05/21 17:38 • (LCSD) R3701306-3 09/05/21 17:58

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Fluorene	2.00	2.24	1.95	112	97.5	64.0-136			13.8	20
Indeno(1,2,3-cd)pyrene	2.00	2.24	1.92	112	96.0	54.0-153			15.4	20
Naphthalene	2.00	2.22	1.91	111	95.5	61.0-137			15.0	20
Phenanthrene	2.00	2.22	1.97	111	98.5	62.0-137			11.9	20
Pyrene	2.00	2.32	2.06	116	103	60.0-142			11.9	20
1-Methylnaphthalene	2.00	2.23	1.91	111	95.5	66.0-142			15.5	20
2-Methylnaphthalene	2.00	2.18	1.87	109	93.5	62.0-136			15.3	20
2-Chloronaphthalene	2.00	2.23	1.92	111	96.0	64.0-140			14.9	20
<i>(S) Nitrobenzene-d5</i>				127	111	31.0-160				
<i>(S) 2-Fluorobiphenyl</i>				114	103	48.0-148				
<i>(S) p-Terphenyl-d14</i>				141	125	37.0-146				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3703703-2 09/11/21 09:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	86.8			14.0-149
(S) 2-Fluorobiphenyl	83.3			34.0-125
(S) p-Terphenyl-d14	110			23.0-120

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3703703-1 09/11/21 09:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0713	89.1	50.0-126	
Acenaphthene	0.0800	0.0700	87.5	50.0-120	
Acenaphthylene	0.0800	0.0763	95.4	50.0-120	
Benzo(a)anthracene	0.0800	0.0736	92.0	45.0-120	
Benzo(a)pyrene	0.0800	0.0642	80.3	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0717	89.6	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0735	91.9	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0721	90.1	49.0-125	
Chrysene	0.0800	0.0741	92.6	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0733	91.6	47.0-125	
Fluoranthene	0.0800	0.0867	108	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3703703-1 09/11/21 09:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0835	104	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0730	91.3	46.0-125	
Naphthalene	0.0800	0.0659	82.4	50.0-120	
Phenanthrene	0.0800	0.0745	93.1	47.0-120	
Pyrene	0.0800	0.0789	98.6	43.0-123	
1-Methylnaphthalene	0.0800	0.0663	82.9	51.0-121	
2-Methylnaphthalene	0.0800	0.0676	84.5	50.0-120	
2-Chloronaphthalene	0.0800	0.0799	99.9	50.0-120	
(S) Nitrobenzene-d5			81.7	14.0-149	
(S) 2-Fluorobiphenyl			113	34.0-125	
(S) p-Terphenyl-d14			127	23.0-120	J1

L1399694-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399694-16 09/11/21 13:56 • (MS) R3703703-3 09/11/21 14:16 • (MSD) R3703703-4 09/11/21 14:36

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0780	ND	0.0634	0.0675	78.2	83.6	1	10.0-145			6.20	30
Acenaphthene	0.0780	ND	0.0637	0.0732	78.6	90.7	1	14.0-127			13.8	27
Acenaphthylene	0.0780	ND	0.0579	0.0763	71.4	94.6	1	21.0-124		J3	27.4	25
Benzo(a)anthracene	0.0780	ND	0.0598	0.0646	73.7	80.2	1	10.0-139			7.85	30
Benzo(a)pyrene	0.0780	ND	0.0623	0.0661	76.8	82.0	1	10.0-141			5.99	31
Benzo(b)fluoranthene	0.0780	ND	0.0653	0.0703	80.5	87.1	1	10.0-140			7.36	36
Benzo(g,h,i)perylene	0.0780	ND	0.0694	0.0751	85.6	93.2	1	10.0-140			7.91	33
Benzo(k)fluoranthene	0.0780	ND	0.0640	0.0688	79.0	85.3	1	10.0-137			7.20	31
Chrysene	0.0780	ND	0.0648	0.0694	79.9	86.1	1	10.0-145			6.97	30
Dibenz(a,h)anthracene	0.0780	ND	0.0667	0.0721	82.3	89.4	1	10.0-132			7.78	31
Fluoranthene	0.0780	ND	0.0744	0.0772	91.8	95.7	1	10.0-153			3.70	33
Fluorene	0.0780	ND	0.0705	0.0763	86.9	94.6	1	11.0-130			7.93	29
Indeno(1,2,3-cd)pyrene	0.0780	ND	0.0620	0.0669	76.5	83.0	1	10.0-137			7.57	32
Naphthalene	0.0780	ND	0.0603	0.0643	74.4	79.8	1	10.0-135			6.51	27
Phenanthrene	0.0780	ND	0.0677	0.0701	83.5	86.9	1	10.0-144			3.47	31
Pyrene	0.0780	ND	0.0711	0.0682	87.7	84.5	1	10.0-148			4.18	35
1-Methylnaphthalene	0.0780	ND	0.0633	0.0707	78.1	87.6	1	10.0-142			11.0	28
2-Methylnaphthalene	0.0780	ND	0.0520	0.0613	64.1	76.0	1	10.0-137			16.5	28
2-Chloronaphthalene	0.0780	ND	0.0646	0.0726	79.7	90.1	1	29.0-120			11.7	24
(S) Nitrobenzene-d5					66.1	69.6		14.0-149				
(S) 2-Fluorobiphenyl					85.5	95.2		34.0-125				
(S) p-Terphenyl-d14					110	111		23.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

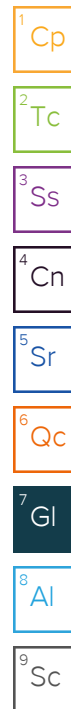
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
P	RPD between the primary and confirmatory analysis exceeded 40%.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

E021

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Container Preservative Type **

0 0 6 1 0 8 3 3 0

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:
Lab Sample # / Comments:

U1399574

Company: NewFields
 Address: 700 SW Higgins, Suite 15, Missoula, MT 59803
 Report To: wwelzenbach@newfields.com
 Copy To: sberkelhammer@newfields.com
 Customer Project Name/Number: Blue North Mill. 350.0515.001
 Phone: [] Site/Facility ID #: []
 Email: []
 Collected By (print): Sam Berkelhammer
 Collected By (signature): [Signature]
 Sample Disposal: [] Dispose as appropriate, [] Return, [] Archive, [x] Hold
 Billing Information: NewFields (attn: Dawn Violette)
 700 SW Higgins, Suite 15, Missoula, MT 59803
 Email To: dviolette@newfields.com
 Site Collection Info/Address: 283 Woodland Rd
 State: [] County/City: [] Time Zone Collected: [x] PT [] MT [] CT [] ET
 ID / Idaho County []
 Compliance Monitoring? [] Yes [] No
 DW PWS ID #: [] DW Location Code: []
 Immediately Packed on Ice: [X] Yes [] No
 Field Filtered (if applicable): [] Yes [X] No
 Analysis: []
 Rush: (Expedite Charges Apply) [] Same Day [] Next Day, [] 2 Day [] 3 Day, [] 4 Day [] 5 Day

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite) Start		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
BH-1 (10-11)	SL	G			8.30.21	1320		2	G
BH-1 (15-16)	SL	G			8.30.21	1420		3	G
BH-2 (15-16)	SL	G			8.30.21	1710		3	G
BH-3 (8-9)	SL	G			8.31.21	840		3	G
BH-3 (18-19)	SL	G			8.31.21	845		3	G
BH-4 (8-9)	SL	G			8.31.21	1130		3	G
BH-4 (25)	SL	G			8.31.21	1135		3	G
Trip Blank	WT	G							G
BH-ERB	WT	G			8.31.21	1100		13	G/P

Container Type: Plastic (P) or Glass (G)

TPH-Dx (2015 modified)
 RCRA 8 Metals, PAHs, PCBs
 8260 - Gasoline
 M6020RCRAB
 PAHs, M, LVI
 518011
 RR0LVI
 18260
 8082

Customer Remarks / Special Conditions / Possible Hazards: []
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used: []
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #: 5163 7716 9729 14760 / 4730
 Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: A20T
 Cooler 1 Temp Upon Receipt: 1.6
 Cooler 1 Therm Corr. Factor: 1.0
 Cooler 1 Corrected Temp: 1.0
 Comments:

Relinquished by/Company: (Signature) [Signature] NewFields Date/Time: 9.3.21 1200
 Relinquished by/Company: (Signature) [Signature] Date/Time: []
 Relinquished by/Company: (Signature) [Signature] Date/Time: []

Received by/Company: (Signature) [Signature] Date/Time: 9/14/21 9.30
 Received by/Company: (Signature) [Signature] Date/Time: []
 Received by/Company: (Signature) [Signature] Date/Time: []

MTJL LAB USE ONLY
 Table #: []
 Acctnum: []
 Template: []
 Prelogin: []
 PM: []
 PB: []
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): YES / NO
 Page: 1 of 1

9/4-L1399574-NCF NEWFIEMMT

R5

Time estimate: oh

Time spent: oh

Grouping date: 8 September 2

Members



Cole Medley (responsible)



Ayisha Raza

Due on ~~9 September 2021 5:00 PM~~ for target ~~Done~~ (Was done by Cole Medley at 8 September 2021 8:24 AM)

- Login Clarification needed
- Chain of custody is incomplete
- Please specify Metals requested
- Please specify TCLP requested
- Received additional samples not listed on COC
- Sample IDs on containers do not match IDs on COC
- Client did not "X" analysis
- Chain of Custody is missing
- If no COC: Received by: _____
- If no COC: Date/Time: _____
- If no COC: Temp./Cont.Rec./pH: _____
- If no COC: Carrier: _____
- If no COC: Tracking #: _____
- Client informed by call
- Client informed by Email
- Client informed by Voicemail
- Date/Time: _____
- PM initials: _____
- Client Contact: _____

Comments

Cole Medley

4 September 2021 3:47 PM

P865912/T192948

IDs:

MW-1 09/02/21 0930

MW-2 09/02/21 1050

MW-4 09/02/21 1630

MW-ERB 09/02/21 0715

Ayisha Raza

6 September 2021 11:45 AM

I just attached a COC that the client sent be for this project. Is this what you are missing?

Cole Medley

8 September 2021 8:24 AM

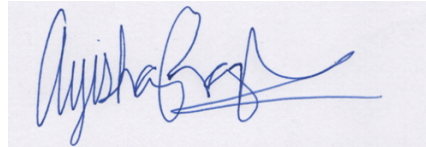
Done.

NewFields - Missoula MT

Sample Delivery Group: L1399674
Samples Received: 09/04/2021
Project Number: 350.0515.001
Description: Blue North Mill

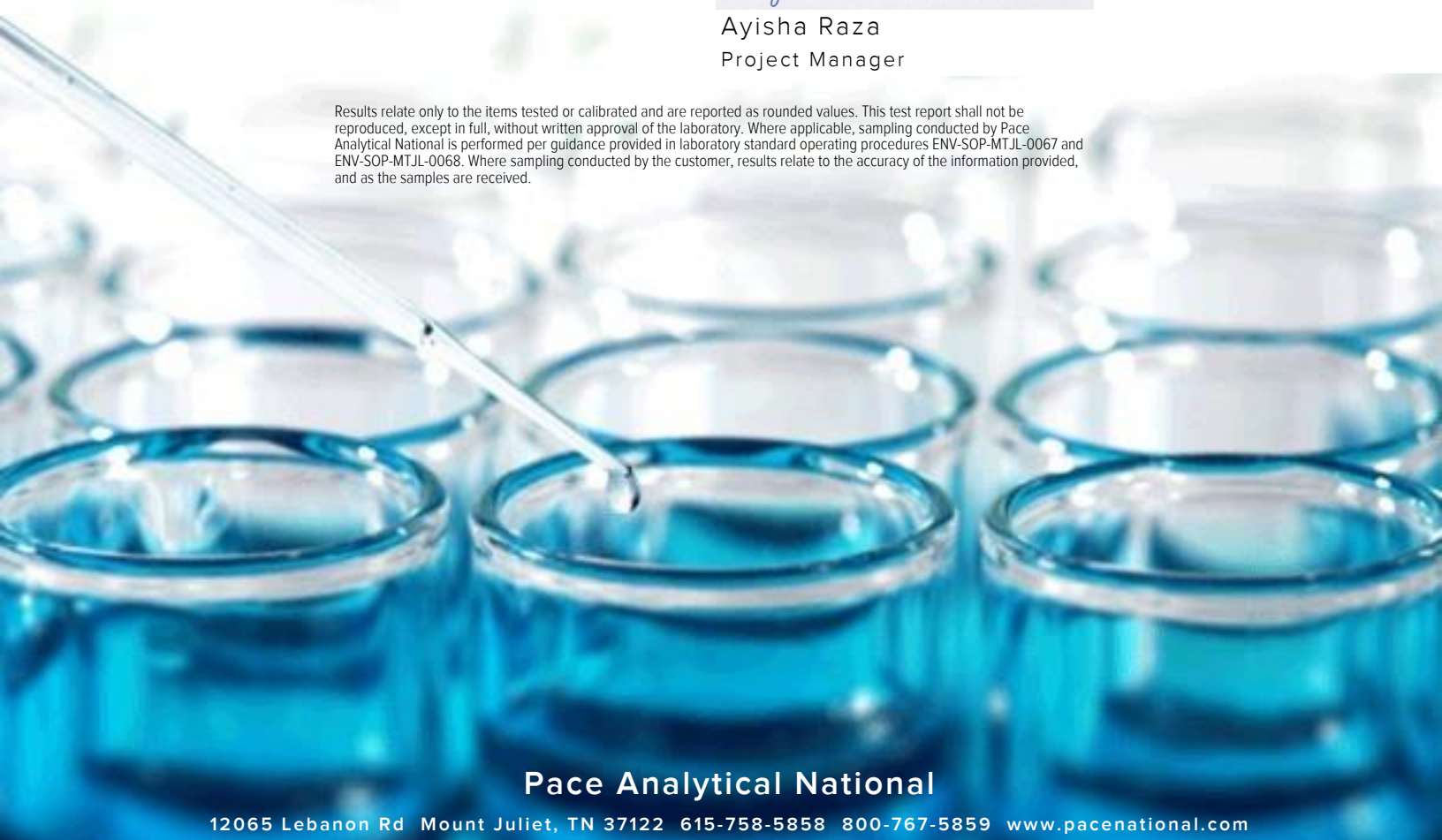
Report To: Wilhelm Welzebach
700 SW Higgins
Suite 15
Missoula, MT 59803

Entire Report Reviewed By:



Ayisha Raza
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

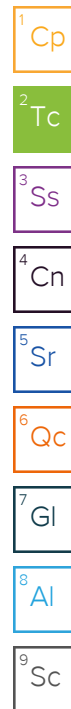


Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
MW-5 L1399674-01	6
MW-3 L1399674-02	9
MW-4 L1399674-03	12
MW-ERB L1399674-04	15
MW-1 L1399674-05	18
MW-2 L1399674-06	21
TRIP BLANK L1399674-07	24
Qc: Quality Control Summary	26
Mercury by Method 7470A	26
Metals (ICPMS) by Method 6020	27
Volatile Organic Compounds (GC/MS) by Method 8260B	28
EDB / DBCP by Method 8011	41
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	43
Polychlorinated Biphenyls (GC) by Method 8082	44
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	46
Gl: Glossary of Terms	50
Al: Accreditations & Locations	51
Sc: Sample Chain of Custody	52



SAMPLE SUMMARY

MW-5 L1399674-01 GW

Collected by: Sam B. Collected date/time: 09/01/21 12:00 Received date/time: 09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG1736543	1	09/09/21 09:09	09/09/21 19:27	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1736822	1	09/09/21 16:44	09/09/21 23:32	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738096	1	09/11/21 18:53	09/11/21 18:53	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1735981	1	09/07/21 09:00	09/08/21 23:00	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1738630	1	09/11/21 16:14	09/14/21 22:11	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1737626	1	09/09/21 18:06	09/10/21 03:58	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1735760	1	09/08/21 07:17	09/08/21 15:53	LEA	Mt. Juliet, TN



MW-3 L1399674-02 GW

Collected by: Sam B. Collected date/time: 09/01/21 14:30 Received date/time: 09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG1736543	1	09/09/21 09:09	09/09/21 19:29	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1736822	1	09/09/21 16:44	09/09/21 23:52	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738116	1	09/11/21 01:24	09/11/21 01:24	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1740545	1	09/15/21 13:26	09/15/21 13:26	JAH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1735981	1	09/07/21 09:00	09/08/21 23:12	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1738630	1	09/11/21 16:14	09/14/21 22:37	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1737626	1.04	09/09/21 18:06	09/10/21 04:11	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1735760	1	09/08/21 07:17	09/08/21 16:10	LEA	Mt. Juliet, TN

MW-4 L1399674-03 GW

Collected by: Sam B. Collected date/time: 09/01/21 16:30 Received date/time: 09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG1736543	1	09/09/21 09:09	09/09/21 19:31	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1736822	1	09/09/21 16:44	09/09/21 23:56	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738116	1	09/11/21 01:43	09/11/21 01:43	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1740545	1	09/15/21 13:48	09/15/21 13:48	JAH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1735981	1	09/07/21 09:00	09/08/21 23:25	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1738630	1	09/11/21 16:14	09/14/21 23:03	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1737626	1	09/09/21 18:06	09/10/21 04:23	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1735760	1	09/08/21 07:17	09/08/21 16:27	LEA	Mt. Juliet, TN

MW-ERB L1399674-04 GW

Collected by: Sam B. Collected date/time: 09/01/21 17:15 Received date/time: 09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG1736543	1	09/09/21 09:09	09/09/21 19:33	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1736822	1	09/09/21 16:44	09/09/21 23:59	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738116	1	09/11/21 02:03	09/11/21 02:03	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1740545	1	09/15/21 14:09	09/15/21 14:09	JAH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1738097	1	09/10/21 09:29	09/11/21 21:10	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1738630	1	09/11/21 16:14	09/14/21 23:29	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1737626	1.02	09/09/21 18:06	09/10/21 04:36	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1735760	1	09/08/21 07:17	09/08/21 16:45	LEA	Mt. Juliet, TN

SAMPLE SUMMARY

MW-1 L1399674-05 GW

Collected by: Sam B. Collected date/time: 09/02/21 09:30 Received date/time: 09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG1736543	1	09/09/21 09:09	09/09/21 19:36	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1736822	1	09/09/21 16:44	09/10/21 00:03	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738116	1	09/11/21 02:22	09/11/21 02:22	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1740545	1	09/15/21 16:39	09/15/21 16:39	BMB	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1738097	1	09/10/21 09:29	09/11/21 21:22	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1738630	1	09/11/21 16:14	09/14/21 23:55	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1737626	1.16	09/09/21 18:06	09/10/21 04:49	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1735762	1	09/08/21 16:12	09/09/21 01:30	AAT	Mt. Juliet, TN



MW-2 L1399674-06 GW

Collected by: Sam B. Collected date/time: 09/02/21 10:50 Received date/time: 09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG1736543	1	09/09/21 09:09	09/09/21 19:38	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1736822	1	09/09/21 16:44	09/10/21 00:06	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738116	5	09/11/21 04:17	09/11/21 04:17	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1738097	1	09/10/21 09:29	09/11/21 21:34	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1738630	1	09/11/21 16:14	09/15/21 00:21	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1738975	1	09/13/21 06:52	09/14/21 18:48	JMB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1735762	1	09/08/21 16:12	09/09/21 01:50	AAT	Mt. Juliet, TN

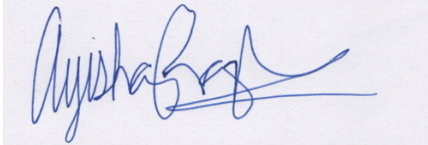
TRIP BLANK L1399674-07 GW

Collected by: Sam B. Collected date/time: 09/02/21 00:00 Received date/time: 09/04/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738116	1	09/10/21 22:32	09/10/21 22:32	JHH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Ayisha Raza
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	09/09/2021 19:27	WG1736543

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		2.00	1	09/09/2021 23:32	WG1736822
Barium	90.5		2.00	1	09/09/2021 23:32	WG1736822
Cadmium	ND		1.00	1	09/09/2021 23:32	WG1736822
Chromium	ND		2.00	1	09/09/2021 23:32	WG1736822
Lead	ND		2.00	1	09/09/2021 23:32	WG1736822
Selenium	ND		2.00	1	09/09/2021 23:32	WG1736822
Silver	ND		2.00	1	09/09/2021 23:32	WG1736822

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	09/11/2021 18:53	WG1738096
Acrolein	ND		50.0	1	09/11/2021 18:53	WG1738096
Acrylonitrile	ND		10.0	1	09/11/2021 18:53	WG1738096
Benzene	ND		1.00	1	09/11/2021 18:53	WG1738096
Bromobenzene	ND		1.00	1	09/11/2021 18:53	WG1738096
Bromodichloromethane	ND		1.00	1	09/11/2021 18:53	WG1738096
Bromoform	ND		1.00	1	09/11/2021 18:53	WG1738096
Bromomethane	ND		5.00	1	09/11/2021 18:53	WG1738096
n-Butylbenzene	ND		1.00	1	09/11/2021 18:53	WG1738096
sec-Butylbenzene	ND		1.00	1	09/11/2021 18:53	WG1738096
tert-Butylbenzene	ND		1.00	1	09/11/2021 18:53	WG1738096
Carbon tetrachloride	ND		1.00	1	09/11/2021 18:53	WG1738096
Chlorobenzene	ND		1.00	1	09/11/2021 18:53	WG1738096
Chlorodibromomethane	ND		1.00	1	09/11/2021 18:53	WG1738096
Chloroethane	ND		5.00	1	09/11/2021 18:53	WG1738096
Chloroform	ND		5.00	1	09/11/2021 18:53	WG1738096
Chloromethane	ND		2.50	1	09/11/2021 18:53	WG1738096
2-Chlorotoluene	ND		1.00	1	09/11/2021 18:53	WG1738096
4-Chlorotoluene	ND		1.00	1	09/11/2021 18:53	WG1738096
1,2-Dibromo-3-Chloropropane	ND		5.00	1	09/11/2021 18:53	WG1738096
1,2-Dibromoethane	ND		1.00	1	09/11/2021 18:53	WG1738096
Dibromomethane	ND		1.00	1	09/11/2021 18:53	WG1738096
1,2-Dichlorobenzene	ND		1.00	1	09/11/2021 18:53	WG1738096
1,3-Dichlorobenzene	ND		1.00	1	09/11/2021 18:53	WG1738096
1,4-Dichlorobenzene	ND		1.00	1	09/11/2021 18:53	WG1738096
Dichlorodifluoromethane	ND		5.00	1	09/11/2021 18:53	WG1738096
1,1-Dichloroethane	ND		1.00	1	09/11/2021 18:53	WG1738096
1,2-Dichloroethane	ND		1.00	1	09/11/2021 18:53	WG1738096
1,1-Dichloroethene	ND		1.00	1	09/11/2021 18:53	WG1738096
cis-1,2-Dichloroethene	ND		1.00	1	09/11/2021 18:53	WG1738096
trans-1,2-Dichloroethene	ND		1.00	1	09/11/2021 18:53	WG1738096
1,2-Dichloropropane	ND		1.00	1	09/11/2021 18:53	WG1738096
1,1-Dichloropropene	ND		1.00	1	09/11/2021 18:53	WG1738096
1,3-Dichloropropane	ND		1.00	1	09/11/2021 18:53	WG1738096
cis-1,3-Dichloropropene	ND		1.00	1	09/11/2021 18:53	WG1738096
trans-1,3-Dichloropropene	ND		1.00	1	09/11/2021 18:53	WG1738096
2,2-Dichloropropane	ND		1.00	1	09/11/2021 18:53	WG1738096
Di-isopropyl ether	ND		1.00	1	09/11/2021 18:53	WG1738096
Ethylbenzene	ND		1.00	1	09/11/2021 18:53	WG1738096

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND		1.00	1	09/11/2021 18:53	WG1738096
Isopropylbenzene	ND		1.00	1	09/11/2021 18:53	WG1738096
p-Isopropyltoluene	ND		1.00	1	09/11/2021 18:53	WG1738096
2-Butanone (MEK)	ND		10.0	1	09/11/2021 18:53	WG1738096
Methylene Chloride	ND		5.00	1	09/11/2021 18:53	WG1738096
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	09/11/2021 18:53	WG1738096
Methyl tert-butyl ether	ND		1.00	1	09/11/2021 18:53	WG1738096
Naphthalene	ND		5.00	1	09/11/2021 18:53	WG1738096
n-Propylbenzene	ND		1.00	1	09/11/2021 18:53	WG1738096
Styrene	ND		1.00	1	09/11/2021 18:53	WG1738096
1,1,1,2-Tetrachloroethane	ND		1.00	1	09/11/2021 18:53	WG1738096
1,1,2,2-Tetrachloroethane	ND		1.00	1	09/11/2021 18:53	WG1738096
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	09/11/2021 18:53	WG1738096
Tetrachloroethene	ND		1.00	1	09/11/2021 18:53	WG1738096
Toluene	ND		1.00	1	09/11/2021 18:53	WG1738096
1,2,3-Trichlorobenzene	ND		1.00	1	09/11/2021 18:53	WG1738096
1,2,4-Trichlorobenzene	ND		1.00	1	09/11/2021 18:53	WG1738096
1,1,1-Trichloroethane	ND		1.00	1	09/11/2021 18:53	WG1738096
1,1,2-Trichloroethane	ND		1.00	1	09/11/2021 18:53	WG1738096
Trichloroethene	ND	J3	1.00	1	09/11/2021 18:53	WG1738096
Trichlorofluoromethane	ND		5.00	1	09/11/2021 18:53	WG1738096
1,2,3-Trichloropropane	ND		2.50	1	09/11/2021 18:53	WG1738096
1,2,4-Trimethylbenzene	ND		1.00	1	09/11/2021 18:53	WG1738096
1,2,3-Trimethylbenzene	ND		1.00	1	09/11/2021 18:53	WG1738096
1,3,5-Trimethylbenzene	ND		1.00	1	09/11/2021 18:53	WG1738096
Vinyl chloride	ND		1.00	1	09/11/2021 18:53	WG1738096
Xylenes, Total	ND		3.00	1	09/11/2021 18:53	WG1738096
(S) Toluene-d8	96.9		80.0-120		09/11/2021 18:53	WG1738096
(S) 4-Bromofluorobenzene	89.7		77.0-126		09/11/2021 18:53	WG1738096
(S) 1,2-Dichloroethane-d4	96.9		70.0-130		09/11/2021 18:53	WG1738096

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	ND		0.0200	1	09/08/2021 23:00	WG1735981
1,2-Dibromo-3-Chloropropane	ND		0.0200	1	09/08/2021 23:00	WG1735981

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	337		100	1	09/14/2021 22:11	WG1738630
(S) o-Terphenyl	108		31.0-160		09/14/2021 22:11	WG1738630

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.500	1	09/10/2021 03:58	WG1737626
PCB 1221	ND		0.500	1	09/10/2021 03:58	WG1737626
PCB 1232	ND		0.500	1	09/10/2021 03:58	WG1737626
PCB 1242	ND		0.500	1	09/10/2021 03:58	WG1737626
PCB 1248	ND		0.500	1	09/10/2021 03:58	WG1737626
PCB 1254	ND		0.500	1	09/10/2021 03:58	WG1737626
PCB 1260	ND		0.500	1	09/10/2021 03:58	WG1737626
(S) Decachlorobiphenyl	65.6		10.0-128		09/10/2021 03:58	WG1737626
(S) Tetrachloro-m-xylene	89.0		10.0-127		09/10/2021 03:58	WG1737626

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0500	1	09/08/2021 15:53	WG1735760
Acenaphthene	ND		0.0500	1	09/08/2021 15:53	WG1735760
Acenaphthylene	ND		0.0500	1	09/08/2021 15:53	WG1735760
Benzo(a)anthracene	ND		0.0500	1	09/08/2021 15:53	WG1735760
Benzo(a)pyrene	ND		0.0500	1	09/08/2021 15:53	WG1735760
Benzo(b)fluoranthene	ND		0.0500	1	09/08/2021 15:53	WG1735760
Benzo(g,h,i)perylene	ND		0.0500	1	09/08/2021 15:53	WG1735760
Benzo(k)fluoranthene	ND		0.0500	1	09/08/2021 15:53	WG1735760
Chrysene	ND		0.0500	1	09/08/2021 15:53	WG1735760
Dibenz(a,h)anthracene	ND		0.0500	1	09/08/2021 15:53	WG1735760
Fluoranthene	ND		0.100	1	09/08/2021 15:53	WG1735760
Fluorene	ND		0.0500	1	09/08/2021 15:53	WG1735760
Indeno(1,2,3-cd)pyrene	ND		0.0500	1	09/08/2021 15:53	WG1735760
Naphthalene	ND		0.250	1	09/08/2021 15:53	WG1735760
Phenanthrene	ND		0.0500	1	09/08/2021 15:53	WG1735760
Pyrene	ND		0.0500	1	09/08/2021 15:53	WG1735760
1-Methylnaphthalene	0.939		0.250	1	09/08/2021 15:53	WG1735760
2-Methylnaphthalene	1.79		0.250	1	09/08/2021 15:53	WG1735760
2-Chloronaphthalene	ND		0.250	1	09/08/2021 15:53	WG1735760
(S) Nitrobenzene-d5	105		31.0-160		09/08/2021 15:53	WG1735760
(S) 2-Fluorobiphenyl	93.2		48.0-148		09/08/2021 15:53	WG1735760
(S) p-Terphenyl-d14	115		37.0-146		09/08/2021 15:53	WG1735760

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	09/09/2021 19:29	WG1736543

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		2.00	1	09/09/2021 23:52	WG1736822
Barium	145		2.00	1	09/09/2021 23:52	WG1736822
Cadmium	ND		1.00	1	09/09/2021 23:52	WG1736822
Chromium	ND		2.00	1	09/09/2021 23:52	WG1736822
Lead	ND		2.00	1	09/09/2021 23:52	WG1736822
Selenium	ND		2.00	1	09/09/2021 23:52	WG1736822
Silver	ND		2.00	1	09/09/2021 23:52	WG1736822

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	09/11/2021 01:24	WG1738116
Acrolein	ND		50.0	1	09/11/2021 01:24	WG1738116
Acrylonitrile	ND		10.0	1	09/11/2021 01:24	WG1738116
Benzene	ND		1.00	1	09/11/2021 01:24	WG1738116
Bromobenzene	ND		1.00	1	09/11/2021 01:24	WG1738116
Bromodichloromethane	ND		1.00	1	09/11/2021 01:24	WG1738116
Bromoform	ND		1.00	1	09/11/2021 01:24	WG1738116
Bromomethane	ND		5.00	1	09/11/2021 01:24	WG1738116
n-Butylbenzene	ND		1.00	1	09/11/2021 01:24	WG1738116
sec-Butylbenzene	ND		1.00	1	09/11/2021 01:24	WG1738116
tert-Butylbenzene	ND		1.00	1	09/11/2021 01:24	WG1738116
Carbon tetrachloride	ND		1.00	1	09/11/2021 01:24	WG1738116
Chlorobenzene	ND		1.00	1	09/11/2021 01:24	WG1738116
Chlorodibromomethane	ND		1.00	1	09/11/2021 01:24	WG1738116
Chloroethane	ND		5.00	1	09/11/2021 01:24	WG1738116
Chloroform	ND		5.00	1	09/11/2021 01:24	WG1738116
Chloromethane	ND		2.50	1	09/11/2021 01:24	WG1738116
2-Chlorotoluene	ND		1.00	1	09/11/2021 01:24	WG1738116
4-Chlorotoluene	ND		1.00	1	09/11/2021 01:24	WG1738116
1,2-Dibromo-3-Chloropropane	ND		5.00	1	09/11/2021 01:24	WG1738116
1,2-Dibromoethane	ND		1.00	1	09/11/2021 01:24	WG1738116
Dibromomethane	ND		1.00	1	09/11/2021 01:24	WG1738116
1,2-Dichlorobenzene	ND		1.00	1	09/11/2021 01:24	WG1738116
1,3-Dichlorobenzene	ND		1.00	1	09/11/2021 01:24	WG1738116
1,4-Dichlorobenzene	ND		1.00	1	09/11/2021 01:24	WG1738116
Dichlorodifluoromethane	ND		5.00	1	09/11/2021 01:24	WG1738116
1,1-Dichloroethane	ND		1.00	1	09/11/2021 01:24	WG1738116
1,2-Dichloroethane	ND		1.00	1	09/11/2021 01:24	WG1738116
1,1-Dichloroethene	ND		1.00	1	09/11/2021 01:24	WG1738116
cis-1,2-Dichloroethene	ND		1.00	1	09/11/2021 01:24	WG1738116
trans-1,2-Dichloroethene	ND		1.00	1	09/11/2021 01:24	WG1738116
1,2-Dichloropropane	ND		1.00	1	09/11/2021 01:24	WG1738116
1,1-Dichloropropene	ND		1.00	1	09/11/2021 01:24	WG1738116
1,3-Dichloropropane	ND		1.00	1	09/11/2021 01:24	WG1738116
cis-1,3-Dichloropropene	ND		1.00	1	09/11/2021 01:24	WG1738116
trans-1,3-Dichloropropene	ND		1.00	1	09/11/2021 01:24	WG1738116
2,2-Dichloropropane	ND		1.00	1	09/11/2021 01:24	WG1738116
Di-isopropyl ether	ND		1.00	1	09/11/2021 01:24	WG1738116
Ethylbenzene	ND		1.00	1	09/11/2021 01:24	WG1738116

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

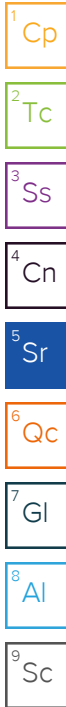
7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Hexachloro-1,3-butadiene	ND		1.00	1	09/11/2021 01:24	WG1738116
Isopropylbenzene	ND		1.00	1	09/11/2021 01:24	WG1738116
p-Isopropyltoluene	ND		1.00	1	09/11/2021 01:24	WG1738116
2-Butanone (MEK)	ND		10.0	1	09/11/2021 01:24	WG1738116
Methylene Chloride	ND		5.00	1	09/11/2021 01:24	WG1738116
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	09/11/2021 01:24	WG1738116
Methyl tert-butyl ether	ND		1.00	1	09/11/2021 01:24	WG1738116
Naphthalene	ND		5.00	1	09/11/2021 01:24	WG1738116
n-Propylbenzene	ND		1.00	1	09/11/2021 01:24	WG1738116
Styrene	ND		1.00	1	09/11/2021 01:24	WG1738116
1,1,1,2-Tetrachloroethane	ND		1.00	1	09/11/2021 01:24	WG1738116
1,1,2,2-Tetrachloroethane	ND		1.00	1	09/11/2021 01:24	WG1738116
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	09/15/2021 13:26	WG1740545
Tetrachloroethene	ND		1.00	1	09/15/2021 13:26	WG1740545
Toluene	ND		1.00	1	09/11/2021 01:24	WG1738116
1,2,3-Trichlorobenzene	ND		1.00	1	09/11/2021 01:24	WG1738116
1,2,4-Trichlorobenzene	ND		1.00	1	09/11/2021 01:24	WG1738116
1,1,1-Trichloroethane	ND		1.00	1	09/11/2021 01:24	WG1738116
1,1,2-Trichloroethane	ND		1.00	1	09/11/2021 01:24	WG1738116
Trichloroethene	ND		1.00	1	09/15/2021 13:26	WG1740545
Trichlorofluoromethane	ND		5.00	1	09/11/2021 01:24	WG1738116
1,2,3-Trichloropropane	ND		2.50	1	09/11/2021 01:24	WG1738116
1,2,4-Trimethylbenzene	ND		1.00	1	09/11/2021 01:24	WG1738116
1,2,3-Trimethylbenzene	ND		1.00	1	09/11/2021 01:24	WG1738116
1,3,5-Trimethylbenzene	ND		1.00	1	09/11/2021 01:24	WG1738116
Vinyl chloride	ND		1.00	1	09/11/2021 01:24	WG1738116
Xylenes, Total	ND		3.00	1	09/11/2021 01:24	WG1738116
(S) Toluene-d8	97.3		80.0-120		09/11/2021 01:24	WG1738116
(S) Toluene-d8	90.8		80.0-120		09/15/2021 13:26	WG1740545
(S) 4-Bromofluorobenzene	95.0		77.0-126		09/11/2021 01:24	WG1738116
(S) 4-Bromofluorobenzene	90.1		77.0-126		09/15/2021 13:26	WG1740545
(S) 1,2-Dichloroethane-d4	108		70.0-130		09/11/2021 01:24	WG1738116
(S) 1,2-Dichloroethane-d4	106		70.0-130		09/15/2021 13:26	WG1740545



EDB / DBCP by Method 8011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylene Dibromide	ND		0.0200	1	09/08/2021 23:12	WG1735981
1,2-Dibromo-3-Chloropropane	ND		0.0200	1	09/08/2021 23:12	WG1735981

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) High Fraction	432		100	1	09/14/2021 22:37	WG1738630
(S) o-Terphenyl	109		31.0-160		09/14/2021 22:37	WG1738630

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
PCB 1016	ND		0.520	1.04	09/10/2021 04:11	WG1737626
PCB 1221	ND		0.520	1.04	09/10/2021 04:11	WG1737626
PCB 1232	ND		0.520	1.04	09/10/2021 04:11	WG1737626
PCB 1242	ND		0.520	1.04	09/10/2021 04:11	WG1737626
PCB 1248	ND		0.520	1.04	09/10/2021 04:11	WG1737626
PCB 1254	ND		0.520	1.04	09/10/2021 04:11	WG1737626

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
PCB 1260	ND		0.520	1.04	09/10/2021 04:11	WG1737626
(S) Decachlorobiphenyl	67.4		10.0-128		09/10/2021 04:11	WG1737626
(S) Tetrachloro-m-xylene	95.7		10.0-127		09/10/2021 04:11	WG1737626

Sample Narrative:

L1399674-02 WG1737626: Dilution due to sample volume.

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Anthracene	ND		0.0500	1	09/08/2021 16:10	WG1735760
Acenaphthene	ND		0.0500	1	09/08/2021 16:10	WG1735760
Acenaphthylene	ND		0.0500	1	09/08/2021 16:10	WG1735760
Benzo(a)anthracene	ND		0.0500	1	09/08/2021 16:10	WG1735760
Benzo(a)pyrene	ND		0.0500	1	09/08/2021 16:10	WG1735760
Benzo(b)fluoranthene	ND		0.0500	1	09/08/2021 16:10	WG1735760
Benzo(g,h,i)perylene	ND		0.0500	1	09/08/2021 16:10	WG1735760
Benzo(k)fluoranthene	ND		0.0500	1	09/08/2021 16:10	WG1735760
Chrysene	ND		0.0500	1	09/08/2021 16:10	WG1735760
Dibenz(a,h)anthracene	ND		0.0500	1	09/08/2021 16:10	WG1735760
Fluoranthene	ND		0.100	1	09/08/2021 16:10	WG1735760
Fluorene	ND		0.0500	1	09/08/2021 16:10	WG1735760
Indeno(1,2,3-cd)pyrene	ND		0.0500	1	09/08/2021 16:10	WG1735760
Naphthalene	ND		0.250	1	09/08/2021 16:10	WG1735760
Phenanthrene	ND		0.0500	1	09/08/2021 16:10	WG1735760
Pyrene	ND		0.0500	1	09/08/2021 16:10	WG1735760
1-Methylnaphthalene	0.430		0.250	1	09/08/2021 16:10	WG1735760
2-Methylnaphthalene	0.851		0.250	1	09/08/2021 16:10	WG1735760
2-Chloronaphthalene	ND		0.250	1	09/08/2021 16:10	WG1735760
(S) Nitrobenzene-d5	108		31.0-160		09/08/2021 16:10	WG1735760
(S) 2-Fluorobiphenyl	93.7		48.0-148		09/08/2021 16:10	WG1735760
(S) p-Terphenyl-d14	114		37.0-146		09/08/2021 16:10	WG1735760

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	09/09/2021 19:31	WG1736543

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		2.00	1	09/09/2021 23:56	WG1736822
Barium	93.3		2.00	1	09/09/2021 23:56	WG1736822
Cadmium	ND		1.00	1	09/09/2021 23:56	WG1736822
Chromium	ND		2.00	1	09/09/2021 23:56	WG1736822
Lead	ND		2.00	1	09/09/2021 23:56	WG1736822
Selenium	ND		2.00	1	09/09/2021 23:56	WG1736822
Silver	ND		2.00	1	09/09/2021 23:56	WG1736822

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	09/11/2021 01:43	WG1738116
Acrolein	ND		50.0	1	09/11/2021 01:43	WG1738116
Acrylonitrile	ND		10.0	1	09/11/2021 01:43	WG1738116
Benzene	ND		1.00	1	09/11/2021 01:43	WG1738116
Bromobenzene	ND		1.00	1	09/11/2021 01:43	WG1738116
Bromodichloromethane	ND		1.00	1	09/11/2021 01:43	WG1738116
Bromoform	ND		1.00	1	09/11/2021 01:43	WG1738116
Bromomethane	ND		5.00	1	09/11/2021 01:43	WG1738116
n-Butylbenzene	ND		1.00	1	09/11/2021 01:43	WG1738116
sec-Butylbenzene	ND		1.00	1	09/11/2021 01:43	WG1738116
tert-Butylbenzene	ND		1.00	1	09/11/2021 01:43	WG1738116
Carbon tetrachloride	ND		1.00	1	09/11/2021 01:43	WG1738116
Chlorobenzene	ND		1.00	1	09/11/2021 01:43	WG1738116
Chlorodibromomethane	ND		1.00	1	09/11/2021 01:43	WG1738116
Chloroethane	ND		5.00	1	09/11/2021 01:43	WG1738116
Chloroform	ND		5.00	1	09/11/2021 01:43	WG1738116
Chloromethane	ND		2.50	1	09/11/2021 01:43	WG1738116
2-Chlorotoluene	ND		1.00	1	09/11/2021 01:43	WG1738116
4-Chlorotoluene	ND		1.00	1	09/11/2021 01:43	WG1738116
1,2-Dibromo-3-Chloropropane	ND		5.00	1	09/11/2021 01:43	WG1738116
1,2-Dibromoethane	ND		1.00	1	09/11/2021 01:43	WG1738116
Dibromomethane	ND		1.00	1	09/11/2021 01:43	WG1738116
1,2-Dichlorobenzene	ND		1.00	1	09/11/2021 01:43	WG1738116
1,3-Dichlorobenzene	ND		1.00	1	09/11/2021 01:43	WG1738116
1,4-Dichlorobenzene	ND		1.00	1	09/11/2021 01:43	WG1738116
Dichlorodifluoromethane	ND		5.00	1	09/11/2021 01:43	WG1738116
1,1-Dichloroethane	ND		1.00	1	09/11/2021 01:43	WG1738116
1,2-Dichloroethane	ND		1.00	1	09/11/2021 01:43	WG1738116
1,1-Dichloroethene	ND		1.00	1	09/11/2021 01:43	WG1738116
cis-1,2-Dichloroethene	ND		1.00	1	09/11/2021 01:43	WG1738116
trans-1,2-Dichloroethene	ND		1.00	1	09/11/2021 01:43	WG1738116
1,2-Dichloropropane	ND		1.00	1	09/11/2021 01:43	WG1738116
1,1-Dichloropropene	ND		1.00	1	09/11/2021 01:43	WG1738116
1,3-Dichloropropane	ND		1.00	1	09/11/2021 01:43	WG1738116
cis-1,3-Dichloropropene	ND		1.00	1	09/11/2021 01:43	WG1738116
trans-1,3-Dichloropropene	ND		1.00	1	09/11/2021 01:43	WG1738116
2,2-Dichloropropane	ND		1.00	1	09/11/2021 01:43	WG1738116
Di-isopropyl ether	ND		1.00	1	09/11/2021 01:43	WG1738116
Ethylbenzene	ND		1.00	1	09/11/2021 01:43	WG1738116

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Hexachloro-1,3-butadiene	ND		1.00	1	09/11/2021 01:43	WG1738116
Isopropylbenzene	ND		1.00	1	09/11/2021 01:43	WG1738116
p-Isopropyltoluene	ND		1.00	1	09/11/2021 01:43	WG1738116
2-Butanone (MEK)	ND		10.0	1	09/11/2021 01:43	WG1738116
Methylene Chloride	ND		5.00	1	09/11/2021 01:43	WG1738116
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	09/11/2021 01:43	WG1738116
Methyl tert-butyl ether	ND		1.00	1	09/11/2021 01:43	WG1738116
Naphthalene	ND		5.00	1	09/11/2021 01:43	WG1738116
n-Propylbenzene	ND		1.00	1	09/11/2021 01:43	WG1738116
Styrene	ND		1.00	1	09/11/2021 01:43	WG1738116
1,1,1,2-Tetrachloroethane	ND		1.00	1	09/11/2021 01:43	WG1738116
1,1,2,2-Tetrachloroethane	ND		1.00	1	09/11/2021 01:43	WG1738116
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	09/11/2021 01:43	WG1738116
Tetrachloroethene	ND		1.00	1	09/11/2021 01:43	WG1738116
Toluene	ND		1.00	1	09/11/2021 01:43	WG1738116
1,2,3-Trichlorobenzene	ND		1.00	1	09/11/2021 01:43	WG1738116
1,2,4-Trichlorobenzene	ND		1.00	1	09/11/2021 01:43	WG1738116
1,1,1-Trichloroethane	ND		1.00	1	09/11/2021 01:43	WG1738116
1,1,2-Trichloroethane	ND		1.00	1	09/11/2021 01:43	WG1738116
Trichloroethene	ND		1.00	1	09/15/2021 13:48	WG1740545
Trichlorofluoromethane	ND		5.00	1	09/11/2021 01:43	WG1738116
1,2,3-Trichloropropane	ND		2.50	1	09/11/2021 01:43	WG1738116
1,2,4-Trimethylbenzene	ND		1.00	1	09/11/2021 01:43	WG1738116
1,2,3-Trimethylbenzene	ND		1.00	1	09/11/2021 01:43	WG1738116
1,3,5-Trimethylbenzene	ND		1.00	1	09/11/2021 01:43	WG1738116
Vinyl chloride	ND		1.00	1	09/11/2021 01:43	WG1738116
Xylenes, Total	ND		3.00	1	09/11/2021 01:43	WG1738116
(S) Toluene-d8	98.8		80.0-120		09/11/2021 01:43	WG1738116
(S) Toluene-d8	90.3		80.0-120		09/15/2021 13:48	WG1740545
(S) 4-Bromofluorobenzene	94.3		77.0-126		09/11/2021 01:43	WG1738116
(S) 4-Bromofluorobenzene	90.8		77.0-126		09/15/2021 13:48	WG1740545
(S) 1,2-Dichloroethane-d4	106		70.0-130		09/11/2021 01:43	WG1738116
(S) 1,2-Dichloroethane-d4	102		70.0-130		09/15/2021 13:48	WG1740545

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylene Dibromide	ND		0.0200	1	09/08/2021 23:25	WG1735981
1,2-Dibromo-3-Chloropropane	ND		0.0200	1	09/08/2021 23:25	WG1735981

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) High Fraction	357		100	1	09/14/2021 23:03	WG1738630
(S) o-Terphenyl	109		31.0-160		09/14/2021 23:03	WG1738630

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
PCB 1016	ND		0.500	1	09/10/2021 04:23	WG1737626
PCB 1221	ND		0.500	1	09/10/2021 04:23	WG1737626
PCB 1232	ND		0.500	1	09/10/2021 04:23	WG1737626
PCB 1242	ND		0.500	1	09/10/2021 04:23	WG1737626
PCB 1248	ND		0.500	1	09/10/2021 04:23	WG1737626
PCB 1254	ND		0.500	1	09/10/2021 04:23	WG1737626

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
PCB 1260	ND		0.500	1	09/10/2021 04:23	WG1737626
(S) Decachlorobiphenyl	47.4		10.0-128		09/10/2021 04:23	WG1737626
(S) Tetrachloro-m-xylene	79.5		10.0-127		09/10/2021 04:23	WG1737626

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0500	1	09/08/2021 16:27	WG1735760
Acenaphthene	ND		0.0500	1	09/08/2021 16:27	WG1735760
Acenaphthylene	ND		0.0500	1	09/08/2021 16:27	WG1735760
Benzo(a)anthracene	ND		0.0500	1	09/08/2021 16:27	WG1735760
Benzo(a)pyrene	ND		0.0500	1	09/08/2021 16:27	WG1735760
Benzo(b)fluoranthene	ND		0.0500	1	09/08/2021 16:27	WG1735760
Benzo(g,h,i)perylene	ND		0.0500	1	09/08/2021 16:27	WG1735760
Benzo(k)fluoranthene	ND		0.0500	1	09/08/2021 16:27	WG1735760
Chrysene	ND		0.0500	1	09/08/2021 16:27	WG1735760
Dibenz(a,h)anthracene	ND		0.0500	1	09/08/2021 16:27	WG1735760
Fluoranthene	ND		0.100	1	09/08/2021 16:27	WG1735760
Fluorene	ND		0.0500	1	09/08/2021 16:27	WG1735760
Indeno(1,2,3-cd)pyrene	ND		0.0500	1	09/08/2021 16:27	WG1735760
Naphthalene	ND		0.250	1	09/08/2021 16:27	WG1735760
Phenanthrene	ND		0.0500	1	09/08/2021 16:27	WG1735760
Pyrene	ND		0.0500	1	09/08/2021 16:27	WG1735760
1-Methylnaphthalene	0.914		0.250	1	09/08/2021 16:27	WG1735760
2-Methylnaphthalene	1.75		0.250	1	09/08/2021 16:27	WG1735760
2-Chloronaphthalene	ND		0.250	1	09/08/2021 16:27	WG1735760
(S) Nitrobenzene-d5	105		31.0-160		09/08/2021 16:27	WG1735760
(S) 2-Fluorobiphenyl	94.2		48.0-148		09/08/2021 16:27	WG1735760
(S) p-Terphenyl-d14	116		37.0-146		09/08/2021 16:27	WG1735760

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	09/09/2021 19:33	WG1736543

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		2.00	1	09/09/2021 23:59	WG1736822
Barium	ND		2.00	1	09/09/2021 23:59	WG1736822
Cadmium	ND		1.00	1	09/09/2021 23:59	WG1736822
Chromium	ND		2.00	1	09/09/2021 23:59	WG1736822
Lead	ND		2.00	1	09/09/2021 23:59	WG1736822
Selenium	ND		2.00	1	09/09/2021 23:59	WG1736822
Silver	ND		2.00	1	09/09/2021 23:59	WG1736822

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	09/11/2021 02:03	WG1738116
Acrolein	ND		50.0	1	09/11/2021 02:03	WG1738116
Acrylonitrile	ND		10.0	1	09/11/2021 02:03	WG1738116
Benzene	ND		1.00	1	09/11/2021 02:03	WG1738116
Bromobenzene	ND		1.00	1	09/11/2021 02:03	WG1738116
Bromodichloromethane	ND		1.00	1	09/11/2021 02:03	WG1738116
Bromoform	ND		1.00	1	09/11/2021 02:03	WG1738116
Bromomethane	ND		5.00	1	09/11/2021 02:03	WG1738116
n-Butylbenzene	ND		1.00	1	09/11/2021 02:03	WG1738116
sec-Butylbenzene	ND		1.00	1	09/11/2021 02:03	WG1738116
tert-Butylbenzene	ND		1.00	1	09/11/2021 02:03	WG1738116
Carbon tetrachloride	ND		1.00	1	09/11/2021 02:03	WG1738116
Chlorobenzene	ND		1.00	1	09/11/2021 02:03	WG1738116
Chlorodibromomethane	ND		1.00	1	09/11/2021 02:03	WG1738116
Chloroethane	ND		5.00	1	09/11/2021 02:03	WG1738116
Chloroform	ND		5.00	1	09/11/2021 02:03	WG1738116
Chloromethane	ND		2.50	1	09/11/2021 02:03	WG1738116
2-Chlorotoluene	ND		1.00	1	09/11/2021 02:03	WG1738116
4-Chlorotoluene	ND		1.00	1	09/11/2021 02:03	WG1738116
1,2-Dibromo-3-Chloropropane	ND		5.00	1	09/11/2021 02:03	WG1738116
1,2-Dibromoethane	ND		1.00	1	09/11/2021 02:03	WG1738116
Dibromomethane	ND		1.00	1	09/11/2021 02:03	WG1738116
1,2-Dichlorobenzene	ND		1.00	1	09/11/2021 02:03	WG1738116
1,3-Dichlorobenzene	ND		1.00	1	09/11/2021 02:03	WG1738116
1,4-Dichlorobenzene	ND		1.00	1	09/11/2021 02:03	WG1738116
Dichlorodifluoromethane	ND		5.00	1	09/11/2021 02:03	WG1738116
1,1-Dichloroethane	ND		1.00	1	09/11/2021 02:03	WG1738116
1,2-Dichloroethane	ND		1.00	1	09/11/2021 02:03	WG1738116
1,1-Dichloroethene	ND		1.00	1	09/11/2021 02:03	WG1738116
cis-1,2-Dichloroethene	ND		1.00	1	09/11/2021 02:03	WG1738116
trans-1,2-Dichloroethene	ND		1.00	1	09/11/2021 02:03	WG1738116
1,2-Dichloropropane	ND		1.00	1	09/11/2021 02:03	WG1738116
1,1-Dichloropropene	ND		1.00	1	09/11/2021 02:03	WG1738116
1,3-Dichloropropane	ND		1.00	1	09/11/2021 02:03	WG1738116
cis-1,3-Dichloropropene	ND		1.00	1	09/11/2021 02:03	WG1738116
trans-1,3-Dichloropropene	ND		1.00	1	09/11/2021 02:03	WG1738116
2,2-Dichloropropane	ND		1.00	1	09/11/2021 02:03	WG1738116
Di-isopropyl ether	ND		1.00	1	09/11/2021 02:03	WG1738116
Ethylbenzene	ND		1.00	1	09/11/2021 02:03	WG1738116

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Hexachloro-1,3-butadiene	ND		1.00	1	09/11/2021 02:03	WG1738116
Isopropylbenzene	ND		1.00	1	09/11/2021 02:03	WG1738116
p-Isopropyltoluene	ND		1.00	1	09/11/2021 02:03	WG1738116
2-Butanone (MEK)	ND		10.0	1	09/11/2021 02:03	WG1738116
Methylene Chloride	ND		5.00	1	09/11/2021 02:03	WG1738116
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	09/11/2021 02:03	WG1738116
Methyl tert-butyl ether	ND		1.00	1	09/11/2021 02:03	WG1738116
Naphthalene	ND		5.00	1	09/11/2021 02:03	WG1738116
n-Propylbenzene	ND		1.00	1	09/11/2021 02:03	WG1738116
Styrene	ND		1.00	1	09/11/2021 02:03	WG1738116
1,1,1,2-Tetrachloroethane	ND		1.00	1	09/11/2021 02:03	WG1738116
1,1,2,2-Tetrachloroethane	ND		1.00	1	09/11/2021 02:03	WG1738116
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	09/11/2021 02:03	WG1738116
Tetrachloroethene	ND		1.00	1	09/11/2021 02:03	WG1738116
Toluene	ND		1.00	1	09/11/2021 02:03	WG1738116
1,2,3-Trichlorobenzene	ND		1.00	1	09/11/2021 02:03	WG1738116
1,2,4-Trichlorobenzene	ND		1.00	1	09/11/2021 02:03	WG1738116
1,1,1-Trichloroethane	ND		1.00	1	09/11/2021 02:03	WG1738116
1,1,2-Trichloroethane	ND		1.00	1	09/11/2021 02:03	WG1738116
Trichloroethene	ND		1.00	1	09/15/2021 14:09	WG1740545
Trichlorofluoromethane	ND		5.00	1	09/11/2021 02:03	WG1738116
1,2,3-Trichloropropane	ND		2.50	1	09/11/2021 02:03	WG1738116
1,2,4-Trimethylbenzene	ND		1.00	1	09/11/2021 02:03	WG1738116
1,2,3-Trimethylbenzene	ND		1.00	1	09/11/2021 02:03	WG1738116
1,3,5-Trimethylbenzene	ND		1.00	1	09/11/2021 02:03	WG1738116
Vinyl chloride	ND		1.00	1	09/11/2021 02:03	WG1738116
Xylenes, Total	ND		3.00	1	09/11/2021 02:03	WG1738116
(S) Toluene-d8	97.6		80.0-120		09/11/2021 02:03	WG1738116
(S) Toluene-d8	92.4		80.0-120		09/15/2021 14:09	WG1740545
(S) 4-Bromofluorobenzene	103		77.0-126		09/11/2021 02:03	WG1738116
(S) 4-Bromofluorobenzene	94.3		77.0-126		09/15/2021 14:09	WG1740545
(S) 1,2-Dichloroethane-d4	107		70.0-130		09/11/2021 02:03	WG1738116
(S) 1,2-Dichloroethane-d4	99.8		70.0-130		09/15/2021 14:09	WG1740545

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylene Dibromide	ND		0.0200	1	09/11/2021 21:10	WG1738097
1,2-Dibromo-3-Chloropropane	ND		0.0200	1	09/11/2021 21:10	WG1738097

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) High Fraction	ND		100	1	09/14/2021 23:29	WG1738630
(S) o-Terphenyl	108		31.0-160		09/14/2021 23:29	WG1738630

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
PCB 1016	ND		0.510	1.02	09/10/2021 04:36	WG1737626
PCB 1221	ND		0.510	1.02	09/10/2021 04:36	WG1737626
PCB 1232	ND		0.510	1.02	09/10/2021 04:36	WG1737626
PCB 1242	ND		0.510	1.02	09/10/2021 04:36	WG1737626
PCB 1248	ND		0.510	1.02	09/10/2021 04:36	WG1737626
PCB 1254	ND		0.510	1.02	09/10/2021 04:36	WG1737626

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
PCB 1260	ND		0.510	1.02	09/10/2021 04:36	WG1737626
(S) Decachlorobiphenyl	39.9		10.0-128		09/10/2021 04:36	WG1737626
(S) Tetrachloro-m-xylene	89.2		10.0-127		09/10/2021 04:36	WG1737626

Sample Narrative:

L1399674-04 WG1737626: Dilution due to sample volume.

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0500	1	09/08/2021 16:45	WG1735760
Acenaphthene	ND		0.0500	1	09/08/2021 16:45	WG1735760
Acenaphthylene	ND		0.0500	1	09/08/2021 16:45	WG1735760
Benzo(a)anthracene	ND		0.0500	1	09/08/2021 16:45	WG1735760
Benzo(a)pyrene	ND		0.0500	1	09/08/2021 16:45	WG1735760
Benzo(b)fluoranthene	ND		0.0500	1	09/08/2021 16:45	WG1735760
Benzo(g,h,i)perylene	ND		0.0500	1	09/08/2021 16:45	WG1735760
Benzo(k)fluoranthene	ND		0.0500	1	09/08/2021 16:45	WG1735760
Chrysene	ND		0.0500	1	09/08/2021 16:45	WG1735760
Dibenz(a,h)anthracene	ND		0.0500	1	09/08/2021 16:45	WG1735760
Fluoranthene	ND		0.100	1	09/08/2021 16:45	WG1735760
Fluorene	ND		0.0500	1	09/08/2021 16:45	WG1735760
Indeno(1,2,3-cd)pyrene	ND		0.0500	1	09/08/2021 16:45	WG1735760
Naphthalene	ND		0.250	1	09/08/2021 16:45	WG1735760
Phenanthrene	ND		0.0500	1	09/08/2021 16:45	WG1735760
Pyrene	ND		0.0500	1	09/08/2021 16:45	WG1735760
1-Methylnaphthalene	ND		0.250	1	09/08/2021 16:45	WG1735760
2-Methylnaphthalene	ND		0.250	1	09/08/2021 16:45	WG1735760
2-Chloronaphthalene	ND		0.250	1	09/08/2021 16:45	WG1735760
(S) Nitrobenzene-d5	107		31.0-160		09/08/2021 16:45	WG1735760
(S) 2-Fluorobiphenyl	92.1		48.0-148		09/08/2021 16:45	WG1735760
(S) p-Terphenyl-d14	116		37.0-146		09/08/2021 16:45	WG1735760

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	09/09/2021 19:36	WG1736543

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	5.89		2.00	1	09/10/2021 00:03	WG1736822
Barium	257		2.00	1	09/10/2021 00:03	WG1736822
Cadmium	ND		1.00	1	09/10/2021 00:03	WG1736822
Chromium	2.23		2.00	1	09/10/2021 00:03	WG1736822
Lead	ND		2.00	1	09/10/2021 00:03	WG1736822
Selenium	ND		2.00	1	09/10/2021 00:03	WG1736822
Silver	ND		2.00	1	09/10/2021 00:03	WG1736822

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	09/11/2021 02:22	WG1738116
Acrolein	ND		50.0	1	09/11/2021 02:22	WG1738116
Acrylonitrile	ND		10.0	1	09/11/2021 02:22	WG1738116
Benzene	ND		1.00	1	09/11/2021 02:22	WG1738116
Bromobenzene	ND		1.00	1	09/11/2021 02:22	WG1738116
Bromodichloromethane	ND		1.00	1	09/11/2021 02:22	WG1738116
Bromoform	ND		1.00	1	09/11/2021 02:22	WG1738116
Bromomethane	ND		5.00	1	09/11/2021 02:22	WG1738116
n-Butylbenzene	ND		1.00	1	09/11/2021 02:22	WG1738116
sec-Butylbenzene	ND		1.00	1	09/11/2021 02:22	WG1738116
tert-Butylbenzene	ND		1.00	1	09/11/2021 02:22	WG1738116
Carbon tetrachloride	ND		1.00	1	09/11/2021 02:22	WG1738116
Chlorobenzene	ND		1.00	1	09/11/2021 02:22	WG1738116
Chlorodibromomethane	ND		1.00	1	09/11/2021 02:22	WG1738116
Chloroethane	ND		5.00	1	09/11/2021 02:22	WG1738116
Chloroform	ND		5.00	1	09/11/2021 02:22	WG1738116
Chloromethane	ND		2.50	1	09/11/2021 02:22	WG1738116
2-Chlorotoluene	ND		1.00	1	09/11/2021 02:22	WG1738116
4-Chlorotoluene	ND		1.00	1	09/11/2021 02:22	WG1738116
1,2-Dibromo-3-Chloropropane	ND		5.00	1	09/11/2021 02:22	WG1738116
1,2-Dibromoethane	ND		1.00	1	09/11/2021 02:22	WG1738116
Dibromomethane	ND		1.00	1	09/11/2021 02:22	WG1738116
1,2-Dichlorobenzene	ND		1.00	1	09/11/2021 02:22	WG1738116
1,3-Dichlorobenzene	ND		1.00	1	09/11/2021 02:22	WG1738116
1,4-Dichlorobenzene	ND		1.00	1	09/11/2021 02:22	WG1738116
Dichlorodifluoromethane	ND		5.00	1	09/11/2021 02:22	WG1738116
1,1-Dichloroethane	ND		1.00	1	09/11/2021 02:22	WG1738116
1,2-Dichloroethane	ND		1.00	1	09/11/2021 02:22	WG1738116
1,1-Dichloroethene	ND		1.00	1	09/11/2021 02:22	WG1738116
cis-1,2-Dichloroethene	ND		1.00	1	09/11/2021 02:22	WG1738116
trans-1,2-Dichloroethene	ND		1.00	1	09/11/2021 02:22	WG1738116
1,2-Dichloropropane	ND		1.00	1	09/11/2021 02:22	WG1738116
1,1-Dichloropropene	ND		1.00	1	09/11/2021 02:22	WG1738116
1,3-Dichloropropane	ND		1.00	1	09/11/2021 02:22	WG1738116
cis-1,3-Dichloropropene	ND		1.00	1	09/11/2021 02:22	WG1738116
trans-1,3-Dichloropropene	ND		1.00	1	09/11/2021 02:22	WG1738116
2,2-Dichloropropane	ND		1.00	1	09/11/2021 02:22	WG1738116
Di-isopropyl ether	ND		1.00	1	09/11/2021 02:22	WG1738116
Ethylbenzene	ND		1.00	1	09/11/2021 02:22	WG1738116

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

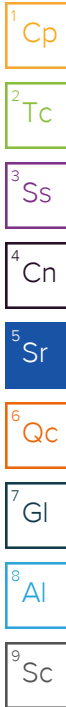
7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Hexachloro-1,3-butadiene	ND		1.00	1	09/11/2021 02:22	WG1738116
Isopropylbenzene	ND		1.00	1	09/11/2021 02:22	WG1738116
p-Isopropyltoluene	ND		1.00	1	09/11/2021 02:22	WG1738116
2-Butanone (MEK)	ND		10.0	1	09/11/2021 02:22	WG1738116
Methylene Chloride	ND		5.00	1	09/11/2021 02:22	WG1738116
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	09/11/2021 02:22	WG1738116
Methyl tert-butyl ether	ND		1.00	1	09/11/2021 02:22	WG1738116
Naphthalene	ND		5.00	1	09/11/2021 02:22	WG1738116
n-Propylbenzene	ND		1.00	1	09/11/2021 02:22	WG1738116
Styrene	ND		1.00	1	09/11/2021 02:22	WG1738116
1,1,1,2-Tetrachloroethane	ND		1.00	1	09/11/2021 02:22	WG1738116
1,1,2,2-Tetrachloroethane	ND		1.00	1	09/11/2021 02:22	WG1738116
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	09/11/2021 02:22	WG1738116
Tetrachloroethene	ND		1.00	1	09/11/2021 02:22	WG1738116
Toluene	ND		1.00	1	09/11/2021 02:22	WG1738116
1,2,3-Trichlorobenzene	ND		1.00	1	09/11/2021 02:22	WG1738116
1,2,4-Trichlorobenzene	ND		1.00	1	09/11/2021 02:22	WG1738116
1,1,1-Trichloroethane	ND		1.00	1	09/11/2021 02:22	WG1738116
1,1,2-Trichloroethane	ND		1.00	1	09/11/2021 02:22	WG1738116
Trichloroethene	ND		1.00	1	09/15/2021 16:39	WG1740545
Trichlorofluoromethane	ND		5.00	1	09/11/2021 02:22	WG1738116
1,2,3-Trichloropropane	ND		2.50	1	09/11/2021 02:22	WG1738116
1,2,4-Trimethylbenzene	ND		1.00	1	09/11/2021 02:22	WG1738116
1,2,3-Trimethylbenzene	ND		1.00	1	09/11/2021 02:22	WG1738116
1,3,5-Trimethylbenzene	ND		1.00	1	09/11/2021 02:22	WG1738116
Vinyl chloride	ND		1.00	1	09/11/2021 02:22	WG1738116
Xylenes, Total	ND		3.00	1	09/11/2021 02:22	WG1738116
(S) Toluene-d8	95.9		80.0-120		09/11/2021 02:22	WG1738116
(S) Toluene-d8	90.9		80.0-120		09/15/2021 16:39	WG1740545
(S) 4-Bromofluorobenzene	106		77.0-126		09/11/2021 02:22	WG1738116
(S) 4-Bromofluorobenzene	92.8		77.0-126		09/15/2021 16:39	WG1740545
(S) 1,2-Dichloroethane-d4	110		70.0-130		09/11/2021 02:22	WG1738116
(S) 1,2-Dichloroethane-d4	105		70.0-130		09/15/2021 16:39	WG1740545



EDB / DBCP by Method 8011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylene Dibromide	ND		0.0200	1	09/11/2021 21:22	WG1738097
1,2-Dibromo-3-Chloropropane	ND		0.0200	1	09/11/2021 21:22	WG1738097

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) High Fraction	1980		100	1	09/14/2021 23:55	WG1738630
(S) o-Terphenyl	114		31.0-160		09/14/2021 23:55	WG1738630

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
PCB 1016	ND		0.580	1.16	09/10/2021 04:49	WG1737626
PCB 1221	ND		0.580	1.16	09/10/2021 04:49	WG1737626
PCB 1232	ND		0.580	1.16	09/10/2021 04:49	WG1737626
PCB 1242	ND		0.580	1.16	09/10/2021 04:49	WG1737626
PCB 1248	ND		0.580	1.16	09/10/2021 04:49	WG1737626
PCB 1254	ND		0.580	1.16	09/10/2021 04:49	WG1737626

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
PCB 1260	ND		0.580	1.16	09/10/2021 04:49	WG1737626
(S) Decachlorobiphenyl	74.9		10.0-128		09/10/2021 04:49	WG1737626
(S) Tetrachloro-m-xylene	82.8		10.0-127		09/10/2021 04:49	WG1737626

Sample Narrative:

L1399674-05 WG1737626: Dilution due to sample volume.

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0500	1	09/09/2021 01:30	WG1735762
Acenaphthene	ND		0.0500	1	09/09/2021 01:30	WG1735762
Acenaphthylene	ND		0.0500	1	09/09/2021 01:30	WG1735762
Benzo(a)anthracene	ND		0.0500	1	09/09/2021 01:30	WG1735762
Benzo(a)pyrene	ND		0.0500	1	09/09/2021 01:30	WG1735762
Benzo(b)fluoranthene	ND	J4	0.0500	1	09/09/2021 01:30	WG1735762
Benzo(g,h,i)perylene	ND		0.0500	1	09/09/2021 01:30	WG1735762
Benzo(k)fluoranthene	ND		0.0500	1	09/09/2021 01:30	WG1735762
Chrysene	ND		0.0500	1	09/09/2021 01:30	WG1735762
Dibenz(a,h)anthracene	ND		0.0500	1	09/09/2021 01:30	WG1735762
Fluoranthene	ND		0.100	1	09/09/2021 01:30	WG1735762
Fluorene	ND		0.0500	1	09/09/2021 01:30	WG1735762
Indeno(1,2,3-cd)pyrene	ND		0.0500	1	09/09/2021 01:30	WG1735762
Naphthalene	ND		0.250	1	09/09/2021 01:30	WG1735762
Phenanthrene	ND		0.0500	1	09/09/2021 01:30	WG1735762
Pyrene	ND		0.0500	1	09/09/2021 01:30	WG1735762
1-Methylnaphthalene	ND		0.250	1	09/09/2021 01:30	WG1735762
2-Methylnaphthalene	ND		0.250	1	09/09/2021 01:30	WG1735762
2-Chloronaphthalene	ND		0.250	1	09/09/2021 01:30	WG1735762
(S) Nitrobenzene-d5	148		31.0-160		09/09/2021 01:30	WG1735762
(S) 2-Fluorobiphenyl	113		48.0-148		09/09/2021 01:30	WG1735762
(S) p-Terphenyl-d14	151	J1	37.0-146		09/09/2021 01:30	WG1735762

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	09/09/2021 19:38	WG1736543

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	4.24		2.00	1	09/10/2021 00:06	WG1736822
Barium	354		2.00	1	09/10/2021 00:06	WG1736822
Cadmium	ND		1.00	1	09/10/2021 00:06	WG1736822
Chromium	2.04		2.00	1	09/10/2021 00:06	WG1736822
Lead	ND		2.00	1	09/10/2021 00:06	WG1736822
Selenium	ND		2.00	1	09/10/2021 00:06	WG1736822
Silver	ND		2.00	1	09/10/2021 00:06	WG1736822

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		250	5	09/11/2021 04:17	WG1738116
Acrolein	ND		250	5	09/11/2021 04:17	WG1738116
Acrylonitrile	ND		50.0	5	09/11/2021 04:17	WG1738116
Benzene	ND		5.00	5	09/11/2021 04:17	WG1738116
Bromobenzene	ND		5.00	5	09/11/2021 04:17	WG1738116
Bromodichloromethane	ND		5.00	5	09/11/2021 04:17	WG1738116
Bromoform	ND		5.00	5	09/11/2021 04:17	WG1738116
Bromomethane	ND		25.0	5	09/11/2021 04:17	WG1738116
n-Butylbenzene	ND		5.00	5	09/11/2021 04:17	WG1738116
sec-Butylbenzene	ND		5.00	5	09/11/2021 04:17	WG1738116
tert-Butylbenzene	ND		5.00	5	09/11/2021 04:17	WG1738116
Carbon tetrachloride	ND		5.00	5	09/11/2021 04:17	WG1738116
Chlorobenzene	ND		5.00	5	09/11/2021 04:17	WG1738116
Chlorodibromomethane	ND		5.00	5	09/11/2021 04:17	WG1738116
Chloroethane	ND		25.0	5	09/11/2021 04:17	WG1738116
Chloroform	ND		25.0	5	09/11/2021 04:17	WG1738116
Chloromethane	ND		12.5	5	09/11/2021 04:17	WG1738116
2-Chlorotoluene	ND		5.00	5	09/11/2021 04:17	WG1738116
4-Chlorotoluene	ND		5.00	5	09/11/2021 04:17	WG1738116
1,2-Dibromo-3-Chloropropane	ND		25.0	5	09/11/2021 04:17	WG1738116
1,2-Dibromoethane	ND		5.00	5	09/11/2021 04:17	WG1738116
Dibromomethane	ND		5.00	5	09/11/2021 04:17	WG1738116
1,2-Dichlorobenzene	ND		5.00	5	09/11/2021 04:17	WG1738116
1,3-Dichlorobenzene	ND		5.00	5	09/11/2021 04:17	WG1738116
1,4-Dichlorobenzene	ND		5.00	5	09/11/2021 04:17	WG1738116
Dichlorodifluoromethane	ND		25.0	5	09/11/2021 04:17	WG1738116
1,1-Dichloroethane	ND		5.00	5	09/11/2021 04:17	WG1738116
1,2-Dichloroethane	ND		5.00	5	09/11/2021 04:17	WG1738116
1,1-Dichloroethene	ND		5.00	5	09/11/2021 04:17	WG1738116
cis-1,2-Dichloroethene	ND		5.00	5	09/11/2021 04:17	WG1738116
trans-1,2-Dichloroethene	ND		5.00	5	09/11/2021 04:17	WG1738116
1,2-Dichloropropane	ND		5.00	5	09/11/2021 04:17	WG1738116
1,1-Dichloropropene	ND		5.00	5	09/11/2021 04:17	WG1738116
1,3-Dichloropropane	ND		5.00	5	09/11/2021 04:17	WG1738116
cis-1,3-Dichloropropene	ND		5.00	5	09/11/2021 04:17	WG1738116
trans-1,3-Dichloropropene	ND		5.00	5	09/11/2021 04:17	WG1738116
2,2-Dichloropropane	ND		5.00	5	09/11/2021 04:17	WG1738116
Di-isopropyl ether	ND		5.00	5	09/11/2021 04:17	WG1738116
Ethylbenzene	ND		5.00	5	09/11/2021 04:17	WG1738116

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Hexachloro-1,3-butadiene	ND		5.00	5	09/11/2021 04:17	WG1738116
Isopropylbenzene	ND		5.00	5	09/11/2021 04:17	WG1738116
p-Isopropyltoluene	ND		5.00	5	09/11/2021 04:17	WG1738116
2-Butanone (MEK)	ND		50.0	5	09/11/2021 04:17	WG1738116
Methylene Chloride	ND		25.0	5	09/11/2021 04:17	WG1738116
4-Methyl-2-pentanone (MIBK)	ND		50.0	5	09/11/2021 04:17	WG1738116
Methyl tert-butyl ether	ND		5.00	5	09/11/2021 04:17	WG1738116
Naphthalene	ND		25.0	5	09/11/2021 04:17	WG1738116
n-Propylbenzene	ND		5.00	5	09/11/2021 04:17	WG1738116
Styrene	ND		5.00	5	09/11/2021 04:17	WG1738116
1,1,1,2-Tetrachloroethane	ND		5.00	5	09/11/2021 04:17	WG1738116
1,1,2,2-Tetrachloroethane	ND		5.00	5	09/11/2021 04:17	WG1738116
1,1,2-Trichlorotrifluoroethane	ND		5.00	5	09/11/2021 04:17	WG1738116
Tetrachloroethene	ND		5.00	5	09/11/2021 04:17	WG1738116
Toluene	ND		5.00	5	09/11/2021 04:17	WG1738116
1,2,3-Trichlorobenzene	ND		5.00	5	09/11/2021 04:17	WG1738116
1,2,4-Trichlorobenzene	ND		5.00	5	09/11/2021 04:17	WG1738116
1,1,1-Trichloroethane	ND		5.00	5	09/11/2021 04:17	WG1738116
1,1,2-Trichloroethane	ND		5.00	5	09/11/2021 04:17	WG1738116
Trichloroethene	ND		5.00	5	09/11/2021 04:17	WG1738116
Trichlorofluoromethane	ND		25.0	5	09/11/2021 04:17	WG1738116
1,2,3-Trichloropropane	ND		12.5	5	09/11/2021 04:17	WG1738116
1,2,4-Trimethylbenzene	ND		5.00	5	09/11/2021 04:17	WG1738116
1,2,3-Trimethylbenzene	ND		5.00	5	09/11/2021 04:17	WG1738116
1,3,5-Trimethylbenzene	ND		5.00	5	09/11/2021 04:17	WG1738116
Vinyl chloride	ND		5.00	5	09/11/2021 04:17	WG1738116
Xylenes, Total	ND		15.0	5	09/11/2021 04:17	WG1738116
(S) Toluene-d8	97.9		80.0-120		09/11/2021 04:17	WG1738116
(S) 4-Bromofluorobenzene	97.5		77.0-126		09/11/2021 04:17	WG1738116
(S) 1,2-Dichloroethane-d4	107		70.0-130		09/11/2021 04:17	WG1738116

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1399674-06 WG1738116: Non-target compounds too high to run at a lower dilution.

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Ethylene Dibromide	ND		0.0200	1	09/11/2021 21:34	WG1738097
1,2-Dibromo-3-Chloropropane	ND		0.0200	1	09/11/2021 21:34	WG1738097

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) High Fraction	1430		100	1	09/15/2021 00:21	WG1738630
(S) o-Terphenyl	113		31.0-160		09/15/2021 00:21	WG1738630

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
PCB 1016	ND		0.500	1	09/14/2021 18:48	WG1738975
PCB 1221	ND		0.500	1	09/14/2021 18:48	WG1738975
PCB 1232	ND		0.500	1	09/14/2021 18:48	WG1738975
PCB 1242	ND		0.500	1	09/14/2021 18:48	WG1738975
PCB 1248	ND		0.500	1	09/14/2021 18:48	WG1738975
PCB 1254	ND		0.500	1	09/14/2021 18:48	WG1738975

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
PCB 1260	ND		0.500	1	09/14/2021 18:48	WG1738975
(S) Decachlorobiphenyl	32.6		10.0-128		09/14/2021 18:48	WG1738975
(S) Tetrachloro-m-xylene	62.2		10.0-127		09/14/2021 18:48	WG1738975

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0500	1	09/09/2021 01:50	WG1735762
Acenaphthene	ND		0.0500	1	09/09/2021 01:50	WG1735762
Acenaphthylene	ND		0.0500	1	09/09/2021 01:50	WG1735762
Benzo(a)anthracene	ND		0.0500	1	09/09/2021 01:50	WG1735762
Benzo(a)pyrene	ND		0.0500	1	09/09/2021 01:50	WG1735762
Benzo(b)fluoranthene	ND	J4	0.0500	1	09/09/2021 01:50	WG1735762
Benzo(g,h,i)perylene	ND		0.0500	1	09/09/2021 01:50	WG1735762
Benzo(k)fluoranthene	ND		0.0500	1	09/09/2021 01:50	WG1735762
Chrysene	ND		0.0500	1	09/09/2021 01:50	WG1735762
Dibenz(a,h)anthracene	ND		0.0500	1	09/09/2021 01:50	WG1735762
Fluoranthene	ND		0.100	1	09/09/2021 01:50	WG1735762
Fluorene	ND		0.0500	1	09/09/2021 01:50	WG1735762
Indeno(1,2,3-cd)pyrene	ND		0.0500	1	09/09/2021 01:50	WG1735762
Naphthalene	ND		0.250	1	09/09/2021 01:50	WG1735762
Phenanthrene	ND		0.0500	1	09/09/2021 01:50	WG1735762
Pyrene	ND		0.0500	1	09/09/2021 01:50	WG1735762
1-Methylnaphthalene	1.02		0.250	1	09/09/2021 01:50	WG1735762
2-Methylnaphthalene	1.79		0.250	1	09/09/2021 01:50	WG1735762
2-Chloronaphthalene	ND		0.250	1	09/09/2021 01:50	WG1735762
(S) Nitrobenzene-d5	134		31.0-160		09/09/2021 01:50	WG1735762
(S) 2-Fluorobiphenyl	119		48.0-148		09/09/2021 01:50	WG1735762
(S) p-Terphenyl-d14	150	J1	37.0-146		09/09/2021 01:50	WG1735762

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	09/10/2021 22:32	WG1738116
Acrolein	ND		50.0	1	09/10/2021 22:32	WG1738116
Acrylonitrile	ND		10.0	1	09/10/2021 22:32	WG1738116
Benzene	ND		1.00	1	09/10/2021 22:32	WG1738116
Bromobenzene	ND		1.00	1	09/10/2021 22:32	WG1738116
Bromodichloromethane	8.09		1.00	1	09/10/2021 22:32	WG1738116
Bromoform	ND		1.00	1	09/10/2021 22:32	WG1738116
Bromomethane	ND		5.00	1	09/10/2021 22:32	WG1738116
n-Butylbenzene	ND		1.00	1	09/10/2021 22:32	WG1738116
sec-Butylbenzene	ND		1.00	1	09/10/2021 22:32	WG1738116
tert-Butylbenzene	ND		1.00	1	09/10/2021 22:32	WG1738116
Carbon tetrachloride	ND		1.00	1	09/10/2021 22:32	WG1738116
Chlorobenzene	ND		1.00	1	09/10/2021 22:32	WG1738116
Chlorodibromomethane	ND		1.00	1	09/10/2021 22:32	WG1738116
Chloroethane	ND		5.00	1	09/10/2021 22:32	WG1738116
Chloroform	68.6		5.00	1	09/10/2021 22:32	WG1738116
Chloromethane	ND		2.50	1	09/10/2021 22:32	WG1738116
2-Chlorotoluene	ND		1.00	1	09/10/2021 22:32	WG1738116
4-Chlorotoluene	ND		1.00	1	09/10/2021 22:32	WG1738116
1,2-Dibromo-3-Chloropropane	ND		5.00	1	09/10/2021 22:32	WG1738116
1,2-Dibromoethane	ND		1.00	1	09/10/2021 22:32	WG1738116
Dibromomethane	ND		1.00	1	09/10/2021 22:32	WG1738116
1,2-Dichlorobenzene	ND		1.00	1	09/10/2021 22:32	WG1738116
1,3-Dichlorobenzene	ND		1.00	1	09/10/2021 22:32	WG1738116
1,4-Dichlorobenzene	ND		1.00	1	09/10/2021 22:32	WG1738116
Dichlorodifluoromethane	ND		5.00	1	09/10/2021 22:32	WG1738116
1,1-Dichloroethane	ND		1.00	1	09/10/2021 22:32	WG1738116
1,2-Dichloroethane	ND		1.00	1	09/10/2021 22:32	WG1738116
1,1-Dichloroethene	ND		1.00	1	09/10/2021 22:32	WG1738116
cis-1,2-Dichloroethene	ND		1.00	1	09/10/2021 22:32	WG1738116
trans-1,2-Dichloroethene	ND		1.00	1	09/10/2021 22:32	WG1738116
1,2-Dichloropropane	ND		1.00	1	09/10/2021 22:32	WG1738116
1,1-Dichloropropene	ND		1.00	1	09/10/2021 22:32	WG1738116
1,3-Dichloropropane	ND		1.00	1	09/10/2021 22:32	WG1738116
cis-1,3-Dichloropropene	ND		1.00	1	09/10/2021 22:32	WG1738116
trans-1,3-Dichloropropene	ND		1.00	1	09/10/2021 22:32	WG1738116
2,2-Dichloropropane	ND		1.00	1	09/10/2021 22:32	WG1738116
Di-isopropyl ether	ND		1.00	1	09/10/2021 22:32	WG1738116
Ethylbenzene	ND		1.00	1	09/10/2021 22:32	WG1738116
Hexachloro-1,3-butadiene	ND		1.00	1	09/10/2021 22:32	WG1738116
Isopropylbenzene	ND		1.00	1	09/10/2021 22:32	WG1738116
p-Isopropyltoluene	ND		1.00	1	09/10/2021 22:32	WG1738116
2-Butanone (MEK)	ND		10.0	1	09/10/2021 22:32	WG1738116
Methylene Chloride	ND		5.00	1	09/10/2021 22:32	WG1738116
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	09/10/2021 22:32	WG1738116
Methyl tert-butyl ether	ND		1.00	1	09/10/2021 22:32	WG1738116
Naphthalene	ND		5.00	1	09/10/2021 22:32	WG1738116
n-Propylbenzene	ND		1.00	1	09/10/2021 22:32	WG1738116
Styrene	ND		1.00	1	09/10/2021 22:32	WG1738116
1,1,1,2-Tetrachloroethane	ND		1.00	1	09/10/2021 22:32	WG1738116
1,1,2,2-Tetrachloroethane	ND		1.00	1	09/10/2021 22:32	WG1738116
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	09/10/2021 22:32	WG1738116
Tetrachloroethene	ND		1.00	1	09/10/2021 22:32	WG1738116
Toluene	ND		1.00	1	09/10/2021 22:32	WG1738116
1,2,3-Trichlorobenzene	ND		1.00	1	09/10/2021 22:32	WG1738116
1,2,4-Trichlorobenzene	ND		1.00	1	09/10/2021 22:32	WG1738116

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	09/10/2021 22:32	WG1738116
1,1,2-Trichloroethane	ND		1.00	1	09/10/2021 22:32	WG1738116
Trichloroethene	ND		1.00	1	09/10/2021 22:32	WG1738116
Trichlorofluoromethane	ND		5.00	1	09/10/2021 22:32	WG1738116
1,2,3-Trichloropropane	ND		2.50	1	09/10/2021 22:32	WG1738116
1,2,4-Trimethylbenzene	ND		1.00	1	09/10/2021 22:32	WG1738116
1,2,3-Trimethylbenzene	ND		1.00	1	09/10/2021 22:32	WG1738116
1,3,5-Trimethylbenzene	ND		1.00	1	09/10/2021 22:32	WG1738116
Vinyl chloride	ND		1.00	1	09/10/2021 22:32	WG1738116
Xylenes, Total	ND		3.00	1	09/10/2021 22:32	WG1738116
(S) Toluene-d8	97.8		80.0-120		09/10/2021 22:32	WG1738116
(S) 4-Bromofluorobenzene	98.3		77.0-126		09/10/2021 22:32	WG1738116
(S) 1,2-Dichloroethane-d4	99.7		70.0-130		09/10/2021 22:32	WG1738116

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3702549-1 09/09/21 18:54

Analyte	MB Result ug/l	<u>MB Qualifier</u>	MB MDL ug/l	MB RDL ug/l
Mercury	U		0.100	0.200

Laboratory Control Sample (LCS)

(LCS) R3702549-2 09/09/21 18:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Mercury	3.00	3.17	106	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3702703-1 09/09/21 23:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Arsenic	U		0.180	2.00
Barium	U		0.381	2.00
Cadmium	U		0.150	1.00
Chromium	U		1.24	2.00
Lead	U		0.849	2.00
Selenium	U		0.300	2.00
Silver	U		0.0700	2.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3702703-2 09/09/21 23:04

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Arsenic	50.0	45.0	89.9	80.0-120	
Barium	50.0	48.1	96.3	80.0-120	
Cadmium	50.0	50.0	100	80.0-120	
Chromium	50.0	47.3	94.6	80.0-120	
Lead	50.0	46.5	92.9	80.0-120	
Selenium	50.0	46.8	93.7	80.0-120	
Silver	50.0	49.1	98.1	80.0-120	

L1399705-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399705-01 09/09/21 23:08 • (MS) R3702703-4 09/09/21 23:15 • (MSD) R3702703-5 09/09/21 23:18

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Arsenic	50.0	ND	45.6	45.0	90.3	89.0	1	75.0-125			1.38	20
Barium	50.0	2.80	49.2	47.0	92.8	88.4	1	75.0-125			4.64	20
Cadmium	50.0	ND	49.5	49.9	99.0	99.8	1	75.0-125			0.828	20
Chromium	50.0	ND	47.2	46.1	94.4	92.2	1	75.0-125			2.39	20
Lead	50.0	ND	47.7	46.6	95.4	93.1	1	75.0-125			2.42	20
Selenium	50.0	ND	47.8	47.5	95.6	95.0	1	75.0-125			0.652	20
Silver	50.0	ND	50.7	49.7	101	99.4	1	75.0-125			1.96	20

Method Blank (MB)

(MB) R3703122-4 09/11/21 11:01

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3703122-4 09/11/21 11:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	96.4			80.0-120
(S) 4-Bromofluorobenzene	88.1			77.0-126
(S) 1,2-Dichloroethane-d4	94.9			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3703122-1 09/11/21 08:39 • (LCSD) R3703122-3 09/11/21 10:20

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Acetone	25.0	23.2	25.0	92.8	100	19.0-160			7.47	27
Acrolein	25.0	26.9	29.6	108	118	10.0-160			9.56	26
Acrylonitrile	25.0	27.0	26.0	108	104	55.0-149			3.77	20
Benzene	5.00	5.86	5.47	117	109	70.0-123			6.88	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3703122-1 09/11/21 08:39 • (LCSD) R3703122-3 09/11/21 10:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromobenzene	5.00	4.99	5.02	99.8	100	73.0-121			0.599	20
Bromodichloromethane	5.00	5.93	5.64	119	113	75.0-120			5.01	20
Bromoform	5.00	5.18	4.96	104	99.2	68.0-132			4.34	20
Bromomethane	5.00	3.64	3.79	72.8	75.8	10.0-160			4.04	25
n-Butylbenzene	5.00	4.00	4.15	80.0	83.0	73.0-125			3.68	20
sec-Butylbenzene	5.00	4.52	4.45	90.4	89.0	75.0-125			1.56	20
tert-Butylbenzene	5.00	4.60	4.53	92.0	90.6	76.0-124			1.53	20
Carbon tetrachloride	5.00	4.34	4.06	86.8	81.2	68.0-126			6.67	20
Chlorobenzene	5.00	5.12	4.97	102	99.4	80.0-121			2.97	20
Chlorodibromomethane	5.00	4.94	4.64	98.8	92.8	77.0-125			6.26	20
Chloroethane	5.00	6.16	5.55	123	111	47.0-150			10.4	20
Chloroform	5.00	5.76	5.57	115	111	73.0-120			3.35	20
Chloromethane	5.00	4.61	4.97	92.2	99.4	41.0-142			7.52	20
2-Chlorotoluene	5.00	4.62	4.52	92.4	90.4	76.0-123			2.19	20
4-Chlorotoluene	5.00	4.72	4.64	94.4	92.8	75.0-122			1.71	20
1,2-Dibromo-3-Chloropropane	5.00	4.67	4.50	93.4	90.0	58.0-134			3.71	20
1,2-Dibromoethane	5.00	5.01	4.88	100	97.6	80.0-122			2.63	20
Dibromomethane	5.00	5.33	5.41	107	108	80.0-120			1.49	20
1,2-Dichlorobenzene	5.00	4.86	4.86	97.2	97.2	79.0-121			0.000	20
1,3-Dichlorobenzene	5.00	4.96	4.92	99.2	98.4	79.0-120			0.810	20
1,4-Dichlorobenzene	5.00	4.68	4.92	93.6	98.4	79.0-120			5.00	20
Dichlorodifluoromethane	5.00	5.13	4.94	103	98.8	51.0-149			3.77	20
1,1-Dichloroethane	5.00	5.88	5.63	118	113	70.0-126			4.34	20
1,2-Dichloroethane	5.00	5.50	5.14	110	103	70.0-128			6.77	20
1,1-Dichloroethene	5.00	5.65	5.25	113	105	71.0-124			7.34	20
cis-1,2-Dichloroethene	5.00	5.40	5.23	108	105	73.0-120			3.20	20
trans-1,2-Dichloroethene	5.00	5.39	5.24	108	105	73.0-120			2.82	20
1,2-Dichloropropane	5.00	5.68	5.40	114	108	77.0-125			5.05	20
1,1-Dichloropropene	5.00	5.37	5.38	107	108	74.0-126			0.186	20
1,3-Dichloropropane	5.00	5.42	5.24	108	105	80.0-120			3.38	20
cis-1,3-Dichloropropene	5.00	5.57	5.45	111	109	80.0-123			2.18	20
trans-1,3-Dichloropropene	5.00	4.93	4.99	98.6	99.8	78.0-124			1.21	20
2,2-Dichloropropane	5.00	5.14	5.61	103	112	58.0-130			8.74	20
Di-isopropyl ether	5.00	5.28	5.02	106	100	58.0-138			5.05	20
Ethylbenzene	5.00	5.30	4.85	106	97.0	79.0-123			8.87	20
Hexachloro-1,3-butadiene	5.00	4.83	4.88	96.6	97.6	54.0-138			1.03	20
Isopropylbenzene	5.00	4.97	4.90	99.4	98.0	76.0-127			1.42	20
p-Isopropyltoluene	5.00	4.36	4.57	87.2	91.4	76.0-125			4.70	20
2-Butanone (MEK)	25.0	24.6	24.8	98.4	99.2	44.0-160			0.810	20
Methylene Chloride	5.00	5.70	5.67	114	113	67.0-120			0.528	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3703122-1 09/11/21 08:39 • (LCSD) R3703122-3 09/11/21 10:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	25.0	24.6	24.0	98.4	96.0	68.0-142			2.47	20
Methyl tert-butyl ether	5.00	5.84	5.61	117	112	68.0-125			4.02	20
Naphthalene	5.00	4.37	4.38	87.4	87.6	54.0-135			0.229	20
n-Propylbenzene	5.00	4.40	4.51	88.0	90.2	77.0-124			2.47	20
Styrene	5.00	5.03	5.04	101	101	73.0-130			0.199	20
1,1,1,2-Tetrachloroethane	5.00	4.90	4.79	98.0	95.8	75.0-125			2.27	20
1,1,2,2-Tetrachloroethane	5.00	4.94	5.44	98.8	109	65.0-130			9.63	20
Tetrachloroethene	5.00	5.53	4.99	111	99.8	72.0-132			10.3	20
Toluene	5.00	5.11	4.88	102	97.6	79.0-120			4.60	20
1,1,2-Trichlorotrifluoroethane	5.00	5.48	5.33	110	107	69.0-132			2.78	20
1,2,3-Trichlorobenzene	5.00	4.58	4.46	91.6	89.2	50.0-138			2.65	20
1,2,4-Trichlorobenzene	5.00	4.43	4.29	88.6	85.8	57.0-137			3.21	20
1,1,1-Trichloroethane	5.00	5.57	5.29	111	106	73.0-124			5.16	20
1,1,2-Trichloroethane	5.00	5.24	5.17	105	103	80.0-120			1.34	20
Trichloroethene	5.00	6.02	4.91	120	98.2	78.0-124		J3	20.3	20
Trichlorofluoromethane	5.00	5.71	5.23	114	105	59.0-147			8.78	20
1,2,3-Trichloropropane	5.00	5.59	5.42	112	108	73.0-130			3.09	20
1,2,3-Trimethylbenzene	5.00	5.15	5.01	103	100	77.0-120			2.76	20
1,2,4-Trimethylbenzene	5.00	5.01	5.09	100	102	76.0-121			1.58	20
1,3,5-Trimethylbenzene	5.00	4.86	4.92	97.2	98.4	76.0-122			1.23	20
Vinyl chloride	5.00	5.23	4.95	105	99.0	67.0-131			5.50	20
Xylenes, Total	15.0	15.9	15.2	106	101	79.0-123			4.50	20
(S) Toluene-d8				93.4	94.0	80.0-120				
(S) 4-Bromofluorobenzene				92.9	93.4	77.0-126				
(S) 1,2-Dichloroethane-d4				99.7	97.2	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3704510-2 09/10/21 22:13

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3704510-2 09/10/21 22:13

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	100			80.0-120
(S) 4-Bromofluorobenzene	98.2			77.0-126
(S) 1,2-Dichloroethane-d4	99.2			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3704510-1 09/10/21 21:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	20.9	83.6	19.0-160	
Acrolein	25.0	6.48	25.9	10.0-160	
Acrylonitrile	25.0	17.6	70.4	55.0-149	
Benzene	5.00	5.02	100	70.0-123	

Laboratory Control Sample (LCS)

(LCS) R3704510-1 09/10/21 21:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromobenzene	5.00	4.70	94.0	73.0-121	
Bromodichloromethane	5.00	4.94	98.8	75.0-120	
Bromoform	5.00	4.24	84.8	68.0-132	
Bromomethane	5.00	5.19	104	10.0-160	
n-Butylbenzene	5.00	4.30	86.0	73.0-125	
sec-Butylbenzene	5.00	4.92	98.4	75.0-125	
tert-Butylbenzene	5.00	4.76	95.2	76.0-124	
Carbon tetrachloride	5.00	4.70	94.0	68.0-126	
Chlorobenzene	5.00	4.39	87.8	80.0-121	
Chlorodibromomethane	5.00	4.41	88.2	77.0-125	
Chloroethane	5.00	4.98	99.6	47.0-150	
Chloroform	5.00	5.00	100	73.0-120	
Chloromethane	5.00	4.25	85.0	41.0-142	
2-Chlorotoluene	5.00	4.98	99.6	76.0-123	
4-Chlorotoluene	5.00	5.10	102	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.02	80.4	58.0-134	
1,2-Dibromoethane	5.00	4.81	96.2	80.0-122	
Dibromomethane	5.00	4.63	92.6	80.0-120	
1,2-Dichlorobenzene	5.00	4.59	91.8	79.0-121	
1,3-Dichlorobenzene	5.00	4.51	90.2	79.0-120	
1,4-Dichlorobenzene	5.00	4.36	87.2	79.0-120	
Dichlorodifluoromethane	5.00	4.57	91.4	51.0-149	
1,1-Dichloroethane	5.00	4.58	91.6	70.0-126	
1,2-Dichloroethane	5.00	4.34	86.8	70.0-128	
1,1-Dichloroethene	5.00	4.05	81.0	71.0-124	
cis-1,2-Dichloroethene	5.00	5.15	103	73.0-120	
trans-1,2-Dichloroethene	5.00	4.75	95.0	73.0-120	
1,2-Dichloropropane	5.00	4.29	85.8	77.0-125	
1,1-Dichloropropene	5.00	5.35	107	74.0-126	
1,3-Dichloropropane	5.00	5.15	103	80.0-120	
cis-1,3-Dichloropropene	5.00	5.31	106	80.0-123	
trans-1,3-Dichloropropene	5.00	4.83	96.6	78.0-124	
2,2-Dichloropropane	5.00	6.27	125	58.0-130	
Di-isopropyl ether	5.00	4.07	81.4	58.0-138	
Ethylbenzene	5.00	4.79	95.8	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.74	94.8	54.0-138	
Isopropylbenzene	5.00	4.41	88.2	76.0-127	
p-Isopropyltoluene	5.00	4.62	92.4	76.0-125	
2-Butanone (MEK)	25.0	19.4	77.6	44.0-160	
Methylene Chloride	5.00	4.85	97.0	67.0-120	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3704510-1 09/10/21 21:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
4-Methyl-2-pentanone (MIBK)	25.0	20.9	83.6	68.0-142	
Methyl tert-butyl ether	5.00	4.97	99.4	68.0-125	
Naphthalene	5.00	4.38	87.6	54.0-135	
n-Propylbenzene	5.00	5.04	101	77.0-124	
Styrene	5.00	4.81	96.2	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.73	94.6	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	5.18	104	65.0-130	
Tetrachloroethene	5.00	4.42	88.4	72.0-132	
Toluene	5.00	4.68	93.6	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	3.62	72.4	69.0-132	
1,2,3-Trichlorobenzene	5.00	3.57	71.4	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.20	84.0	57.0-137	
1,1,1-Trichloroethane	5.00	4.92	98.4	73.0-124	
1,1,2-Trichloroethane	5.00	4.89	97.8	80.0-120	
Trichloroethene	5.00	4.79	95.8	78.0-124	
Trichlorofluoromethane	5.00	4.03	80.6	59.0-147	
1,2,3-Trichloropropane	5.00	5.02	100	73.0-130	
1,2,3-Trimethylbenzene	5.00	4.54	90.8	77.0-120	
1,2,4-Trimethylbenzene	5.00	4.63	92.6	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.81	96.2	76.0-122	
Vinyl chloride	5.00	5.24	105	67.0-131	
Xylenes, Total	15.0	13.9	92.7	79.0-123	
<i>(S) Toluene-d8</i>			102	80.0-120	
<i>(S) 4-Bromofluorobenzene</i>			98.1	77.0-126	
<i>(S) 1,2-Dichloroethane-d4</i>			99.6	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1399603-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399603-19 09/10/21 23:11 • (MS) R3704510-3 09/11/21 04:36 • (MSD) R3704510-4 09/11/21 04:55

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acetone	25.0	ND	ND	ND	167	170	1	10.0-160	J5	J5	1.90	35
Acrolein	25.0	ND	ND	ND	44.4	40.4	1	10.0-160			9.43	39
Acrylonitrile	25.0	ND	19.4	22.1	77.6	88.4	1	21.0-160			13.0	32
Benzene	5.00	ND	4.93	5.60	98.6	112	1	17.0-158			12.7	27
Bromobenzene	5.00	ND	4.43	4.84	88.6	96.8	1	30.0-149			8.85	28
Bromodichloromethane	5.00	ND	5.47	5.92	109	118	1	31.0-150			7.90	27
Bromoform	5.00	ND	4.67	5.09	93.4	102	1	29.0-150			8.61	29
Bromomethane	5.00	ND	ND	ND	80.6	93.4	1	10.0-160			14.7	38

L1399603-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399603-19 09/10/21 23:11 • (MS) R3704510-3 09/11/21 04:36 • (MSD) R3704510-4 09/11/21 04:55

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
n-Butylbenzene	5.00	ND	4.45	5.16	89.0	103	1	31.0-150			14.8	30
sec-Butylbenzene	5.00	ND	4.59	5.39	91.8	108	1	33.0-155			16.0	29
tert-Butylbenzene	5.00	ND	4.70	5.47	94.0	109	1	34.0-153			15.1	28
Carbon tetrachloride	5.00	ND	5.56	6.22	111	124	1	23.0-159			11.2	28
Chlorobenzene	5.00	ND	4.49	4.91	89.8	98.2	1	33.0-152			8.94	27
Chlorodibromomethane	5.00	ND	4.61	5.01	92.2	100	1	37.0-149			8.32	27
Chloroethane	5.00	ND	ND	ND	85.4	93.0	1	10.0-160			8.52	30
Chloroform	5.00	ND	5.85	6.16	106	112	1	29.0-154			5.16	28
Chloromethane	5.00	ND	3.65	3.77	73.0	75.4	1	10.0-160			3.23	29
2-Chlorotoluene	5.00	ND	4.42	5.10	88.4	102	1	32.0-153			14.3	28
4-Chlorotoluene	5.00	ND	4.60	5.46	92.0	109	1	32.0-150			17.1	28
1,2-Dibromo-3-Chloropropane	5.00	ND	5.06	5.87	101	117	1	22.0-151			14.8	34
1,2-Dibromoethane	5.00	ND	4.73	5.12	94.6	102	1	34.0-147			7.92	27
Dibromomethane	5.00	ND	5.27	5.91	105	118	1	30.0-151			11.4	27
1,2-Dichlorobenzene	5.00	ND	5.09	5.80	102	116	1	34.0-149			13.0	28
1,3-Dichlorobenzene	5.00	ND	4.43	5.19	88.6	104	1	36.0-146			15.8	27
1,4-Dichlorobenzene	5.00	ND	4.16	4.88	83.2	97.6	1	35.0-142			15.9	27
Dichlorodifluoromethane	5.00	ND	5.09	5.53	102	111	1	10.0-160			8.29	29
1,1-Dichloroethane	5.00	ND	4.81	5.41	96.2	108	1	25.0-158			11.7	27
1,2-Dichloroethane	5.00	ND	5.18	5.53	104	111	1	29.0-151			6.54	27
1,1-Dichloroethene	5.00	ND	4.38	5.63	87.6	113	1	11.0-160			25.0	29
cis-1,2-Dichloroethene	5.00	ND	6.01	7.86	101	138	1	10.0-160			26.7	27
trans-1,2-Dichloroethene	5.00	ND	4.50	5.12	90.0	102	1	17.0-153			12.9	27
1,2-Dichloropropane	5.00	ND	4.36	4.77	87.2	95.4	1	30.0-156			8.98	27
1,1-Dichloropropene	5.00	ND	5.30	6.13	106	123	1	25.0-158			14.5	27
1,3-Dichloropropane	5.00	ND	5.08	5.73	102	115	1	38.0-147			12.0	27
cis-1,3-Dichloropropene	5.00	ND	5.30	5.86	106	117	1	34.0-149			10.0	28
trans-1,3-Dichloropropene	5.00	ND	4.82	5.11	96.4	102	1	32.0-149			5.84	28
2,2-Dichloropropane	5.00	ND	7.07	8.08	141	162	1	24.0-152	J5		13.3	29
Di-isopropyl ether	5.00	ND	4.22	4.54	84.4	90.8	1	21.0-160			7.31	28
Ethylbenzene	5.00	ND	4.81	5.19	96.2	104	1	30.0-155			7.60	27
Hexachloro-1,3-butadiene	5.00	ND	6.13	6.37	123	127	1	20.0-154			3.84	34
Isopropylbenzene	5.00	ND	4.91	5.42	98.2	108	1	28.0-157			9.87	27
p-Isopropyltoluene	5.00	ND	4.37	5.16	87.4	103	1	30.0-154			16.6	29
2-Butanone (MEK)	25.0	ND	21.8	23.6	87.2	94.4	1	10.0-160			7.93	32
Methylene Chloride	5.00	ND	ND	ND	98.2	71.6	1	23.0-144	J3		31.3	28
4-Methyl-2-pentanone (MIBK)	25.0	ND	22.0	24.1	88.0	96.4	1	29.0-160			9.11	29
Methyl tert-butyl ether	5.00	ND	5.43	6.20	109	124	1	28.0-150			13.2	29
Naphthalene	5.00	ND	6.46	5.95	129	119	1	12.0-156			8.22	35
n-Propylbenzene	5.00	ND	4.64	5.36	92.8	107	1	31.0-154			14.4	28

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1399603-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399603-19 09/10/21 23:11 • (MS) R3704510-3 09/11/21 04:36 • (MSD) R3704510-4 09/11/21 04:55

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Styrene	5.00	ND	4.96	5.32	99.2	106	1	33.0-155			7.00	28
1,1,1,2-Tetrachloroethane	5.00	ND	5.02	5.38	100	108	1	36.0-151			6.92	29
1,1,2,2-Tetrachloroethane	5.00	ND	5.00	5.79	100	116	1	33.0-150			14.6	28
Tetrachloroethene	5.00	ND	4.15	4.82	83.0	96.4	1	10.0-160			14.9	27
Toluene	5.00	ND	4.57	4.92	91.4	98.4	1	26.0-154			7.38	28
1,1,2-Trichlorotrifluoroethane	5.00	1.59	5.42	10.2	76.6	172	1	23.0-160	J3 J5		61.2	30
1,2,3-Trichlorobenzene	5.00	ND	5.37	5.07	107	101	1	17.0-150			5.75	36
1,2,4-Trichlorobenzene	5.00	ND	5.95	6.24	119	125	1	24.0-150			4.76	33
1,1,1-Trichloroethane	5.00	ND	6.08	6.63	122	133	1	23.0-160			8.65	28
1,1,2-Trichloroethane	5.00	ND	4.87	5.37	97.4	107	1	35.0-147			9.77	27
Trichloroethene	5.00	16.8	20.9	64.4	82.0	952	1	10.0-160	J3 J5		102	25
Trichlorofluoromethane	5.00	ND	ND	5.00	77.4	100	1	17.0-160			25.5	31
1,2,3-Trichloropropane	5.00	ND	4.91	5.66	98.2	113	1	34.0-151			14.2	29
1,2,3-Trimethylbenzene	5.00	ND	4.48	5.07	89.6	101	1	32.0-149			12.4	28
1,2,4-Trimethylbenzene	5.00	ND	4.53	5.10	90.6	102	1	26.0-154			11.8	27
1,3,5-Trimethylbenzene	5.00	ND	4.50	5.37	90.0	107	1	28.0-153			17.6	27
Vinyl chloride	5.00	ND	4.43	4.84	88.6	96.8	1	10.0-160			8.85	27
Xylenes, Total	15.0	ND	14.4	15.5	96.0	103	1	29.0-154			7.36	28
(S) Toluene-d8					90.8	93.4		80.0-120				
(S) 4-Bromofluorobenzene					102	102		77.0-126				
(S) 1,2-Dichloroethane-d4					109	111		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1399603-37 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399603-37 09/11/21 00:08 • (MS) R3704510-5 09/11/21 05:14 • (MSD) R3704510-6 09/11/21 05:33

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	ND	ND	ND	155	138	1	10.0-160			11.2	35
Acrolein	25.0	ND	ND	ND	44.8	39.0	1	10.0-160			13.7	39
Acrylonitrile	25.0	ND	21.8	19.1	87.2	76.4	1	21.0-160			13.2	32
Benzene	5.00	ND	5.61	4.98	112	99.6	1	17.0-158			11.9	27
Bromobenzene	5.00	ND	4.94	4.30	98.8	86.0	1	30.0-149			13.9	28
Bromodichloromethane	5.00	ND	5.95	5.19	119	104	1	31.0-150			13.6	27
Bromoform	5.00	ND	5.06	4.43	101	88.6	1	29.0-150			13.3	29
Bromomethane	5.00	ND	5.14	ND	103	87.4	1	10.0-160			16.2	38
n-Butylbenzene	5.00	ND	5.55	4.68	111	93.6	1	31.0-150			17.0	30
sec-Butylbenzene	5.00	ND	5.64	4.78	113	95.6	1	33.0-155			16.5	29
tert-Butylbenzene	5.00	ND	5.42	4.51	108	90.2	1	34.0-153			18.3	28
Carbon tetrachloride	5.00	ND	6.31	5.60	126	112	1	23.0-159			11.9	28

L1399603-37 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399603-37 09/11/21 00:08 • (MS) R3704510-5 09/11/21 05:14 • (MSD) R3704510-6 09/11/21 05:33

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chlorobenzene	5.00	ND	4.85	4.23	97.0	84.6	1	33.0-152			13.7	27
Chlorodibromomethane	5.00	ND	5.03	4.29	101	85.8	1	37.0-149			15.9	27
Chloroethane	5.00	ND	ND	ND	96.4	86.2	1	10.0-160			11.2	30
Chloroform	5.00	ND	6.72	5.78	123	105	1	29.0-154			15.0	28
Chloromethane	5.00	ND	3.91	3.44	78.2	68.8	1	10.0-160			12.8	29
2-Chlorotoluene	5.00	ND	5.26	4.25	105	85.0	1	32.0-153			21.2	28
4-Chlorotoluene	5.00	ND	5.52	4.82	110	96.4	1	32.0-150			13.5	28
1,2-Dibromo-3-Chloropropane	5.00	ND	5.84	ND	117	97.6	1	22.0-151			17.9	34
1,2-Dibromoethane	5.00	ND	5.07	4.40	101	88.0	1	34.0-147			14.1	27
Dibromomethane	5.00	ND	5.63	5.20	113	104	1	30.0-151			7.94	27
1,2-Dichlorobenzene	5.00	ND	5.62	4.70	112	94.0	1	34.0-149			17.8	28
1,3-Dichlorobenzene	5.00	ND	5.21	4.45	104	89.0	1	36.0-146			15.7	27
1,4-Dichlorobenzene	5.00	ND	4.80	4.18	96.0	83.6	1	35.0-142			13.8	27
Dichlorodifluoromethane	5.00	ND	6.05	5.49	121	110	1	10.0-160			9.71	29
1,1-Dichloroethane	5.00	ND	5.54	4.79	104	89.0	1	25.0-158			14.5	27
1,2-Dichloroethane	5.00	ND	5.48	4.97	110	99.4	1	29.0-151			9.76	27
1,1-Dichloroethene	5.00	4.48	9.19	8.86	94.2	87.6	1	11.0-160			3.66	29
cis-1,2-Dichloroethene	5.00	3.47	8.71	8.05	105	91.6	1	10.0-160			7.88	27
trans-1,2-Dichloroethene	5.00	ND	5.06	4.53	95.9	85.3	1	17.0-153			11.1	27
1,2-Dichloropropane	5.00	ND	4.84	4.22	96.8	84.4	1	30.0-156			13.7	27
1,1-Dichloropropene	5.00	ND	6.11	5.16	122	103	1	25.0-158			16.9	27
1,3-Dichloropropane	5.00	ND	5.57	4.81	111	96.2	1	38.0-147			14.6	27
cis-1,3-Dichloropropene	5.00	ND	6.17	5.25	123	105	1	34.0-149			16.1	28
trans-1,3-Dichloropropene	5.00	ND	5.19	4.56	104	91.2	1	32.0-149			12.9	28
2,2-Dichloropropane	5.00	ND	7.95	6.43	159	129	1	24.0-152	J5		21.1	29
Di-isopropyl ether	5.00	ND	4.54	4.13	90.8	82.6	1	21.0-160			9.46	28
Ethylbenzene	5.00	ND	5.45	4.52	109	90.4	1	30.0-155			18.7	27
Hexachloro-1,3-butadiene	5.00	ND	7.07	6.27	141	125	1	20.0-154			12.0	34
Isopropylbenzene	5.00	ND	5.59	4.82	112	96.4	1	28.0-157			14.8	27
p-Isopropyltoluene	5.00	ND	5.40	4.79	108	95.8	1	30.0-154			12.0	29
2-Butanone (MEK)	25.0	ND	22.7	20.4	90.8	81.6	1	10.0-160			10.7	32
Methylene Chloride	5.00	ND	ND	ND	52.2	60.8	1	23.0-144			15.2	28
4-Methyl-2-pentanone (MIBK)	25.0	ND	24.2	21.0	96.8	84.0	1	29.0-160			14.2	29
Methyl tert-butyl ether	5.00	ND	5.88	5.36	118	107	1	28.0-150			9.25	29
Naphthalene	5.00	ND	6.50	ND	130	99.8	1	12.0-156			26.3	35
n-Propylbenzene	5.00	ND	5.53	4.81	111	96.2	1	31.0-154			13.9	28
Styrene	5.00	ND	5.51	4.74	110	94.8	1	33.0-155			15.0	28
1,1,1,2-Tetrachloroethane	5.00	ND	5.21	4.58	104	91.6	1	36.0-151			12.9	29
1,1,2,2-Tetrachloroethane	5.00	ND	5.82	4.89	116	97.8	1	33.0-150			17.4	28
Tetrachloroethene	5.00	ND	5.69	5.19	94.2	84.2	1	10.0-160			9.19	27

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

L1399603-37 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399603-37 09/11/21 00:08 • (MS) R3704510-5 09/11/21 05:14 • (MSD) R3704510-6 09/11/21 05:33

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Toluene	5.00	ND	4.96	4.23	99.2	84.6	1	26.0-154			15.9	28
1,1,2-Trichlorotrifluoroethane	5.00	7.33	12.6	11.6	105	85.4	1	23.0-160			8.26	30
1,2,3-Trichlorobenzene	5.00	ND	5.40	4.33	108	86.6	1	17.0-150			22.0	36
1,2,4-Trichlorobenzene	5.00	ND	7.29	5.09	146	102	1	24.0-150		J3	35.5	33
1,1,1-Trichloroethane	5.00	ND	6.68	5.95	130	116	1	23.0-160			11.6	28
1,1,2-Trichloroethane	5.00	ND	5.39	4.71	108	94.2	1	35.0-147			13.5	27
Trichloroethene	5.00	72.9	78.6	75.5	114	52.0	1	10.0-160			4.02	25
Trichlorofluoromethane	5.00	ND	ND	ND	96.6	86.4	1	17.0-160			11.1	31
1,2,3-Trichloropropane	5.00	ND	5.66	4.46	113	89.2	1	34.0-151			23.7	29
1,2,3-Trimethylbenzene	5.00	ND	5.02	4.35	100	87.0	1	32.0-149			14.3	28
1,2,4-Trimethylbenzene	5.00	ND	5.21	4.55	104	91.0	1	26.0-154			13.5	27
1,3,5-Trimethylbenzene	5.00	ND	5.36	4.58	107	91.6	1	28.0-153			15.7	27
Vinyl chloride	5.00	ND	5.22	4.39	104	87.8	1	10.0-160			17.3	27
Xylenes, Total	15.0	ND	16.1	13.7	107	91.3	1	29.0-154			16.1	28
(S) Toluene-d8					93.1	93.8		80.0-120				
(S) 4-Bromofluorobenzene					104	101		77.0-126				
(S) 1,2-Dichloroethane-d4					108	109		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3704774-2 09/15/21 11:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Tetrachloroethene	U		0.300	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
Trichloroethene	U		0.190	1.00
(S) Toluene-d8	90.4			80.0-120
(S) 4-Bromofluorobenzene	91.3			77.0-126
(S) 1,2-Dichloroethane-d4	101			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3704774-1 09/15/21 09:37

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Tetrachloroethene	5.00	4.63	92.6	72.0-132	
1,1,2-Trichlorotrifluoroethane	5.00	5.22	104	69.0-132	
Trichloroethene	5.00	4.79	95.8	78.0-124	
(S) Toluene-d8			89.5	80.0-120	
(S) 4-Bromofluorobenzene			91.6	77.0-126	
(S) 1,2-Dichloroethane-d4			106	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3703542-1 09/08/21 18:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Ethylene Dibromide	U		0.00536	0.0200
1,2-Dibromo-3-Chloropropane	U		0.00748	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3703542-4 09/08/21 21:09 • (LCSD) R3703542-5 09/08/21 23:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Ethylene Dibromide	0.250	0.273	0.260	109	104	60.0-140			4.88	20
1,2-Dibromo-3-Chloropropane	0.250	0.265	0.254	106	102	60.0-140			4.24	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3703568-1 09/11/21 20:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Ethylene Dibromide	U		0.00536	0.0200
1,2-Dibromo-3-Chloropropane	U		0.00748	0.0200

L1399674-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1399674-04 09/11/21 21:10 • (DUP) R3703568-3 09/11/21 20:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Ethylene Dibromide	ND	ND	1	0.000		20
1,2-Dibromo-3-Chloropropane	ND	ND	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3703568-4 09/11/21 23:12 • (LCSD) R3703568-5 09/12/21 01:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Ethylene Dibromide	0.250	0.261	0.262	104	105	60.0-140			0.382	20
1,2-Dibromo-3-Chloropropane	0.250	0.254	0.265	102	106	60.0-140			4.24	20

L1400084-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1400084-02 09/11/21 20:46 • (MS) R3703568-2 09/11/21 20:33

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	ug/l	ug/l	ug/l	%		%	
Ethylene Dibromide	0.100	ND	0.0982	98.2	1	64.0-159	
1,2-Dibromo-3-Chloropropane	0.100	ND	0.0997	99.7	1	72.0-148	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3704373-1 09/14/21 20:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
TPH (GC/FID) High Fraction	U		24.7	100
<i>(S) o-Terphenyl</i>	121			31.0-160

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3704373-2 09/14/21 20:53 • (LCSD) R3704373-3 09/14/21 21:19

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1500	1500	1510	100	101	50.0-150			0.664	20
<i>(S) o-Terphenyl</i>				131	133	31.0-160				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3702817-1 09/10/21 00:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
PCB 1260	U		0.173	0.500
PCB 1016	U		0.270	0.500
PCB 1221	U		0.270	0.500
PCB 1232	U		0.270	0.500
PCB 1242	U		0.270	0.500
PCB 1248	U		0.173	0.500
PCB 1254	U		0.173	0.500
(S) Decachlorobiphenyl	75.3			10.0-128
(S) Tetrachloro-m-xylene	92.7			10.0-127

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3702817-2 09/10/21 00:20 • (LCSD) R3702817-3 09/10/21 00:33

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
PCB 1260	2.50	2.52	2.18	101	87.2	42.0-131			14.5	25
PCB 1016	2.50	2.57	2.53	103	101	36.0-135			1.57	29
(S) Decachlorobiphenyl				84.5	26.9	10.0-128				
(S) Tetrachloro-m-xylene				96.8	95.0	10.0-127				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3704688-1 09/14/21 15:44

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
PCB 1260	U		0.173	0.500
PCB 1016	U		0.270	0.500
PCB 1221	U		0.270	0.500
PCB 1232	U		0.270	0.500
PCB 1242	U		0.270	0.500
PCB 1248	U		0.173	0.500
PCB 1254	U		0.173	0.500
(S) Decachlorobiphenyl	16.0			10.0-128
(S) Tetrachloro-m-xylene	70.1			10.0-127

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3704688-5 09/14/21 16:02

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
PCB 1260	2.50	1.25	50.0	42.0-131	
PCB 1016	2.50	1.73	69.2	36.0-135	
(S) Decachlorobiphenyl			7.18	10.0-128	J2
(S) Tetrachloro-m-xylene			59.9	10.0-127	

7 Gl

8 Al

9 Sc

L1402060-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1402060-05 09/14/21 18:04 • (MS) R3704688-6 09/14/21 18:31 • (MSD) R3704688-7 09/14/21 18:39

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
PCB 1260	2.50	ND	0.562	ND	22.5	18.0	1	20.0-142		J6	22.1	27
PCB 1016	2.50	ND	5.24	4.31	210	172	1	11.0-160	J5 P	J5 P	19.5	38
(S) Decachlorobiphenyl					25.9	25.0		10.0-128				
(S) Tetrachloro-m-xylene					43.2	35.1		10.0-127				

Method Blank (MB)

(MB) R3701786-3 09/08/21 12:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Anthracene	U		0.0190	0.0500
Acenaphthene	U		0.0190	0.0500
Acenaphthylene	U		0.0171	0.0500
Benzo(a)anthracene	U		0.0203	0.0500
Benzo(a)pyrene	U		0.0184	0.0500
Benzo(b)fluoranthene	U		0.0168	0.0500
Benzo(g,h,i)perylene	U		0.0184	0.0500
Benzo(k)fluoranthene	U		0.0202	0.0500
Chrysene	U		0.0179	0.0500
Dibenz(a,h)anthracene	U		0.0160	0.0500
Fluoranthene	U		0.0270	0.100
Fluorene	U		0.0169	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500
Naphthalene	U		0.0917	0.250
Phenanthrene	U		0.0180	0.0500
Pyrene	U		0.0169	0.0500
1-Methylnaphthalene	U		0.0687	0.250
2-Methylnaphthalene	U		0.0674	0.250
2-Chloronaphthalene	U		0.0682	0.250
(S) Nitrobenzene-d5	121			31.0-160
(S) 2-Fluorobiphenyl	106			48.0-148
(S) p-Terphenyl-d14	130			37.0-146

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3701786-1 09/08/21 12:06 • (LCSD) R3701786-2 09/08/21 12:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	2.00	1.98	1.95	99.0	97.5	67.0-150			1.53	20
Acenaphthene	2.00	1.99	1.99	99.5	99.5	65.0-138			0.000	20
Acenaphthylene	2.00	2.13	2.14	106	107	66.0-140			0.468	20
Benzo(a)anthracene	2.00	1.91	1.90	95.5	95.0	61.0-140			0.525	20
Benzo(a)pyrene	2.00	1.88	1.85	94.0	92.5	60.0-143			1.61	20
Benzo(b)fluoranthene	2.00	1.86	1.86	93.0	93.0	58.0-141			0.000	20
Benzo(g,h,i)perylene	2.00	1.78	1.75	89.0	87.5	52.0-153			1.70	20
Benzo(k)fluoranthene	2.00	1.86	1.82	93.0	91.0	58.0-148			2.17	20
Chrysene	2.00	1.87	1.93	93.5	96.5	64.0-144			3.16	20
Dibenz(a,h)anthracene	2.00	1.78	1.74	89.0	87.0	52.0-155			2.27	20
Fluoranthene	2.00	1.88	1.88	94.0	94.0	69.0-153			0.000	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3701786-1 09/08/21 12:06 • (LCSD) R3701786-2 09/08/21 12:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Fluorene	2.00	1.95	1.94	97.5	97.0	64.0-136			0.514	20
Indeno(1,2,3-cd)pyrene	2.00	1.80	1.77	90.0	88.5	54.0-153			1.68	20
Naphthalene	2.00	1.99	1.99	99.5	99.5	61.0-137			0.000	20
Phenanthrene	2.00	1.94	1.96	97.0	98.0	62.0-137			1.03	20
Pyrene	2.00	1.95	1.98	97.5	99.0	60.0-142			1.53	20
1-Methylnaphthalene	2.00	1.91	1.93	95.5	96.5	66.0-142			1.04	20
2-Methylnaphthalene	2.00	1.83	1.82	91.5	91.0	62.0-136			0.548	20
2-Chloronaphthalene	2.00	1.92	1.93	96.0	96.5	64.0-140			0.519	20
<i>(S) Nitrobenzene-d5</i>				111	111	31.0-160				
<i>(S) 2-Fluorobiphenyl</i>				95.0	96.0	48.0-148				
<i>(S) p-Terphenyl-d14</i>				116	117	37.0-146				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3702180-3 09/08/21 20:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Anthracene	U		0.0190	0.0500
Acenaphthene	U		0.0190	0.0500
Acenaphthylene	U		0.0171	0.0500
Benzo(a)anthracene	U		0.0203	0.0500
Benzo(a)pyrene	U		0.0184	0.0500
Benzo(b)fluoranthene	U		0.0168	0.0500
Benzo(g,h,i)perylene	U		0.0184	0.0500
Benzo(k)fluoranthene	U		0.0202	0.0500
Chrysene	U		0.0179	0.0500
Dibenz(a,h)anthracene	U		0.0160	0.0500
Fluoranthene	U		0.0270	0.100
Fluorene	U		0.0169	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500
Naphthalene	U		0.0917	0.250
Phenanthrene	U		0.0180	0.0500
Pyrene	U		0.0169	0.0500
1-Methylnaphthalene	U		0.0687	0.250
2-Methylnaphthalene	U		0.0674	0.250
2-Chloronaphthalene	U		0.0682	0.250
(S) Nitrobenzene-d5	126			31.0-160
(S) 2-Fluorobiphenyl	111			48.0-148
(S) p-Terphenyl-d14	163	J1		37.0-146

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3702180-1 09/08/21 19:29 • (LCSD) R3702180-2 09/08/21 19:49

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	2.00	2.31	2.27	115	114	67.0-150			1.75	20
Acenaphthene	2.00	2.50	2.47	125	123	65.0-138			1.21	20
Acenaphthylene	2.00	2.41	2.36	120	118	66.0-140			2.10	20
Benzo(a)anthracene	2.00	2.36	2.24	118	112	61.0-140			5.22	20
Benzo(a)pyrene	2.00	2.56	2.39	128	119	60.0-143			6.87	20
Benzo(b)fluoranthene	2.00	2.94	2.76	147	138	58.0-141	J4		6.32	20
Benzo(g,h,i)perylene	2.00	2.81	2.60	140	130	52.0-153			7.76	20
Benzo(k)fluoranthene	2.00	2.94	2.67	147	134	58.0-148			9.63	20
Chrysene	2.00	2.65	2.53	132	126	64.0-144			4.63	20
Dibenz(a,h)anthracene	2.00	2.73	2.50	137	125	52.0-155			8.80	20
Fluoranthene	2.00	2.42	2.39	121	119	69.0-153			1.25	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3702180-1 09/08/21 19:29 • (LCSD) R3702180-2 09/08/21 19:49

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Fluorene	2.00	2.37	2.32	118	116	64.0-136			2.13	20
Indeno(1,2,3-cd)pyrene	2.00	2.53	2.37	126	118	54.0-153			6.53	20
Naphthalene	2.00	2.30	2.31	115	115	61.0-137			0.434	20
Phenanthrene	2.00	2.51	2.53	125	126	62.0-137			0.794	20
Pyrene	2.00	2.71	2.65	135	132	60.0-142			2.24	20
1-Methylnaphthalene	2.00	2.28	2.31	114	115	66.0-142			1.31	20
2-Methylnaphthalene	2.00	2.21	2.23	111	111	62.0-136			0.901	20
2-Chloronaphthalene	2.00	2.39	2.36	119	118	64.0-140			1.26	20
<i>(S) Nitrobenzene-d5</i>				138	136	31.0-160				
<i>(S) 2-Fluorobiphenyl</i>				116	117	48.0-148				
<i>(S) p-Terphenyl-d14</i>				171	162	37.0-146	<u>J1</u>	<u>J1</u>		

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

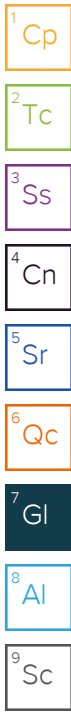
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P	RPD between the primary and confirmatory analysis exceeded 40%.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: NewFields
 Address: 700 SW Higgins, Suite 15, Missoula, MT 59803
 Report To: wwelzenbach@newfields.com
 Copy To: sberkelhammer@newfields.com
 Customer Project Name/Number: Blue North Mill. 350.0515.001

Billing Information: NewFields (attn: Dawn Violette)
 700 SW Higgins, Suite 15
 Missoula, MT 59803
 Email To: dviolette@newfields.com
 Site Collection Info/Address:
 283 Woodland Rd

Container Preservative Type **
 1 U 8 3 3 U
 Lab Project Manager:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

State: County/City: Time Zone Collected:
 ID / Idaho County [x]PT []MT []CT []ET
 Compliance Monitoring?
 [] Yes [] No
 DW PWS ID #:
 DW Location Code:
 Immediately Packed on Ice:
 [X] Yes [] No
 Field Filtered (if applicable):
 [] Yes [X] No
 Analysis:

Analyses	Lab Profile/Line:
Container Type: Plastic (P) or Glass (G) 6020 RCRA8 M6020 RCRA8 PAHs MLVI SV8011 RR0LVI V8260 8082	Lab Sample Receipt Checklist: Custody Seals Present/Intact <input checked="" type="checkbox"/> Y N NA Custody Signatures Present <input checked="" type="checkbox"/> Y N NA Collector Signature Present <input checked="" type="checkbox"/> Y N NA Bottles Intact <input checked="" type="checkbox"/> Y N NA Correct Bottles <input checked="" type="checkbox"/> Y N NA Sufficient Volume <input checked="" type="checkbox"/> Y N NA Samples Received on Ice <input checked="" type="checkbox"/> Y N NA VOA - Headspace Acceptable <input checked="" type="checkbox"/> Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: _____ Sample pH Acceptable Y N NA pH Strips: _____ Sulfide Present Y N NA Lead Acetate Strips: _____ LAB USE ONLY: Lab Sample # / Comments: L1399674 -01 -02 -03 -04 -09 -06 -07

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite)		Res Cl	# of Ctns
			Date	Time		
MW-5	GW	G	9.1.21	1200	13	G/P
MW-3	GW	G	9.1.21	1430	13	G/P
MW-4	GW	G	9.1.21	1630	13	G/P
MW-ERB	GW	G	9.1.21	1715	13	G/P
MW-1	GW	G	9.2.21	930	13	G/P
MW-2	GW	G	9.2.21	1050	13	G/P
Trip Blank	WT					

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA
 TC = 78

SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #: 51637716 9718
 Samples received via:
 FEDEX UPS Client Courier Pace Courier
 LAB Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: _____
 Cooler 1 Temp Upon Receipt: ___oC
 Cooler 1 Therm Corr. Factor: ___oC
 Cooler 1 Corrected Temp: ___oC

Relinquished by/Company: (Signature) *[Signature]* Date/Time: 9.3.21 1200
 Relinquished by/Company: (Signature) _____ Date/Time: _____
 Relinquished by/Company: (Signature) _____ Date/Time: _____

Date/Time: 9/4/21 930
 B148
 Accum: _____
 Template: _____
 Prelogin: _____
 PM: _____
 PB: _____
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): _____ Page: 1
 YES / NO of: 1

1 T13 HCL

Please fill out the information below, using one form for each lab batch (one form can be used for multiple analytical methods). The form will grow and adjust, based on your responses. Please include a discussion regarding the sampling event in the report that is sent to DEQ with this form. For additional instructions, please click the Open Complete Instructions button.

[Open Complete Instructions](#)

Basic Questions

[View example](#) (Note: example optimized for viewing in Chrome browser)

1. Site/Facility name	350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill - 283 Woodland Road, Kamiah, Idaho 83536		
2. Site code or facility ID (if applicable)	<input type="text"/>		
3. Release ID (if applicable)	<input type="text"/>		
4. Sample delivery group	L1394946 and L1394950		
5. Name of DEQ-approved sampling plan	Sampling & Analysis Plan - Limited Phase II Environmental Site Assessment		
6. Date DEQ approved the sampling plan	<input type="text" value="8/16/2021"/>	M/D/YY	
7. Name of data validator	M.Mave		
8. Phone	<input type="text" value="4065498270"/>		
9. Date validated	<input type="text" value="9/17/2021"/>	M/D/YY	

Field Collection Questions

[View example](#) (Note: example optimized for viewing in Chrome browser)

10. Sample matrix	<input type="checkbox"/> Soil <input checked="" type="checkbox"/> Sediment <input type="checkbox"/> Surface water <input type="checkbox"/> Groundwater <input type="checkbox"/> Tap water <input type="checkbox"/> Air (including soil gas) <input type="checkbox"/> Other <input type="text"/>																										
11. Sample collection start date	<input type="text" value="8/18/2021"/>	M/D/YY																									
12. Sample collection end date	<input type="text" value="8/20/2021"/>	M/D/YY																									
13. Analytical methods used	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Add Method</th> <th>Analytical Method(s)</th> </tr> </thead> <tbody> <tr> <td>Delete Method</td> <td>Total Solids by Method 2540 G-2011</td> </tr> <tr> <td>Delete Method</td> <td>Mercury by Method 7471A</td> </tr> <tr> <td>Delete Method</td> <td>Metals (ICP) by Method 6010B</td> </tr> <tr> <td>Delete Method</td> <td>Semi-Volatile Organic Compounds (GC) by Method NWTPHGX-SGT</td> </tr> <tr> <td>Delete Method</td> <td>Polychlorinated Biphenyls (GC) by Method 8082</td> </tr> <tr> <td>Delete Method</td> <td>Semi-Volatile Organic Compounds (GC/MS) by Method 8270C-SIM</td> </tr> <tr> <td>Delete Method</td> <td>Volatile Organic Compounds (GC) by Method NWTPHGX</td> </tr> <tr> <td>Delete Method</td> <td>Mercury by Method 7470A (Rinseate blank sample only)</td> </tr> <tr> <td>Delete Method</td> <td>Metals (ICPMS) by Method 6020 (Rinseate blank sample only)</td> </tr> <tr> <td>Delete Method</td> <td>Volatile Organic Compounds (GC/MS) by Method 8260B (Rinseate blank sample only)</td> </tr> <tr> <td>Delete Method</td> <td>EDB/DBCP by Method 8011 (Rinseate blank sample only)</td> </tr> </tbody> </table>			Add Method	Analytical Method(s)	Delete Method	Total Solids by Method 2540 G-2011	Delete Method	Mercury by Method 7471A	Delete Method	Metals (ICP) by Method 6010B	Delete Method	Semi-Volatile Organic Compounds (GC) by Method NWTPHGX-SGT	Delete Method	Polychlorinated Biphenyls (GC) by Method 8082	Delete Method	Semi-Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	Delete Method	Volatile Organic Compounds (GC) by Method NWTPHGX	Delete Method	Mercury by Method 7470A (Rinseate blank sample only)	Delete Method	Metals (ICPMS) by Method 6020 (Rinseate blank sample only)	Delete Method	Volatile Organic Compounds (GC/MS) by Method 8260B (Rinseate blank sample only)	Delete Method	EDB/DBCP by Method 8011 (Rinseate blank sample only)
Add Method	Analytical Method(s)																										
Delete Method	Total Solids by Method 2540 G-2011																										
Delete Method	Mercury by Method 7471A																										
Delete Method	Metals (ICP) by Method 6010B																										
Delete Method	Semi-Volatile Organic Compounds (GC) by Method NWTPHGX-SGT																										
Delete Method	Polychlorinated Biphenyls (GC) by Method 8082																										
Delete Method	Semi-Volatile Organic Compounds (GC/MS) by Method 8270C-SIM																										
Delete Method	Volatile Organic Compounds (GC) by Method NWTPHGX																										
Delete Method	Mercury by Method 7470A (Rinseate blank sample only)																										
Delete Method	Metals (ICPMS) by Method 6020 (Rinseate blank sample only)																										
Delete Method	Volatile Organic Compounds (GC/MS) by Method 8260B (Rinseate blank sample only)																										
Delete Method	EDB/DBCP by Method 8011 (Rinseate blank sample only)																										

Use Add Method button to list multiple methods. Enter any other methods in the field manually.

	Delete Method	Semi-Volatile Organic Compounds (GC) by Method 3511/8015 (Rinseate blank sample or
--	---------------	--

Laboratory-related Questions

[View example](#) (Note: example optimized for viewing in Chrome browser)

14. Laboratory name and location

15. Laboratory project ID

16. Were samples received in good condition and at appropriate temperature, chain-of-custody forms complete, and all samples analyzed within holding times?

Yes No See Below

17. Were all laboratory quality control procedures complied with and is data validated without qualifiers?

Yes No See Below

17a. Were all calibration verification results within acceptable limits?

Yes No

17b. Were laboratory (method) blank samples free of contamination?

Yes No

If no, explain

Selenium, anthracene, acenaphthylene, acenaphthene, phenanthrene, fluorene, 2-methylnaphthalene, and 2-methylnaphthalene detected in method blank samples. No sample results qualified either because the analyte was not detected in the associated natural sample or because the method blank detection was less than the natural sample's method detection limit.

17c. Are the percent recoveries and relative percent differences of matrix spike and matrix spike duplicates within quality control limits?

Yes No

If no, explain

MS/MSD percent recovery below quality control limits for TPH-Diesel Range Organics. 14 results qualified J-. MS/MSD relative percent difference outside precision limits for Aroclor-1260 (also identified as PCB 1260) and TPH-Diesel Range Organics. 21 results qualified J.

17d. Are the laboratory control samples the same matrix as the samples and prepared the same as associated samples?

Yes No

17e. Were laboratory control samples and laboratory control sample duplicate percent recoveries and relative percent differences within laboratory control limits?

Yes No

If no, explain

LCS percent recovery above QC limits for Aroclor-1016 and Aroclor-1260 (also identified as PCB 1016 and PCB 1260). These results are biased high, but analytes were not detected in 22 associated natural samples. Therefore, these 22 records were qualified U. LCS/LCSD relative percent difference outside of quality control limits for acetone, chloroethane, and 1,1-dichloroethene. 3 sample results (for the project rinseate blank) are qualified J.

17f. Were surrogate recoveries within laboratory quality control limits?

Yes No

If no, explain. Note: If surrogate sampling was conducted on samples not related to the project, please explain that here.

1 of 3 surrogate percent recoveries outside quality control limits for Method 8270C_SIM in sample ID TP-14 (12')/laboratory sample ID L1394950-07. Results were not qualified because 2 of 3 surrogate recoveries were within quality control limits.

17g. Were the laboratory duplicate relative percent differences within data validation quality control limits? Yes No Comments

If no, explain

LCS/LCSD and MS/MSD laboratory duplicate pairs with relative percent differences outside quality control limits discussed in sections 17c and 17e. No additional laboratory duplicate pairs exceeded precision limits.

18. Were the total number of lab method blanks at least 5% of the total number of samples, or as required by the method? Yes No Comments

19. Were the total number of lab matrix spike samples prepared at least 5% of the total number of samples, or as required by the method? Yes No Comments

If no, explain

For Methods 6010B, 6020, NWTPHGX, 8260B, 8082, 8011, or 8015 matrix spike samples were not prepared using a project-specific matrix. Instead, matrix spikes were prepared using unknown matrices that are not necessarily applicable to this project. Therefore matrix spikes were not evaluated for these Methods.

20. Please list any project samples used for matrix spike/matrix spike duplicates.

Add Sample	Lab ID	Field Sample ID	Comments
Delete Sample	L1394950-02		
Delete Sample	L1394950-03		
Delete Sample			

21. Is the total number of laboratory control samples at least 5% of the total number of samples? Yes No Comments

Consultant/Validator Questions

[View example](#) (Note: example optimized for viewing in Chrome browser)

22. Are the detection limits appropriate for the project (i.e. at or below screening levels)? Yes No Comments

23. Are the reported units appropriate for the sample matrix (i.e. water results in ug/L, not mg/kg)? Yes No Comments

24. Do the analytical methods comply with project requirements (e.g. in the SAP, work plan, or QAPP)? Yes No Comments

25. Do the laboratory reports include all constituents requested to be analyzed on the chain-of-custody or under the sampling plan or other applicable document? Yes No Comments

If no, explain

Volatile Organic Compounds (VOCs) by EPA Method 8260B were not analyzed as requested on the chain of

custody. VOCs by 8260B were analyzed outside of method specified holding time (14 days) and reported in SDG L1410346.

26. Is the number of sample blanks (e.g. equipment, trip, or field blanks) equal to at least 10% of the total number of samples, or as otherwise required? Yes No Comments

Field blank sample not collected in accordance with Section 2.12 of the project sampling and analysis plan.

27. Are field blanks free from contamination, duplicates collected as required, and field duplicate percent differences within data validation quality control limits? Yes No See Below Comments

Please explain

27a. Were all blank samples free of analyte contamination? Yes No Comments

27b. Were field duplicates collected as required? Yes No Comments

No field duplicate sample collected. 1 field duplicate sample required for every 20 natural samples for this project (Table 5-1 of the sampling and analysis plan).

If no, explain

27c. Are field duplicate relative percent differences within data validation quality control limits? Yes No Comments

Not applicable

28. Please provide an Excel or CSV file to the DEQ project manager (via e-mail or CD) that lists all samples evaluated in this summary and lists any qualified data.

Please use the following format:

Lab ID	Field Sample ID	Qualifiers	Comments (indicate whether the issue biases the results high or low)
Example 48310-2.31E	Example GW-1	R	Sample dropped in lab and unrecoverable
Example 48310-2.32D	Example GW-2		

Please use the following format for qualifiers. See EPA's National Functional Guidelines for more information on qualifiers for unique samples such as dioxins.

Qualifier	Explanation
C	Pesticide and Arochlor results confirmed with GC/MS
J-	Estimated value, may be biased low
J	Analyte identified, but concentration is estimated
J+	Estimated value, may be biased high
NJ	Tentatively identified compound
R	Sample result rejected
U	Analyte analyzed for, but not detected above quantitation limit
UJ	Analyte not detected above CRQL, but CRQL may be inaccurate
X	Pesticide and Arochlor results attempted using GC/MS, but unsuccessful

If you wish to manually enter qualified sample results, please use the table below.

Add Sample	Lab ID	Field Sample ID	Qualifiers	Comments (indicate whether the issue biases the results high or low)
Delete Sample				

29. What is the percent completeness (samples planned versus valid samples collected)? Comments

This completeness percentage does not consider VOC results which were reported in a separate SDG. The completeness of VOC results are assessed in a separate data validation report for SDG L1410346.

30. Was the completeness goal met? Yes No Comments

31. Does all data conform to analytical methods and data quality objectives specified for this project? Yes No Comments

32. Other general comments or observations?

Split Samples

33. Did IDEQ collect split samples? Yes No Comments

Print Form

Save As

Open Instructions

Hide Instructions

Summary of Qualified Data - Surface Soil and Test Pit Soil - SDGs L1394946 L1394950

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Method	Lab ID	SDG	Analyte	Validator Qualifiers	Final Qualifiers	Comment
SS-1_08182021	8270C_SIM	L1394946-01	L1394946	2-Methylnaphthalene		U	Analyte detected in method blank but not in sample.
SS-1_08182021	8270C_SIM	L1394946-01	L1394946	Acenaphthene		U	Analyte detected in method blank but not in sample.
SS-1_08182021	8270C_SIM	L1394946-01	L1394946	Acenaphthylene		U	Analyte detected in method blank but not in sample.
SS-1_08182021	8270C_SIM	L1394946-01	L1394946	Anthracene		U	Analyte detected in method blank but not in sample.
SS-1_08182021	8082	L1394946-01	L1394946	Aroclor-1016	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-1_08182021	8082	L1394946-01	L1394946	Aroclor-1260	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-1_08182021	8270C_SIM	L1394946-01	L1394946	Fluorene		U	Analyte detected in method blank but not in sample.
SS-1_08182021	8270C_SIM	L1394946-01	L1394946	Phenanthrene		U	Analyte detected in method blank but not in sample.
SS-1_08182021	6010B	L1394946-01	L1394946	Selenium		U	Analyte detected in method blank but not in sample.
SS-1_08182021	NWTPH-DX-SG	L1394946-01	L1394946	TPH-Diesel Range Organics	J-,J	J-	MS/MSD recovery below QC limits, sample result biased low. Matrix Spike duplicate RPD outside of QC limits.
SS-2_08182021	8270C_SIM	L1394946-02	L1394946	2-Methylnaphthalene		U	Analyte detected in method blank but not in sample.
SS-2_08182021	8270C_SIM	L1394946-02	L1394946	Acenaphthene		U	Analyte detected in method blank but not in sample.
SS-2_08182021	8270C_SIM	L1394946-02	L1394946	Acenaphthylene		U	Analyte detected in method blank but not in sample.
SS-2_08182021	8270C_SIM	L1394946-02	L1394946	Anthracene		U	Analyte detected in method blank but not in sample.
SS-2_08182021	8082	L1394946-02	L1394946	Aroclor-1016	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-2_08182021	8082	L1394946-02	L1394946	Aroclor-1260	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-2_08182021	8270C_SIM	L1394946-02	L1394946	Fluorene		U	Analyte detected in method blank but not in sample.
SS-2_08182021	8270C_SIM	L1394946-02	L1394946	Phenanthrene		U	Analyte detected in method blank but not in sample.
SS-2_08182021	6010B	L1394946-02	L1394946	Selenium		U	Analyte detected in method blank but not in sample.
SS-2_08182021	NWTPH-DX-SG	L1394946-02	L1394946	TPH-Diesel Range Organics	J-,J	J-	MS/MSD recovery below QC limits, sample result biased low. Matrix Spike duplicate RPD outside of QC limits.
SS-3_08192021	8082	L1394946-04	L1394946	Aroclor-1016	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-3_08192021	8082	L1394946-04	L1394946	Aroclor-1242	J	UJ	RPD between the primary and confirmatory analysis exceeded 40%. Result is estimated.
SS-3_08192021	8082	L1394946-04	L1394946	Aroclor-1260	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-3_08192021	6010B	L1394946-04	L1394946	Selenium			Analyte detected in method blank < sample MDL.
SS-3_08192021	NWTPH-DX-SG	L1394946-04	L1394946	TPH-Diesel Range Organics	J-,J	J-	MS/MSD recovery below QC limits, sample result biased low. Matrix Spike duplicate RPD outside of QC limits.
SS-4_08182021	8270C_SIM	L1394946-03	L1394946	2-Methylnaphthalene		U	Analyte detected in method blank but not in sample.
SS-4_08182021	8270C_SIM	L1394946-03	L1394946	Acenaphthene		U	Analyte detected in method blank but not in sample.
SS-4_08182021	8270C_SIM	L1394946-03	L1394946	Acenaphthylene		U	Analyte detected in method blank but not in sample.
SS-4_08182021	8270C_SIM	L1394946-03	L1394946	Anthracene		U	Analyte detected in method blank but not in sample.
SS-4_08182021	8082	L1394946-03	L1394946	Aroclor-1016	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-4_08182021	8082	L1394946-03	L1394946	Aroclor-1260	J+	U	LCS percent recovery above QC limits. Result biased high.

Summary of Qualified Data - Surface Soil and Test Pit Soil - SDGs L1394946 L1394950

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Method	Lab ID	SDG	Analyte	Validator Qualifiers	Final Qualifiers	Comment
SS-4_08182021	8270C_SIM	L1394946-03	L1394946	Fluorene		U	Analyte detected in method blank but not in sample.
SS-4_08182021	8270C_SIM	L1394946-03	L1394946	Phenanthrene		U	Analyte detected in method blank but not in sample.
SS-4_08182021	6010B	L1394946-03	L1394946	Selenium		U	Analyte detected in method blank but not in sample.
SS-4_08182021	NWTPH-DX-SG	L1394946-03	L1394946	TPH-Diesel Range Organics	J-,J	J-	MS/MSD recovery below QC limits, sample result biased low. Matrix Spike duplicate RPD outside of QC limits.
SS-5_08192021	8082	L1394946-07	L1394946	Aroclor-1016	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-5_08192021	8082	L1394946-07	L1394946	Aroclor-1260	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-5_08192021	6010B	L1394946-07	L1394946	Selenium		U	Analyte detected in method blank but not in sample.
SS-5_08192021	NWTPH-DX-SG	L1394946-07	L1394946	TPH-Diesel Range Organics	J-,J	J-	MS/MSD recovery below QC limits, sample result biased low. Matrix Spike duplicate RPD outside of QC limits.
SS-6_08192021	8082	L1394946-05	L1394946	Aroclor-1016	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-6_08192021	8082	L1394946-05	L1394946	Aroclor-1260	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-6_08192021	6010B	L1394946-05	L1394946	Selenium		U	Analyte detected in method blank but not in sample.
SS-6_08192021	NWTPH-DX-SG	L1394946-05	L1394946	TPH-Diesel Range Organics	J-,J	J-	MS/MSD recovery below QC limits, sample result biased low. Matrix Spike duplicate RPD outside of QC limits.
SS-7_08192021	8082	L1394946-09	L1394946	Aroclor-1016	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-7_08192021	8082	L1394946-09	L1394946	Aroclor-1260	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-7_08192021	6010B	L1394946-09	L1394946	Selenium			Analyte detected in method blank < sample MDL.
SS-7_08192021	NWTPH-DX-SG	L1394946-09	L1394946	TPH-Diesel Range Organics	J-,J	J-	MS/MSD recovery below QC limits, sample result biased low. Matrix Spike duplicate RPD outside of QC limits.
SS-8_08192021	8082	L1394946-06	L1394946	Aroclor-1016	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-8_08192021	8082	L1394946-06	L1394946	Aroclor-1260	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-8_08192021	6010B	L1394946-06	L1394946	Selenium		U	Analyte detected in method blank but not in sample.
SS-8_08192021	NWTPH-DX-SG	L1394946-06	L1394946	TPH-Diesel Range Organics	J-,J	J-	MS/MSD recovery below QC limits, sample result biased low. Matrix Spike duplicate RPD outside of QC limits.
SS-9_08192021	8082	L1394946-08	L1394946	Aroclor-1016	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-9_08192021	8082	L1394946-08	L1394946	Aroclor-1260	J+	U	LCS percent recovery above QC limits. Result biased high.
SS-9_08192021	6010B	L1394946-08	L1394946	Selenium			Analyte detected in method blank < sample MDL.
SS-9_08192021	NWTPH-DX-SG	L1394946-08	L1394946	TPH-Diesel Range Organics	J-,J	J-	MS/MSD recovery below QC limits, sample result biased low. Matrix Spike duplicate RPD outside of QC limits.
SS-ERB_08192021	8260B	L1394946-11	L1394946	1,1-Dichloroethene	J	UJ	LCS duplicate RPD outside of QC limits.
SS-ERB_08192021	8260B	L1394946-11	L1394946	Acetone	J	UJ	LCS duplicate RPD outside of QC limits.
SS-ERB_08192021	8260B	L1394946-11	L1394946	Chloroethane	J	UJ	LCS duplicate RPD outside of QC limits.
SS-ERB_08192021	8260B	L1394946-11	L1394946	Methyl ethyl ketone		U	Analyte detected in method blank but not in sample.
SS-ERB_08192021	8015M	L1394946-11	L1394946	TPH-Diesel Range Organics	R,J	R	MS/MSD recovery below acceptable limits and analyte not detected in sample. Result rejected. Matrix Spike duplicate RPD outside of QC limits.
SS-ERB_08192021	8260B	L1394946-11	L1394946	Trichlorotrifluoroethane	J	UJ	Sample analyzed outside of method-specified holding time.
TP-1 (9')_08182021	8082	L1394950-01	L1394950	Aroclor-1260	J	UJ	MS/MSD RPD outside precision limits.
TP-1 (9')_08182021	NWTPH-DX-SG	L1394950-01	L1394950	TPH-Diesel Range Organics	J-,J	J-	MS/MSD recovery below QC limits, sample result biased low. Matrix Spike duplicate RPD outside of QC limits.

Summary of Qualified Data - Surface Soil and Test Pit Soil - SDGs L1394946 L1394950

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Method	Lab ID	SDG	Analyte	Validator Qualifiers	Final Qualifiers	Comment
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	1-Methylnaphthalene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	2-Chloronaphthalene			1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	2-Methylnaphthalene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Acenaphthene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Acenaphthylene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Anthracene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8082	L1394950-07	L1394950	Aroclor-1016	J+	U	LCS percent recovery above QC limits. Result biased high.
TP-14 (12')_08192021	8082	L1394950-07	L1394950	Aroclor-1260	J+	U	LCS percent recovery above QC limits. Result biased high.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Benzo(a)anthracene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Benzo(a)pyrene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Benzo(b)fluoranthene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Benzo(g,h,i)perylene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Benzo(k)fluoranthene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Chrysene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Dibenzo(a,h)anthracene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Fluoranthene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Fluorene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Indeno(1,2,3-cd)pyrene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Naphthalene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Phenanthrene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	8270C_SIM	L1394950-07	L1394950	Pyrene		U	1 of 3 surrogate recoveries outside QC limits. No qualification necessary because 2 of 3 surrogate recoveries within QC limits.
TP-14 (12')_08192021	NWTPH-DX-SG	L1394950-07	L1394950	TPH-Diesel Range Organics	J-,J	J-	MS/MSD recovery below QC limits, sample result biased low. Matrix Spike duplicate RPD outside of QC limits.
TP-15 (14')_08192021	8082	L1394950-08	L1394950	Aroclor-1260	J	UJ	MS/MSD RPD outside precision limits.
TP-15 (14')_08192021	NWTPH-DX-SG	L1394950-08	L1394950	TPH-Diesel Range Organics	J-,J	J-	MS/MSD recovery below QC limits, sample result biased low. Matrix Spike duplicate RPD outside of QC limits.

Summary of Qualified Data - Surface Soil and Test Pit Soil - SDGs L1394946 L1394950

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Method	Lab ID	SDG	Analyte	Validator Qualifiers	Final Qualifiers	Comment
TP-4 (13')_08182021	8082	L1394950-02	L1394950	Aroclor-1260	J	UJ	MS/MSD RPD outside precision limits.
TP-4 (13')_08182021	NWTPH-DX-SG	L1394950-02	L1394950	TPH-Diesel Range Organics	J-,J	J-	MS/MSD recovery below QC limits, sample result biased low. Matrix Spike duplicate RPD outside of QC limits.
TP-6 (2')_08182021	8082	L1394950-03	L1394950	Aroclor-1016	J+	U	LCS percent recovery above QC limits. Result biased high.
TP-6 (2')_08182021	8082	L1394950-03	L1394950	Aroclor-1260	J+	U	LCS percent recovery above QC limits. Result biased high.
TP-6 (2')_08182021	NWTPH-DX-SG	L1394950-03	L1394950	TPH-Diesel Range Organics	J-,J	J-	MS/MSD recovery below QC limits, sample result biased low. Matrix Spike duplicate RPD outside of QC limits.

Please fill out the information below, using one form for each lab batch (one form can be used for multiple analytical methods). The form will grow and adjust, based on your responses. Please include a discussion regarding the sampling event in the report that is sent to DEQ with this form. For additional instructions, please click the Open Complete Instructions button.

[Open Complete Instructions](#)

Basic Questions [View example](#) (Note: example optimized for viewing in Chrome browser)

1. Site/Facility name	350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill - 283 Woodland Road, Kamiah, Idaho 83536		
2. Site code or facility ID (if applicable)	<input style="width: 100%;" type="text"/>		
3. Release ID (if applicable)	<input style="width: 100%;" type="text"/>		
4. Sample delivery group	L1410346		
5. Name of DEQ-approved sampling plan	Sampling & Analysis Plan - Limited Phase II Environmental Site Assessment		
6. Date DEQ approved the sampling plan	<input style="width: 150px;" type="text" value="8/16/2021"/>	M/D/YY	
7. Name of data validator	M.Mave		
8. Phone	<input style="width: 250px;" type="text" value="4065498270"/>		
9. Date validated	<input style="width: 150px;" type="text" value="10/14/2021"/>	M/D/YY	

Field Collection Questions [View example](#) (Note: example optimized for viewing in Chrome browser)

10. Sample matrix	<input type="checkbox"/> Soil <input checked="" type="checkbox"/> Sediment <input type="checkbox"/> Surface water <input type="checkbox"/> Groundwater <input type="checkbox"/> Tap water <input type="checkbox"/> Air (including soil gas) <input type="checkbox"/> Other <input style="width: 100px;" type="text"/>								
11. Sample collection start date	<input style="width: 150px;" type="text" value="8/18/2021"/>	M/D/YY							
12. Sample collection end date	<input style="width: 150px;" type="text" value="8/19/2021"/>	M/D/YY							
13. Analytical methods used	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">Add Method</td> <td>Analytical Method(s)</td> </tr> <tr> <td style="text-align: center;">Delete Method</td> <td>Total Solids by Method 2540 G-2011</td> </tr> <tr> <td style="text-align: center;">Delete Method</td> <td>EPA Method 8260 (SW-846): VOCs by GC/MS</td> </tr> </table> <p><i>Use Add Method button to list multiple methods. Enter any other methods in the field manually.</i></p>			Add Method	Analytical Method(s)	Delete Method	Total Solids by Method 2540 G-2011	Delete Method	EPA Method 8260 (SW-846): VOCs by GC/MS
Add Method	Analytical Method(s)								
Delete Method	Total Solids by Method 2540 G-2011								
Delete Method	EPA Method 8260 (SW-846): VOCs by GC/MS								

Laboratory-related Questions [View example](#) (Note: example optimized for viewing in Chrome browser)

14. Laboratory name and location	Pace Analytical National - Mount Juliet, TN		
15. Laboratory project ID	350.0515.001		
16. Were samples received in good condition and at appropriate temperature, chain-of-custody forms complete, and all samples analyzed within holding times?	Yes <input type="radio"/> No <input checked="" type="radio"/> See Below <input type="radio"/>	Comments <input style="width: 100%;" type="text"/>	
16a. Were chain-of-custody forms complete?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Comments <input style="width: 100%;" type="text"/>	

16b. Were samples received in good condition, preserved, and at appropriate temperature (VOA no headspace, appropriate pH, temperature 4° C +/- 2° for most samples)?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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16c. Were the samples analyzed within method-specified or technical holding times?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Comments <input type="text"/>
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If no, explain

Volatile organic compounds (VOCs) by EPA Method 8260B were requested on the chain of custody but were not logged in for analysis by the laboratory. As a result, VOCs were analyzed outside of the method specified holding time (14 days). 24 VOC results were detected in samples above the method detection limit and were qualified J. The remaining 301 VOC results were not detected above the method detection limits and were therefore rejected in accordance with the National Functional Guidelines. Non-detect results for VOCs are not reportable if samples are analyzed outside the method specified holding time because VOCs are both volatile and biodegradable.

17. Were all laboratory quality control procedures complied with and is data validated without qualifiers?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	See Below <input type="radio"/>	Comments <input type="text"/>
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17a. Were all calibration verification results within acceptable limits?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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17b. Were laboratory (method) blank samples free of contamination?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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17c. Are the percent recoveries and relative percent differences of matrix spike and matrix spike duplicates within quality control limits?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments No matrix spike/matrix spike duplicate results could be evaluated because spikes were not prepared using project sample matrices.
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17d. Are the laboratory control samples the same matrix as the samples and prepared the same as associated samples?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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17e. Were laboratory control samples and laboratory control sample duplicate percent recoveries and relative percent differences within laboratory control limits?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Comments <input type="text"/>
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If no, explain

Laboratory control sample percent recovery below quality control limits for Trichlorofluoromethane. 5 results qualified J-. Laboratory control sample/laboratory control sample duplicate relative percent difference outside precision limits for Trichlorofluoromethane. 5 results qualified J.

17f. Were surrogate recoveries within laboratory quality control limits?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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17g. Were the laboratory duplicate relative percent differences within data validation quality control limits?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Comments <input type="text"/>
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If no, explain

Laboratory control sample/laboratory control sample duplicate relative percent difference outside quality control limits as discussed in section 17e. No additional laboratory duplicate pairs exceeded precision limits.

18. Were the total number of lab method blanks at least 5% of the total number of samples, or as required by the method?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
19. Were the total number of lab matrix spike samples prepared at least 5% of the total number of samples, or as required by the method?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Comments <input type="text"/>

If no, explain

Matrix spike samples were not prepared using a project-specific matrix. Instead, matrix spikes were prepared using unknown matrices that are not necessarily applicable to this project.

20. Please list any project samples used for matrix spike/matrix spike duplicates.

Add Sample	Lab ID	Field Sample ID	Comments
Delete Sample			

21. Is the total number of laboratory control samples at least 5% of the total number of samples?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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Consultant/Validator Questions

[View example](#) (Note: example optimized for viewing in Chrome browser)

22. Are the detection limits appropriate for the project (i.e. at or below screening levels)?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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23. Are the reported units appropriate for the sample matrix (i.e. water results in ug/L, not mg/kg)?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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24. Do the analytical methods comply with project requirements (e.g. in the SAP, work plan, or QAPP)?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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25. Do the laboratory reports include all constituents requested to be analyzed on the chain-of-custody or under the sampling plan or other applicable document?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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26. Is the number of sample blanks (e.g. equipment, trip, or field blanks) equal to at least 10% of the total number of samples, or as otherwise required?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text" value="Field blank sample not collected in accordance with Section 2.12 of the project sampling and analysis plan."/>
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27. Are field blanks free from contamination, duplicates collected as required, and field duplicate percent differences within data validation quality control limits?	Yes <input type="radio"/>	No <input type="radio"/>	See Below <input checked="" type="radio"/>	Comments <input type="text"/>
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Please explain

27a. Were all blank samples free of analyte contamination?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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27b. Were field duplicates collected as required?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Comments <input type="text" value="No field duplicate sample collected. 1 field duplicate sample required for every 20 natural samples for this project (Table 5-1 of the sampling and analysis plan)."/>
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If no, explain

27c. Are field duplicate relative percent differences within data validation quality control limits?	Yes <input type="radio"/>	No <input type="radio"/>	Comments
			Not applicable

28. Please provide an Excel or CSV file to the DEQ project manager (via e-mail or CD) that lists all samples evaluated in this summary and lists any qualified data. Please use the following format:

Lab ID	Field Sample ID	Qualifiers	Comments (indicate whether the issue biases the results high or low)
Example 48310-2.31E	Example GW-1	R	Sample dropped in lab and unrecoverable
Example 48310-2.32D	Example GW-2		

Please use the following format for qualifiers. See EPA's National Functional Guidelines for more information on qualifiers for unique samples such as dioxins.

Qualifier	Explanation
C	Pesticide and Arochlor results confirmed with GC/MS
J-	Estimated value, may be biased low
J	Analyte identified, but concentration is estimated
J+	Estimated value, may be biased high
NJ	Tentatively identified compound
R	Sample result rejected
U	Analyte analyzed for, but not detected above quantitation limit
UJ	Analyte not detected above CRQL, but CRQL may be inaccurate
X	Pesticide and Arochlor results attempted using GC/MS, but unsuccessful

If you wish to manually enter qualified sample results, please use the table below.

Add Sample	Lab ID	Field Sample ID	Qualifiers	Comments (indicate whether the issue biases the results high or low)
Delete Sample				

29. What is the percent completeness (samples planned versus valid samples collected)?	8%	Comments
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30. Was the completeness goal met?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Comments
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If no, explain

301 out of 327 results were rejected because samples were analyzed outside of method specified holding time for VOCs in soil (14 days) and analytes were not detected about method detection limits.

31. Does all data conform to analytical methods and data quality objectives specified for this project?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Comments
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If no, explain

Results that did not conform to analytical methods and data quality objectives were rejected.

32. Other general comments or observations?

Split Samples

33. Did DEQ collect split samples?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Comments
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Print Form

Save As

Open Instructions

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Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-1 (9')_08182021	L1410346-01	1,1,1,2-Tetrachloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,1,1-Trichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,1,2,2-Tetrachloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,1,2-Trichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,1-Dichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,1-Dichloroethene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,1-Dichloropropene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,2,3-Trichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,2,3-Trichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,2,3-Trimethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,2,4-Trichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-1 (9')_08182021	L1410346-01	1,2,4-Trimethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,2-Dibromo-3-chloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,2-Dibromoethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,2-Dichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,2-Dichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,2-Dichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,3,5-Trimethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,3-Dichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,3-Dichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	1,4-Dichlorobenzene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-1 (9')_08182021	L1410346-01	2,2-Dichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Acetone	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-1 (9')_08182021	L1410346-01	Acrylonitrile	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Benzene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-1 (9')_08182021	L1410346-01	Bromobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Bromoform	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Bromomethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Carbon tetrachloride	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Chlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Chloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Chloroform	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Chloromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	cis-1,2-Dichloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	cis-1,3-Dichloropropylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-1 (9')_08182021	L1410346-01	Dibromochloromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Dichlorobromomethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Dichlorodifluoromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Diisopropyl ether	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Ethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Hexachlorobutadiene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Isopropylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Methyl ethyl ketone	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Methyl isobutyl ketone	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Methylene bromide	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Methylene chloride	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-1 (9')_08182021	L1410346-01	Methyl-tert-butyl ether	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Naphthalene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	n-Butyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	n-Propyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	o-Chlorotoluene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	p-Chlorotoluene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	p-Isopropyltoluene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-1 (9')_08182021	L1410346-01	sec-Butyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Styrene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	tert-Butyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Tetrachloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Toluene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-1 (9')_08182021	L1410346-01	trans-1,2-Dichloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	trans-1,3-Dichloropropylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Trichloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Trichlorofluoromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in sample. Result rejected in accordance with national functional guidelines. LCS recovery below QC limits. LCS/LCSD RPD outside precision limits.
TP-1 (9')_08182021	L1410346-01	Trichlorotrifluoroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Vinyl chloride	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-1 (9')_08182021	L1410346-01	Xylenes (Total)	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,1,1,2-Tetrachloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,1,1-Trichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,1,2,2-Tetrachloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,1,2-Trichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-14 (12')_08192021	L1410346-04	1,1-Dichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,1-Dichloroethene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,1-Dichloropropene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,2,3-Trichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,2,3-Trichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,2,3-Trimethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,2,4-Trichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,2,4-Trimethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,2-Dibromo-3-chloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,2-Dibromoethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,2-Dichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-14 (12')_08192021	L1410346-04	1,2-Dichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,2-Dichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,3,5-Trimethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,3-Dichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,3-Dichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	1,4-Dichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	2,2-Dichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Acetone	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-14 (12')_08192021	L1410346-04	Acrylonitrile	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Bromobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Bromoform	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-14 (12')_08192021	L1410346-04	Bromomethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Carbon tetrachloride	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Chlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Chloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Chloroform	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Chloromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	cis-1,2-Dichloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	cis-1,3-Dichloropropylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Dibromochloromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Dichlorobromomethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Dichlorodifluoromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-14 (12')_08192021	L1410346-04	Diisopropyl ether	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Ethylbenzene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-14 (12')_08192021	L1410346-04	Hexachlorobutadiene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Isopropylbenzene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-14 (12')_08192021	L1410346-04	Methyl ethyl ketone	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Methyl isobutyl ketone	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Methylene bromide	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Methylene chloride	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Methyl-tert-butyl ether	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Naphthalene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	n-Butyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	n-Propyl benzene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-14 (12')_08192021	L1410346-04	o-Chlorotoluene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	p-Chlorotoluene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	p-Isopropyltoluene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-14 (12')_08192021	L1410346-04	sec-Butyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Styrene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	tert-Butyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Tetrachloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Toluene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-14 (12')_08192021	L1410346-04	trans-1,2-Dichloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	trans-1,3-Dichloropropylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Trichloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Trichlorofluoromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in sample. Result rejected in accordance with national functional guidelines. LCS recovery below QC limits. LCS/LCSD RPD outside precision limits.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-14 (12')_08192021	L1410346-04	Trichlorotrifluoroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Vinyl chloride	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-14 (12')_08192021	L1410346-04	Xylenes (Total)	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-15 (14')_08192021	L1410346-05	1,1,1,2-Tetrachloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,1,1-Trichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,1,2,2-Tetrachloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,1,2-Trichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,1-Dichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,1-Dichloroethene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,1-Dichloropropene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,2,3-Trichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,2,3-Trichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-15 (14')_08192021	L1410346-05	1,2,3-Trimethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,2,4-Trichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,2,4-Trimethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,2-Dibromo-3-chloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,2-Dibromoethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,2-Dichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,2-Dichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,2-Dichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,3,5-Trimethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,3-Dichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	1,3-Dichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-15 (14')_08192021	L1410346-05	1,4-Dichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	2,2-Dichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Acetone	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Acrylonitrile	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Benzene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-15 (14')_08192021	L1410346-05	Bromobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Bromoform	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Bromomethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Carbon tetrachloride	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Chlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Chloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Chloroform	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-15 (14')_08192021	L1410346-05	Chloromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	cis-1,2-Dichloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	cis-1,3-Dichloropropylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Dibromochloromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Dichlorobromomethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Dichlorodifluoromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Diisopropyl ether	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Ethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Hexachlorobutadiene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Isopropylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Methyl ethyl ketone	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-15 (14')_08192021	L1410346-05	Methyl isobutyl ketone	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Methylene bromide	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Methylene chloride	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Methyl-tert-butyl ether	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Naphthalene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	n-Butyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	n-Propyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	o-Chlorotoluene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	p-Chlorotoluene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	p-Isopropyltoluene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-15 (14')_08192021	L1410346-05	sec-Butyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Styrene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-15 (14')_08192021	L1410346-05	tert-Butyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Tetrachloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Toluene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-15 (14')_08192021	L1410346-05	trans-1,2-Dichloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	trans-1,3-Dichloropropylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Trichloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Trichlorofluoromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in sample. Result rejected in accordance with national functional guidelines. LCS recovery below QC limits. LCS/LCSD RPD outside precision limits.
TP-15 (14')_08192021	L1410346-05	Trichlorotrifluoroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Vinyl chloride	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-15 (14')_08192021	L1410346-05	Xylenes (Total)	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,1,1,2-Tetrachloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-4 (13')_08182021	L1410346-02	1,1,1-Trichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,1,2,2-Tetrachloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,1,2-Trichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,1-Dichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,1-Dichloroethene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,1-Dichloropropene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,2,3-Trichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,2,3-Trichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,2,3-Trimethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,2,4-Trichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,2,4-Trimethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-4 (13')_08182021	L1410346-02	1,2-Dibromo-3-chloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,2-Dibromoethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,2-Dichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,2-Dichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,2-Dichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,3,5-Trimethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,3-Dichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,3-Dichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	1,4-Dichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	2,2-Dichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Acetone	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-4 (13')_08182021	L1410346-02	Acrylonitrile	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-4 (13')_08182021	L1410346-02	Benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Bromobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Bromoform	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Bromomethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Carbon tetrachloride	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Chlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Chloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Chloroform	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Chloromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	cis-1,2-Dichloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	cis-1,3-Dichloropropylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-4 (13')_08182021	L1410346-02	Dibromochloromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Dichlorobromomethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Dichlorodifluoromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Diisopropyl ether	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Ethylbenzene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-4 (13')_08182021	L1410346-02	Hexachlorobutadiene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Isopropylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Methyl ethyl ketone	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Methyl isobutyl ketone	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Methylene bromide	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Methylene chloride	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Methyl-tert-butyl ether	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-4 (13')_08182021	L1410346-02	Naphthalene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	n-Butyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	n-Propyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	o-Chlorotoluene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	p-Chlorotoluene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	p-Isopropyltoluene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-4 (13')_08182021	L1410346-02	sec-Butyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Styrene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	tert-Butyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Tetrachloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Toluene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-4 (13')_08182021	L1410346-02	trans-1,2-Dichloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-4 (13')_08182021	L1410346-02	trans-1,3-Dichloropropylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Trichloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Trichlorofluoromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in sample. Result rejected in accordance with national functional guidelines. LCS recovery below QC limits. LCS/LCSD RPD outside precision limits.
TP-4 (13')_08182021	L1410346-02	Trichlorotrifluoroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Vinyl chloride	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-4 (13')_08182021	L1410346-02	Xylenes (Total)	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,1,1,2-Tetrachloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,1,1-Trichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,1,2,2-Tetrachloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,1,2-Trichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,1-Dichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-6 (2')_08182021	L1410346-03	1,1-Dichloroethene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,1-Dichloropropene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,2,3-Trichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,2,3-Trichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,2,3-Trimethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,2,4-Trichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,2,4-Trimethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,2-Dibromo-3-chloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,2-Dibromoethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,2-Dichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,2-Dichloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-6 (2')_08182021	L1410346-03	1,2-Dichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,3,5-Trimethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,3-Dichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,3-Dichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	1,4-Dichlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	2,2-Dichloropropane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Acetone	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Acrylonitrile	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Benzene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-6 (2')_08182021	L1410346-03	Bromobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Bromoform	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Bromomethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-6 (2')_08182021	L1410346-03	Carbon tetrachloride	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Chlorobenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Chloroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Chloroform	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-6 (2')_08182021	L1410346-03	Chloromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	cis-1,2-Dichloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	cis-1,3-Dichloropropylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Dibromochloromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Dichlorobromomethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Dichlorodifluoromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Diisopropyl ether	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Ethylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-6 (2')_08182021	L1410346-03	Hexachlorobutadiene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Isopropylbenzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Methyl ethyl ketone	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Methyl isobutyl ketone	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Methylene bromide	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Methylene chloride	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Methyl-tert-butyl ether	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Naphthalene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	n-Butyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	n-Propyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	o-Chlorotoluene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-6 (2')_08182021	L1410346-03	p-Chlorotoluene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	p-Isopropyltoluene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-6 (2')_08182021	L1410346-03	sec-Butyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Styrene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	tert-Butyl benzene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Tetrachloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Toluene	Yes	Y	J	Sample analyzed outside method specified holding time and analyte detected in sample.
TP-6 (2')_08182021	L1410346-03	trans-1,2-Dichloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	trans-1,3-Dichloropropylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Trichloroethylene	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Trichlorofluoromethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in sample. Result rejected in accordance with national functional guidelines. LCS recovery below QC limits. LCS/LCSD RPD outside precision limits.
TP-6 (2')_08182021	L1410346-03	Trichlorotrifluoroethane	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Summary of Qualified Data - Top Soil - SDG L1410346

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Lab Sample ID	Analyte	Result Reportable ?	Analyte Detected?	Flag	Comment
TP-6 (2')_08182021	L1410346-03	Vinyl chloride	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.
TP-6 (2')_08182021	L1410346-03	Xylenes (Total)	No	N	R	Sample analyzed outside method specified holding time (14 days) and analyte not detected in the sample. Result is rejected in accordance with the national functional guidelines.

Please fill out the information below, using one form for each lab batch (one form can be used for multiple analytical methods). The form will grow and adjust, based on your responses. Please include a discussion regarding the sampling event in the report that is sent to DEQ with this form. For additional instructions, please click the Open Complete Instructions button.

[Open Complete Instructions](#)

Basic Questions [View example](#) (Note: example optimized for viewing in Chrome browser)

1. Site/Facility name	350.0515.001 Nez Perce Tribe - Long Yard Area- Blue Norht Mill - 283 Woodland Road, Kamiah, Idaho 83536		
2. Site code or facility ID (if applicable)	<input type="text"/>		
3. Release ID (if applicable)	<input type="text"/>		
4. Sample delivery group	L1399574		
5. Name of DEQ-approved sampling plan	Sampling & Analysis Plan - Limited Phase II Environmental Site Assessment		
6. Date DEQ approved the sampling plan	<input type="text" value="8/16/2021"/>	M/D/YY	
7. Name of data validator	M. Mave		
8. Phone	<input type="text" value="4065498270"/>		
9. Date validated	<input type="text" value="10/3/2021"/>	M/D/YY	

Field Collection Questions [View example](#) (Note: example optimized for viewing in Chrome browser)

10. Sample matrix	<input checked="" type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Surface water <input type="checkbox"/> Groundwater <input type="checkbox"/> Tap water <input type="checkbox"/> Air (including soil gas) <input type="checkbox"/> Other <input type="text"/>		
11. Sample collection start date	<input type="text" value="8/30/2021"/>	M/D/YY	
12. Sample collection end date	<input type="text" value="8/31/2021"/>	M/D/YY	
13. Analytical methods used <i>Use Add Method button to list multiple methods. Enter any other methods in the field manually.</i>	Add Method	Analytical Method(s)	
	Delete Method	<input type="text" value="Mercury by Method 7471A"/>	
	Delete Method	<input type="text" value="Metals by Method 6010B (ICP)"/>	
	Delete Method	<input type="text" value="Volatile Organic Compounds by Method 8260B (GC/MS)"/>	
	Delete Method	<input type="text" value="Semi-Volatile Organic Compounds by Method NWTPHDX-SGT (GC)"/>	
	Delete Method	<input type="text" value="Polychlorinated Biphenyls by Method 8082 (GC)"/>	
	Delete Method	<input type="text" value="Semi-Volatile Organic Compounds by Method 8270-SIM (GC)"/>	
	Delete Method	<input type="text" value="Total Solids by Method 2540 G-2011"/>	
	Delete Method	<input type="text" value="Volatile Organic Compounds by Method NWTPHGX"/>	

Laboratory-related Questions [View example](#) (Note: example optimized for viewing in Chrome browser)

14. Laboratory name and location	Pace Analytical National Mount Juliet, TN 37122		
15. Laboratory project ID	L1399574		

16. Were samples received in good condition and at appropriate temperature, chain-of-custody forms complete, and all samples analyzed within holding times?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	See Below <input type="radio"/>	Comments <input type="text"/>
17. Were all laboratory quality control procedures complied with and is data validated without qualifiers?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	See Below <input type="radio"/>	Comments <input type="text"/>
17a. Were all calibration verification results within acceptable limits?	Yes <input checked="" type="radio"/>	No <input type="radio"/>		Comments <input type="text"/>
17b. Were laboratory (method) blank samples free of contamination?	Yes <input type="radio"/>	No <input checked="" type="radio"/>		Comments <input type="text"/>

If no, explain

Total Chromium detected in method blank that applied to sample ID BH-ERB_08312021. Analyte not detected in sample so no records qualified. Total barium detected in method blank. No records qualified because either blank concentration less than sample method detection limit or sample concentration greater than 10 times the blank concentration.

17c. Are the percent recoveries and relative percent differences of matrix spike and matrix spike duplicates within quality control limits?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments Matrix spike/matrix spike duplicate sample results were not evaluated for any analyte except mercury (by Method 7471A) because matrix spikes were performed on samples of unknown matrix. Matrix spikes performed on unknown matrices are not applicable to project samples.
17d. Are the laboratory control samples the same matrix as the samples and prepared the same as associated samples?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
17e. Were laboratory control samples and laboratory control sample duplicate percent recoveries and relative percent differences within laboratory control limits?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Comments <input type="text"/>

If no, explain

Laboratory control sample percent recovery above quality control limits for Hexachlorobutadiene. 1 record for sample ID BH-ERB_08312021 (equipment rinseate blank) flagged J+, but the final qualifier was U because the analyte was not detected in the sample.

17f. Were surrogate recoveries within laboratory quality control limits?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
17g. Were the laboratory duplicate relative percent differences within data validation quality control limits?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
18. Were the total number of lab method blanks at least 5% of the total number of samples, or as required by the method?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>

19. Were the total number of lab matrix spike samples prepared at least 5% of the total number of samples, or as required by the method?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Comments <input type="text"/>
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If no, explain

Matrix spike/matrix spike duplicate sample results were not evaluated for any analyte except mercury (by Method 7471A) because matrix spikes were performed on samples of unknown matrix. Matrix spikes performed on unknown matrices are not applicable to project samples.

20. Please list any project samples used for matrix spike/matrix spike duplicates.

Add Sample	Lab ID	Field Sample ID	Comments
Delete Sample	L1399574-01	BH-1 (10-11)	Mercury by Method 7471A

21. Is the total number of laboratory control samples at least 5% of the total number of samples?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Comments <input type="text"/>
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If no, explain

The total number of laboratory control samples were at least 5% of the total number of samples with the exception of matrix spike samples. Matrix spike samples were only analyzed on project-specific matrices for Mercury by Method 7471A.

Consultant/Validator Questions

[View example](#) (Note: example optimized for viewing in Chrome browser)

22. Are the detection limits appropriate for the project (i.e. at or below screening levels)?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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23. Are the reported units appropriate for the sample matrix (i.e. water results in ug/L, not mg/kg)?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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24. Do the analytical methods comply with project requirements (e.g. in the SAP, work plan, or QAPP)?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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25. Do the laboratory reports include all constituents requested to be analyzed on the chain-of-custody or under the sampling plan or other applicable document?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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26. Is the number of sample blanks (e.g. equipment, trip, or field blanks) equal to at least 10% of the total number of samples, or as otherwise required?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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27. Are field blanks free from contamination, duplicates collected as required, and field duplicate percent differences within data validation quality control limits?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	See Below <input type="radio"/>	Comments <input type="text"/>
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27a. Were all blank samples free of analyte contamination?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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27b. Were field duplicates collected as required?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Comments <input type="text"/>
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If no, explain

No field duplicate sample collected.

27c. Are field duplicate relative percent differences within data validation quality control limits? Yes No Comments

28. Please provide an Excel or CSV file to the DEQ project manager (via e-mail or CD) that lists all samples evaluated in this summary and lists any qualified data. Please use the following format:

Lab ID	Field Sample ID	Qualifiers	Comments (indicate whether the issue biases the results high or low)
Example 48310-2.31E	Example GW-1	R	Sample dropped in lab and unrecoverable
Example 48310-2.32D	Example GW-2		

Please use the following format for qualifiers. See EPA's National Functional Guidelines for more information on qualifiers for unique samples such as dioxins.

Qualifier	Explanation
C	Pesticide and Arochlor results confirmed with GC/MS
J-	Estimated value, may be biased low
J	Analyte identified, but concentration is estimated
J+	Estimated value, may be biased high
NJ	Tentatively identified compound
R	Sample result rejected
U	Analyte analyzed for, but not detected above quantitation limit
UJ	Analyte not detected above CRQL, but CRQL may be inaccurate
X	Pesticide and Arochlor results attempted using GC/MS, but unsuccessful

If you wish to manually enter qualified sample results, please use the table below.

Add Sample	Lab ID	Field Sample ID	Qualifiers	Comments (indicate whether the issue biases the results high or low)
Delete Sample				

29. What is the percent completeness (samples planned versus valid samples collected)? Comments

30. Was the completeness goal met? Yes No Comments

31. Does all data conform to analytical methods and data quality objectives specified for this project? Yes No Comments

32. Other general comments or observations?

Split Samples

33. Did IDEQ collect split samples? Yes No Comments

Summary of Qualified Data - Borehole Soil - SDG L1399574

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Method	Lab ID	SDG	Analyte	Validator Qualifiers	Final Qualifiers	Comment
BH-ERB_08312021	6020	L1399574-09	L1399574	Chromium		U	Analyte detected in method blank but not in sample.
BH-1 (15-16)_08302021	6010B	L1399574-02	L1399574	Barium			Analyte detected in method blank less than sample MDL. No qualification necessary.
BH-2 (15-16)_08302021	6010B	L1399574-03	L1399574	Barium			Analyte detected in method blank less than sample MDL. No qualification necessary.
BH-3 (18-19)_08302021	6010B	L1399574-05	L1399574	Barium			Analyte detected in method blank less than sample MDL. No qualification necessary.
BH-3 (8-9)_08302021	6010B	L1399574-04	L1399574	Barium			Analyte detected in method blank less than sample MDL. No qualification necessary.
BH-4 (25)_08302021	6010B	L1399574-07	L1399574	Barium			Analyte detected in method blank less than sample MDL. No qualification necessary.
BH-4 (8-9)_08302021	6010B	L1399574-06	L1399574	Barium			Analyte detected in method blank less than sample MDL. No qualification necessary.
BH-1 (10-11)_08302021	6010B	L1399574-01	L1399574	Barium			Analyte detected in method blank, but sample concentration greater than 10 times blank. No qualification necessary.
BH-ERB_08312021	8260B	L1399574-09	L1399574	Hexachlorobutadiene	J+	U	LCS percent recovery above QC limits, result is biased high.

Please fill out the information below, using one form for each lab batch (one form can be used for multiple analytical methods). The form will grow and adjust, based on your responses. Please include a discussion regarding the sampling event in the report that is sent to DEQ with this form. For additional instructions, please click the Open Complete Instructions button.

[Open Complete Instructions](#)

Basic Questions [View example](#) (Note: example optimized for viewing in Chrome browser)

1. Site/Facility name	350.0515.001 Nez Perce Tribe - Long Yard Area- Blue Norht Mill - 283 Woodland Road, Kamiah, Idaho 83536	
2. Site code or facility ID (if applicable)		
3. Release ID (if applicable)		
4. Sample delivery group	L1399674	
5. Name of DEQ-approved sampling plan	Sampling & Analysis Plan - Limited Phase II Environmental Site Assessment	
6. Date DEQ approved the sampling plan	8/16/2021	M/D/YY
7. Name of data validator	M. Mave	
8. Phone	4065498270	
9. Date validated	10/3/2021	M/D/YY

Field Collection Questions [View example](#) (Note: example optimized for viewing in Chrome browser)

10. Sample matrix	<input type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Surface water <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Tap water <input type="checkbox"/> Air (including soil gas) <input type="checkbox"/> Other																		
11. Sample collection start date	9/1/2021	M/D/YY																	
12. Sample collection end date	9/2/2021	M/D/YY																	
13. Analytical methods used	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Add Method</th> <th>Analytical Method(s)</th> </tr> </thead> <tbody> <tr> <td>Delete Method</td> <td>Mercury by Method 7470A</td> </tr> <tr> <td>Delete Method</td> <td>Metals by Method 6020 (ICP-MS)</td> </tr> <tr> <td>Delete Method</td> <td>Volatile Organic Compounds by Method 8260B (GC/MS)</td> </tr> <tr> <td>Delete Method</td> <td>EDB/DBCP by Method 8011</td> </tr> <tr> <td>Delete Method</td> <td>Semi-Volatile Organic Compounds by Method 3511/8015 (GC)</td> </tr> <tr> <td>Delete Method</td> <td>Polychlorinated Biphenyls by Method 8082 (GC)</td> </tr> <tr> <td>Delete Method</td> <td>Semi-Volatile Organic Compounds by Method 8270-SIM (GC)</td> </tr> </tbody> </table>			Add Method	Analytical Method(s)	Delete Method	Mercury by Method 7470A	Delete Method	Metals by Method 6020 (ICP-MS)	Delete Method	Volatile Organic Compounds by Method 8260B (GC/MS)	Delete Method	EDB/DBCP by Method 8011	Delete Method	Semi-Volatile Organic Compounds by Method 3511/8015 (GC)	Delete Method	Polychlorinated Biphenyls by Method 8082 (GC)	Delete Method	Semi-Volatile Organic Compounds by Method 8270-SIM (GC)
Add Method	Analytical Method(s)																		
Delete Method	Mercury by Method 7470A																		
Delete Method	Metals by Method 6020 (ICP-MS)																		
Delete Method	Volatile Organic Compounds by Method 8260B (GC/MS)																		
Delete Method	EDB/DBCP by Method 8011																		
Delete Method	Semi-Volatile Organic Compounds by Method 3511/8015 (GC)																		
Delete Method	Polychlorinated Biphenyls by Method 8082 (GC)																		
Delete Method	Semi-Volatile Organic Compounds by Method 8270-SIM (GC)																		

Laboratory-related Questions [View example](#) (Note: example optimized for viewing in Chrome browser)

14. Laboratory name and location	Pace Analytical National Mount Juliet, TN 37122
15. Laboratory project ID	L1399674

16. Were samples received in good condition and at appropriate temperature, chain-of-custody forms complete, and all samples analyzed within holding times?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	See Below <input type="radio"/>	Comments <input type="text"/>
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17. Were all laboratory quality control procedures complied with and is data validated without qualifiers?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	See Below <input type="radio"/>	Comments <input type="text"/>
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17a. Were all calibration verification results within acceptable limits?	Yes <input checked="" type="radio"/>	No <input type="radio"/>		Comments <input type="text"/>
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17b. Were laboratory (method) blank samples free of contamination?	Yes <input checked="" type="radio"/>	No <input type="radio"/>		Comments <input type="text"/>
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17c. Are the percent recoveries and relative percent differences of matrix spike and matrix spike duplicates within quality control limits?	Yes <input checked="" type="radio"/>	No <input type="radio"/>		Comments No matrix spike/matrix spike duplicate sample results were evaluated because all matrix spikes were performed on samples of unknown matrix. Therefore, matrix spike results are not applicable to project samples.
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17d. Are the laboratory control samples the same matrix as the samples and prepared the same as associated samples?	Yes <input checked="" type="radio"/>	No <input type="radio"/>		Comments <input type="text"/>
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17e. Were laboratory control samples and laboratory control sample duplicate percent recoveries and relative percent differences within laboratory control limits?	Yes <input type="radio"/>	No <input checked="" type="radio"/>		Comments <input type="text"/>
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If no, explain

Laboratory control sample/laboratory control sample duplicate relative percent difference outside precision limits for trichloroethylene. 1 records qualified J.

17f. Were surrogate recoveries within laboratory quality control limits?	Yes <input type="radio"/>	No <input checked="" type="radio"/>		Comments <input type="text"/>
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If no, explain. Note: If surrogate sampling was conducted on samples not related to the project, please explain that here.

1 of 3 surrogate recoveries for samples MW-1 and MW-2 outside quality control limits for method 8270C SIM. No results qualified because 2 of 3 surrogate percent recoveries were within quality control limits.

17g. Were the laboratory duplicate relative percent differences within data validation quality control limits?	Yes <input type="radio"/>	No <input checked="" type="radio"/>		Comments <input type="text"/>
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If no, explain

As discussed in Section 17e, laboratory control sample/laboratory control sample duplicate relative percent difference outside precision limits for trichloroethylene. 1 records qualified J.

18. Were the total number of lab method blanks at least 5% of the total number of samples, or as required by the method?	Yes <input checked="" type="radio"/>	No <input type="radio"/>		Comments <input type="text"/>
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19. Were the total number of lab matrix spike samples prepared at least 5% of the total number of samples, or as required by the method?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Comments <input type="text"/>
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If no, explain

No matrix spike/matrix spike duplicate sample results were evaluated because all matrix spikes were performed on samples of unknown matrix. Therefore, matrix spike results are not applicable to project samples.

20. Please list any project samples used for matrix spike/matrix spike duplicates.

Add Sample	Lab ID	Field Sample ID	Comments
Delete Sample	NA		

21. Is the total number of laboratory control samples at least 5% of the total number of samples?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Comments <input type="text"/>
---	------------------------------	--	----------------------------------

If no, explain

The total number of laboratory control samples were at least 5% of the total number of samples with the exception of matrix spike samples. No matrix spike samples were analyzed on project-specific matrices.

Consultant/Validator Questions

[View example](#) (Note: example optimized for viewing in Chrome browser)

22. Are the detection limits appropriate for the project (i.e. at or below screening levels)?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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23. Are the reported units appropriate for the sample matrix (i.e. water results in ug/L, not mg/kg)?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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24. Do the analytical methods comply with project requirements (e.g. in the SAP, work plan, or QAPP)?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
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25. Do the laboratory reports include all constituents requested to be analyzed on the chain-of-custody or under the sampling plan or other applicable document?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
--	---	-----------------------------	----------------------------------

26. Is the number of sample blanks (e.g. equipment, trip, or field blanks) equal to at least 10% of the total number of samples, or as otherwise required?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
--	---	-----------------------------	----------------------------------

27. Are field blanks free from contamination, duplicates collected as required, and field duplicate percent differences within data validation quality control limits?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	See Below <input type="radio"/>	Comments <input type="text"/>
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27a. Were all blank samples free of analyte contamination?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Comments <input type="text"/>
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If no, explain

Dichlorobromomethane and chloroform (analyzed by method 8260B) detected in trip blank. No results qualified because analytes were not detected in project samples.

27b. Were field duplicates collected as required?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Comments <input type="text"/>
---	---	-----------------------------	----------------------------------

27c. Are field duplicate relative percent differences within data validation quality control limits? Yes No Comments

28. Please provide an Excel or CSV file to the DEQ project manager (via e-mail or CD) that lists all samples evaluated in this summary and lists any qualified data. Please use the following format:

Lab ID	Field Sample ID	Qualifiers	Comments (indicate whether the issue biases the results high or low)
Example 48310-2.31E	Example GW-1	R	Sample dropped in lab and unrecoverable
Example 48310-2.32D	Example GW-2		

Please use the following format for qualifiers. See EPA's National Functional Guidelines for more information on qualifiers for unique samples such as dioxins.

Qualifier	Explanation
C	Pesticide and Arochlor results confirmed with GC/MS
J-	Estimated value, may be biased low
J	Analyte identified, but concentration is estimated
J+	Estimated value, may be biased high
NJ	Tentatively identified compound
R	Sample result rejected
U	Analyte analyzed for, but not detected above quantitation limit
UJ	Analyte not detected above CRQL, but CRQL may be inaccurate
X	Pesticide and Arochlor results attempted using GC/MS, but unsuccessful

If you wish to manually enter qualified sample results, please use the table below.

Add Sample	Lab ID	Field Sample ID	Qualifiers	Comments (indicate whether the issue biases the results high or low)
Delete Sample				

29. What is the percent completeness (samples planned versus valid samples collected)? 100 Comments

30. Was the completeness goal met? Yes No Comments

31. Does all data conform to analytical methods and data quality objectives specified for this project? Yes No Comments

32. Other general comments or observations?

Split Samples

33. Did IDEQ collect split samples? Yes No Comments

Summary of Qualified Data - Groundwater - SDG L1399674

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

Kamiah, Idaho 83536

Sample ID	Method	Lab ID	SDG	Analyte	Validator Qualifiers	Final Qualifiers	Comment
MW-5_09012021	8260B	L1399674-01	L1399674	Trichloroethylene	J	UJ	LCS duplicate RPD outside of QC limits.
MW-1_09022021	8260B	L1399674-05	L1399674	Chloroform		U	Analyte detected in trip blank but not in sample.
MW-1_09022021	8260B	L1399674-05	L1399674	Dichlorobromomethane		U	Analyte detected in trip blank but not in sample.
MW-2_09022021	8260B	L1399674-06	L1399674	Chloroform		U	Analyte detected in trip blank but not in sample.
MW-2_09022021	8260B	L1399674-06	L1399674	Dichlorobromomethane		U	Analyte detected in trip blank but not in sample.
MW-3_09012021	8260B	L1399674-02	L1399674	Chloroform		U	Analyte detected in trip blank but not in sample.
MW-3_09012021	8260B	L1399674-02	L1399674	Dichlorobromomethane		U	Analyte detected in trip blank but not in sample.
MW-4_09012021	8260B	L1399674-03	L1399674	Chloroform		U	Analyte detected in trip blank but not in sample.
MW-4_09012021	8260B	L1399674-03	L1399674	Dichlorobromomethane		U	Analyte detected in trip blank but not in sample.
MW-5_09012021	8260B	L1399674-01	L1399674	Chloroform		U	Analyte detected in trip blank but not in sample.
MW-5_09012021	8260B	L1399674-01	L1399674	Dichlorobromomethane		U	Analyte detected in trip blank but not in sample.
MW-ERB_09012021	8260B	L1399674-04	L1399674	Chloroform		U	Analyte detected in trip blank but not in sample.
MW-ERB_09012021	8260B	L1399674-04	L1399674	Dichlorobromomethane		U	Analyte detected in trip blank but not in sample.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	1-Methylnaphthalene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	2-Chloronaphthalene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	2-Methylnaphthalene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	Acenaphthene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	method	L1399674-05	L1399674	Acenaphthylene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	Anthracene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	Benzo(a)anthracene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	Benzo(a)pyrene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	Benzo(b)fluoranthene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	Benzo(g,h,i)perylene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	Benzo(k)fluoranthene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	Chrysene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	Dibenzo(a,h)anthracene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	Fluoranthene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	Fluorene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	Indeno(1,2,3-cd)pyrene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.

Summary of Qualified Data - Groundwater - SDG L1399674

350.0515.001 Nez Perce Tribe - Long Yard Area - Blue North Mill

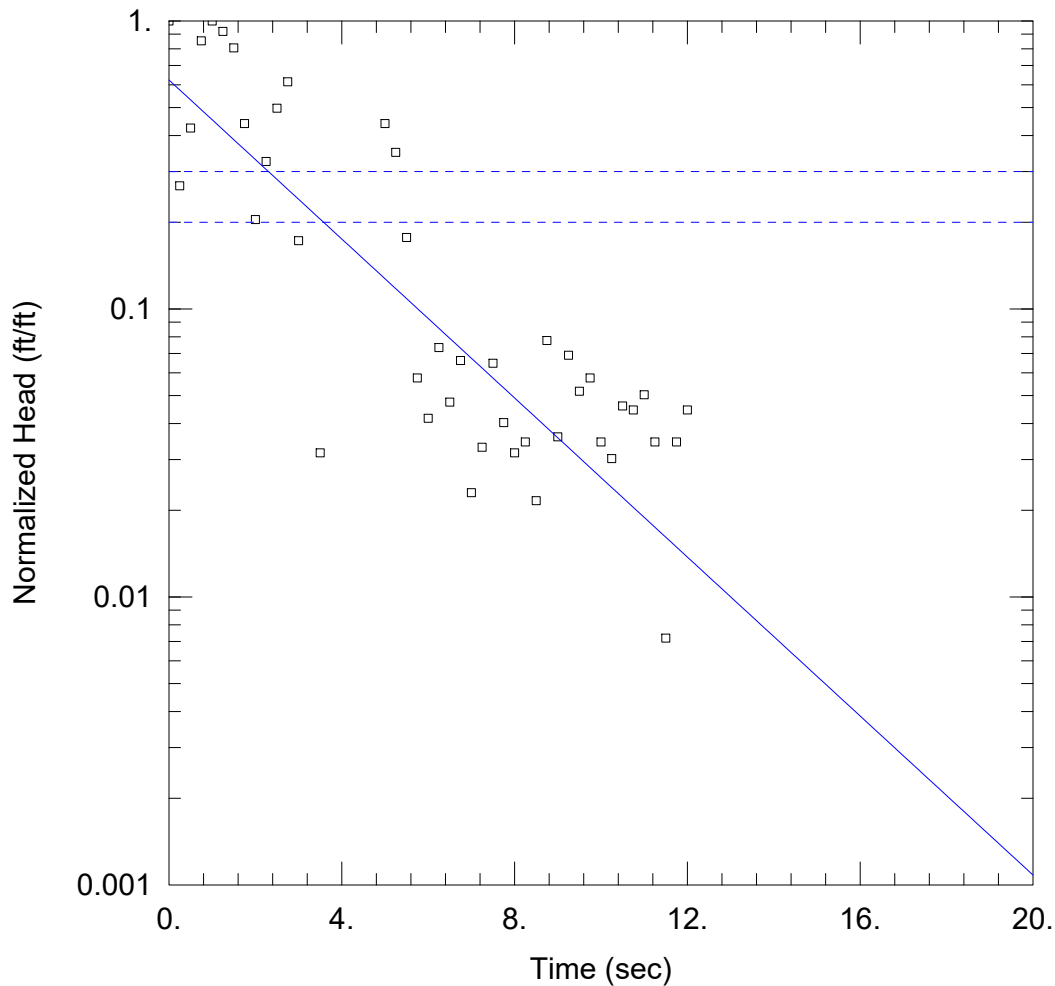
Kamiah, Idaho 83536

Sample ID	Method	Lab ID	SDG	Analyte	Validator Qualifiers	Final Qualifiers	Comment
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	Naphthalene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	Phenanthrene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-1_09022021	8270C_SIM	L1399674-05	L1399674	Pyrene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	1-Methylnaphthalene			1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	2-Chloronaphthalene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	2-Methylnaphthalene			1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Acenaphthene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Acenaphthylene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Anthracene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Benzo(a)anthracene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Benzo(a)pyrene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Benzo(b)fluoranthene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Benzo(g,h,i)perylene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Benzo(k)fluoranthene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Chrysene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Dibenzo(a,h)anthracene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Fluoranthene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Fluorene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Indeno(1,2,3-cd)pyrene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Naphthalene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Phenanthrene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.
MW-2_09022021	8270C_SIM	L1399674-06	L1399674	Pyrene		U	1 of 3 surrogate recoveries outside QC limits. No qualification required because 2 of 3 surrogates within QC limits.

APPENDIX E

Aquifer Test Results





MW-3

Data Set: Z:\...\MW-3 slug in 1.aqt
 Date: 10/04/21

Time: 08:55:09

PROJECT INFORMATION

Company: NewFields
 Client: Nez Perce Tribe
 Project: 350.0515.000
 Location: Blue North Mill
 Test Well: MW-3
 Test Date: 9/1/21

AQUIFER DATA

Saturated Thickness: 60 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-3 slug in 1)

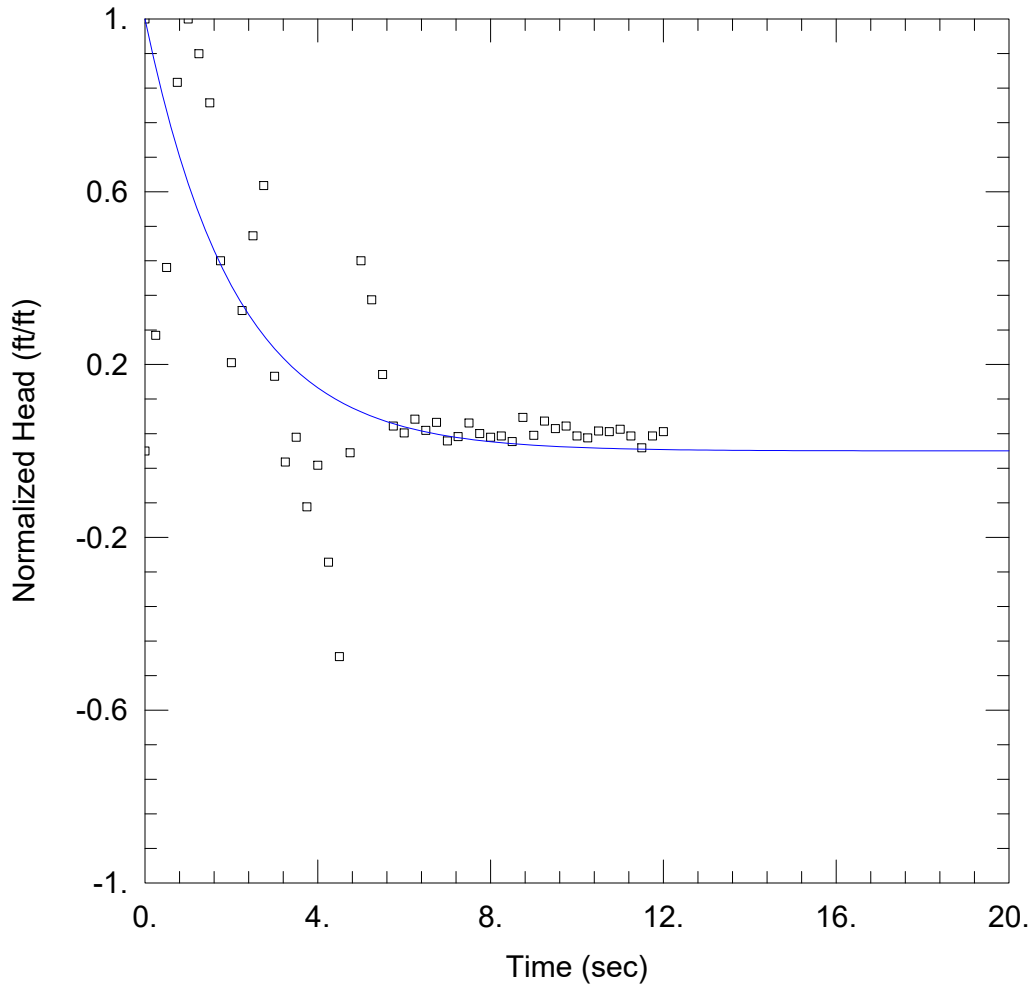
Initial Displacement: 0.695 ft
 Total Well Penetration Depth: 7.79 ft
 Casing Radius: 0.08333 ft

Static Water Column Height: 7.79 ft
 Screen Length: 7.79 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
 K = 127 ft/day

Solution Method: Bouwer-Rice
 y0 = 0.4332 ft



MW-3

Data Set: Z:\...\MW-3 slug in 1.aqt
 Date: 10/04/21

Time: 08:53:42

PROJECT INFORMATION

Company: NewFields
 Client: Nez Perce Tribe
 Project: 350.0515.000
 Location: Blue North Mill
 Test Well: MW-3
 Test Date: 9/1/21

AQUIFER DATA

Saturated Thickness: 60 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-3 slug in 1)

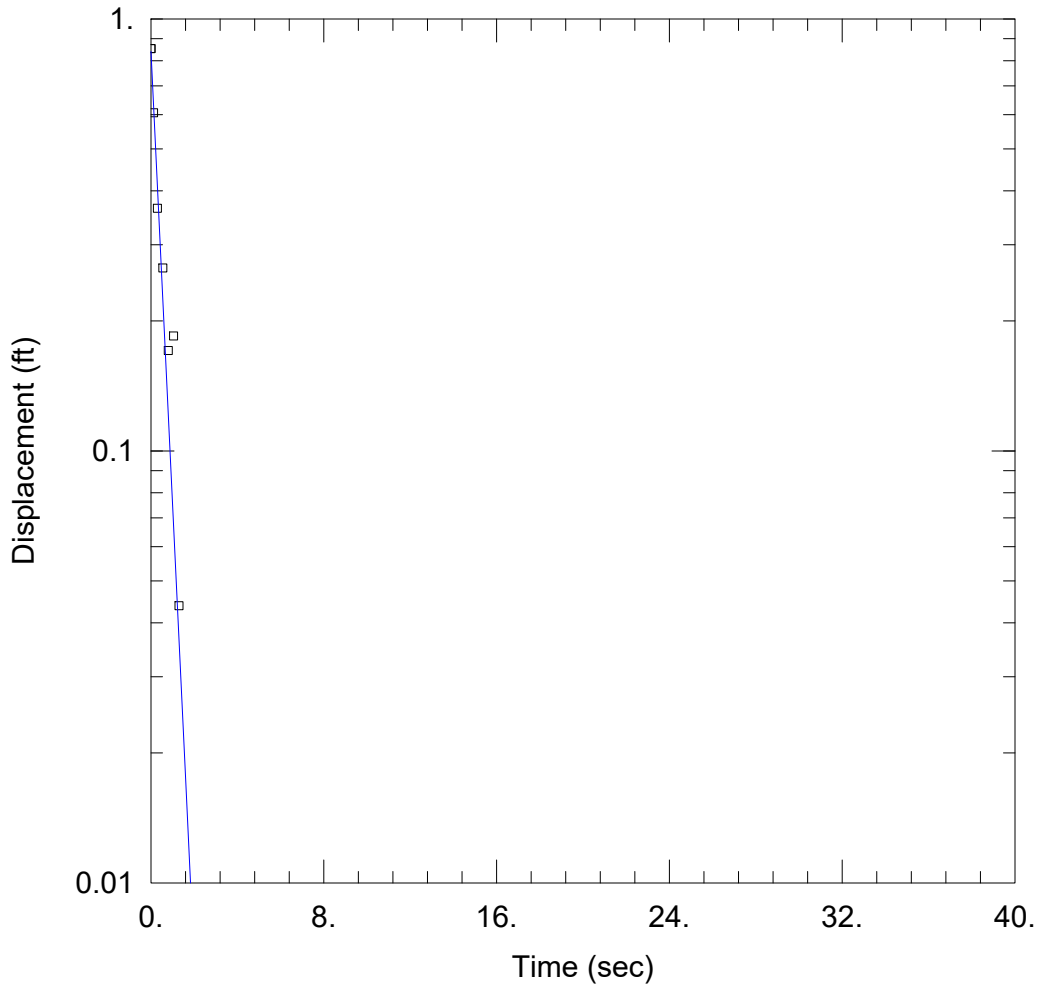
Initial Displacement: 0.695 ft
 Total Well Penetration Depth: 7.79 ft
 Casing Radius: 0.08333 ft

Static Water Column Height: 7.79 ft
 Screen Length: 7.79 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
 K = 56.49 ft/day

Solution Method: Springer-Gelhar
 Le = 0.1 ft



WELL TEST ANALYSIS

Data Set: Z:\...\MW-3 slug in 2.aqt
 Date: 10/04/21

Time: 08:55:53

PROJECT INFORMATION

Company: NewFields
 Client: Nez Perce Tribe
 Project: 350.0515.002
 Location: Kamiah, ID
 Test Well: MW-3
 Test Date: 9/2/2021

AQUIFER DATA

Saturated Thickness: 60. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-3 slug in 2)

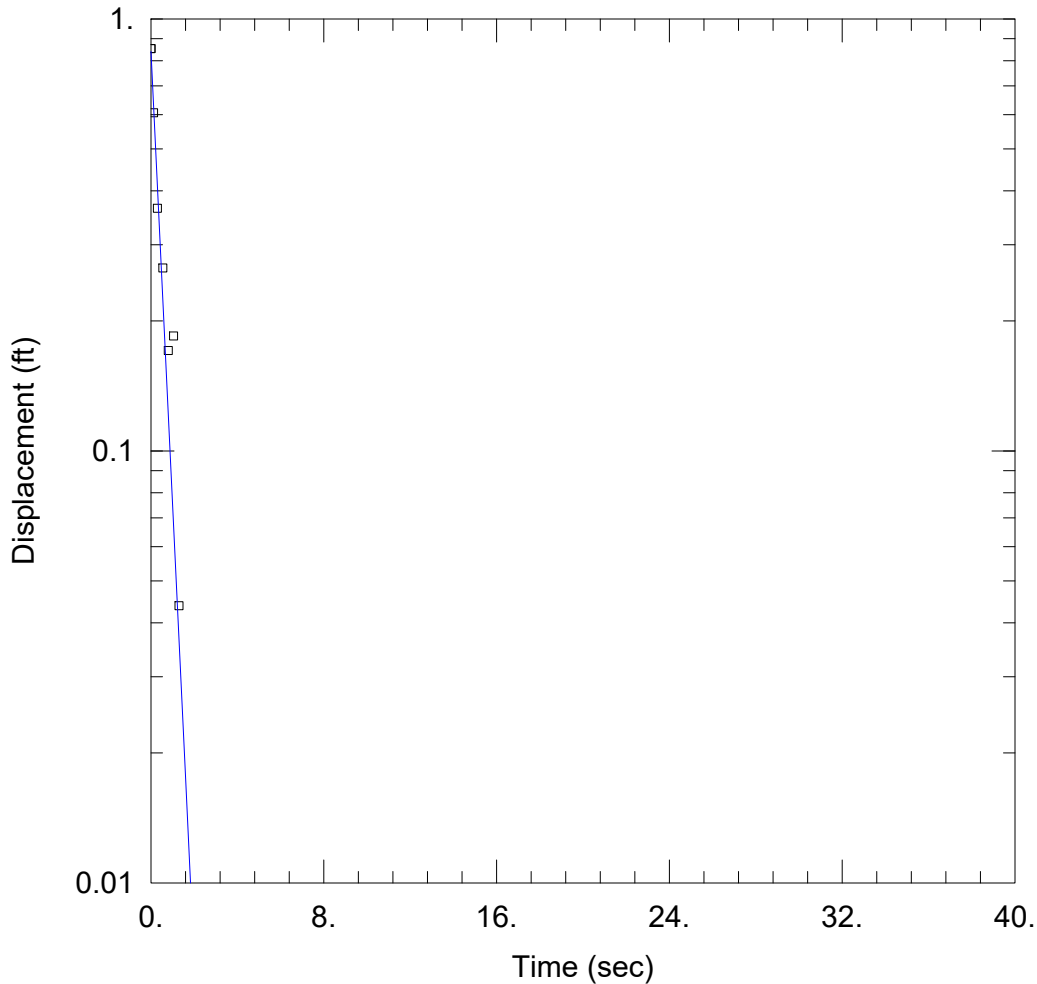
Initial Displacement: 0.8535 ft
 Total Well Penetration Depth: 7.79 ft
 Casing Radius: 0.08333 ft

Static Water Column Height: 7.79 ft
 Screen Length: 7.79 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 K = 284.3 ft/day

Solution Method: Bouwer-Rice
 y0 = 0.8408 ft



WELL TEST ANALYSIS

Data Set: Z:\...\MW-3 slug in 2.aqt
 Date: 10/04/21

Time: 08:56:31

PROJECT INFORMATION

Company: NewFields
 Client: Nez Perce Tribe
 Project: 350.0515.002
 Location: Kamiah, ID
 Test Well: MW-3
 Test Date: 9/2/2021

AQUIFER DATA

Saturated Thickness: 60. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-3 slug in 2)

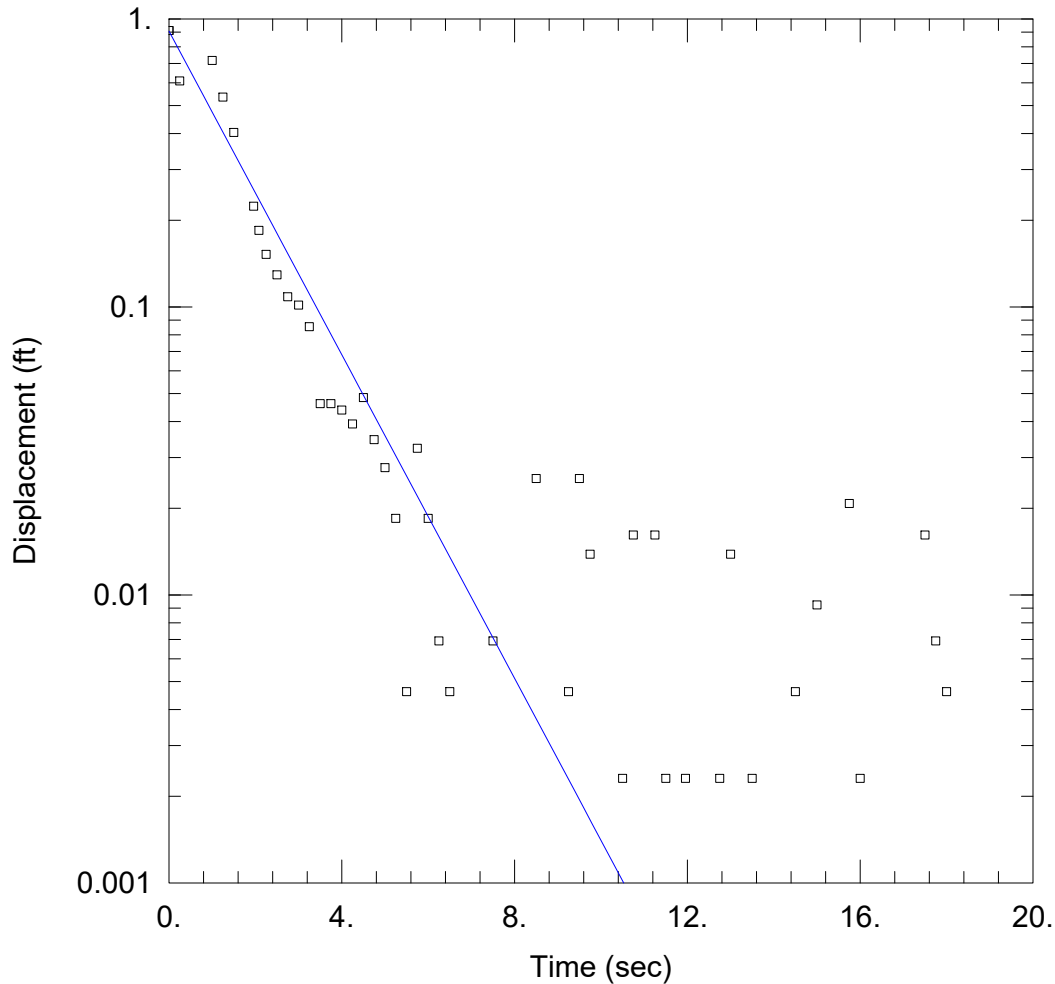
Initial Displacement: 0.8535 ft
 Total Well Penetration Depth: 7.79 ft
 Casing Radius: 0.08333 ft

Static Water Column Height: 7.79 ft
 Screen Length: 7.79 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 K = 427.3 ft/day

Solution Method: Hvorslev
 y0 = 0.8406 ft



WELL TEST ANALYSIS

Data Set: Z:\...\MW-3 slug out.aqt
 Date: 10/04/21

Time: 09:19:08

PROJECT INFORMATION

Company: NewFields
 Client: Nez Perce Tribe
 Project: 350.0515.002
 Location: Kamiah, ID
 Test Well: MW-3
 Test Date: 9/2/2021

AQUIFER DATA

Saturated Thickness: 60 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-3 slug out)

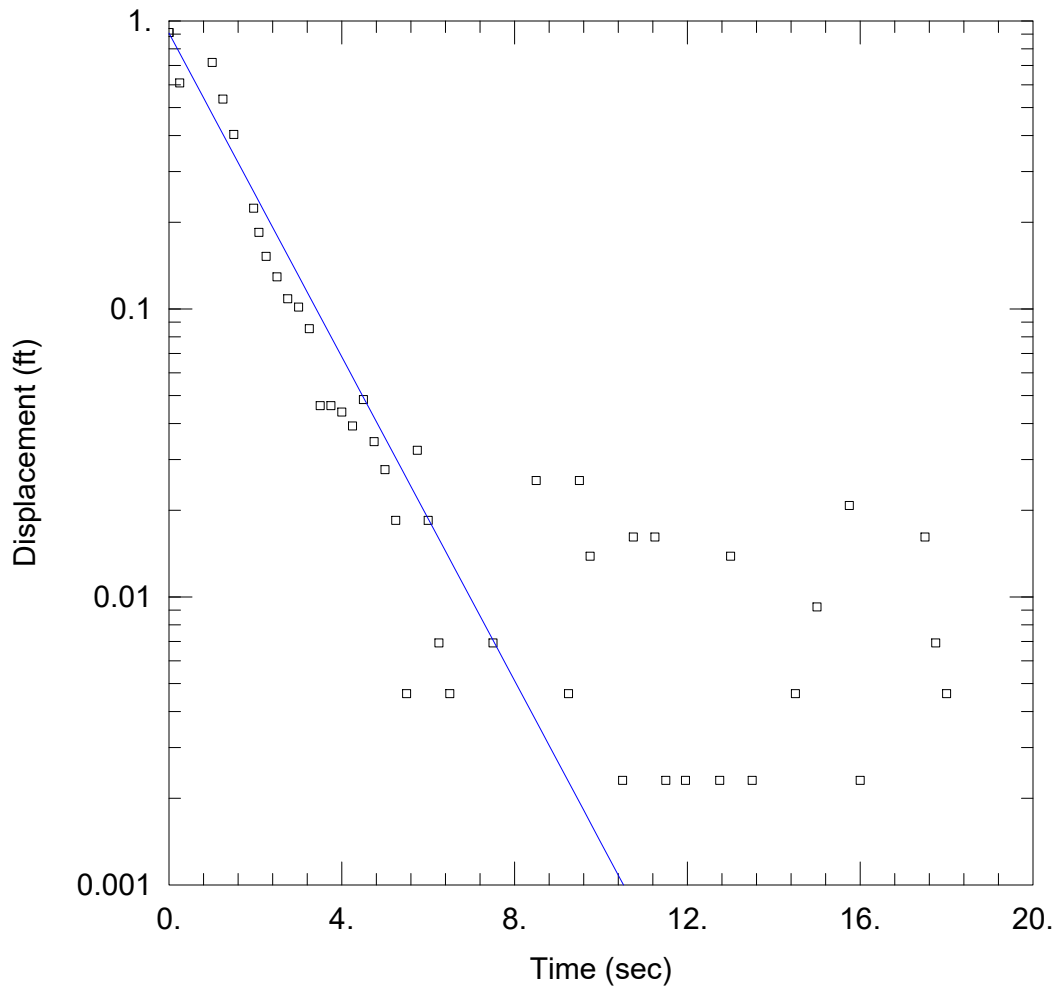
Initial Displacement: 0.9111 ft
 Total Well Penetration Depth: 7.79 ft
 Casing Radius: 0.08333 ft

Static Water Column Height: 7.79 ft
 Screen Length: 7.79 ft
 Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
 K = 76.04 ft/day

Solution Method: Bouwer-Rice
 y0 = 0.9068 ft



WELL TEST ANALYSIS

Data Set: Z:\...\MW-3 slug out.aqt
 Date: 10/04/21

Time: 09:18:27

PROJECT INFORMATION

Company: NewFields
 Client: Nez Perce Tribe
 Project: 350.0515.002
 Location: Kamiah, ID
 Test Well: MW-3
 Test Date: 9/2/2021

AQUIFER DATA

Saturated Thickness: 60. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-3 slug out)

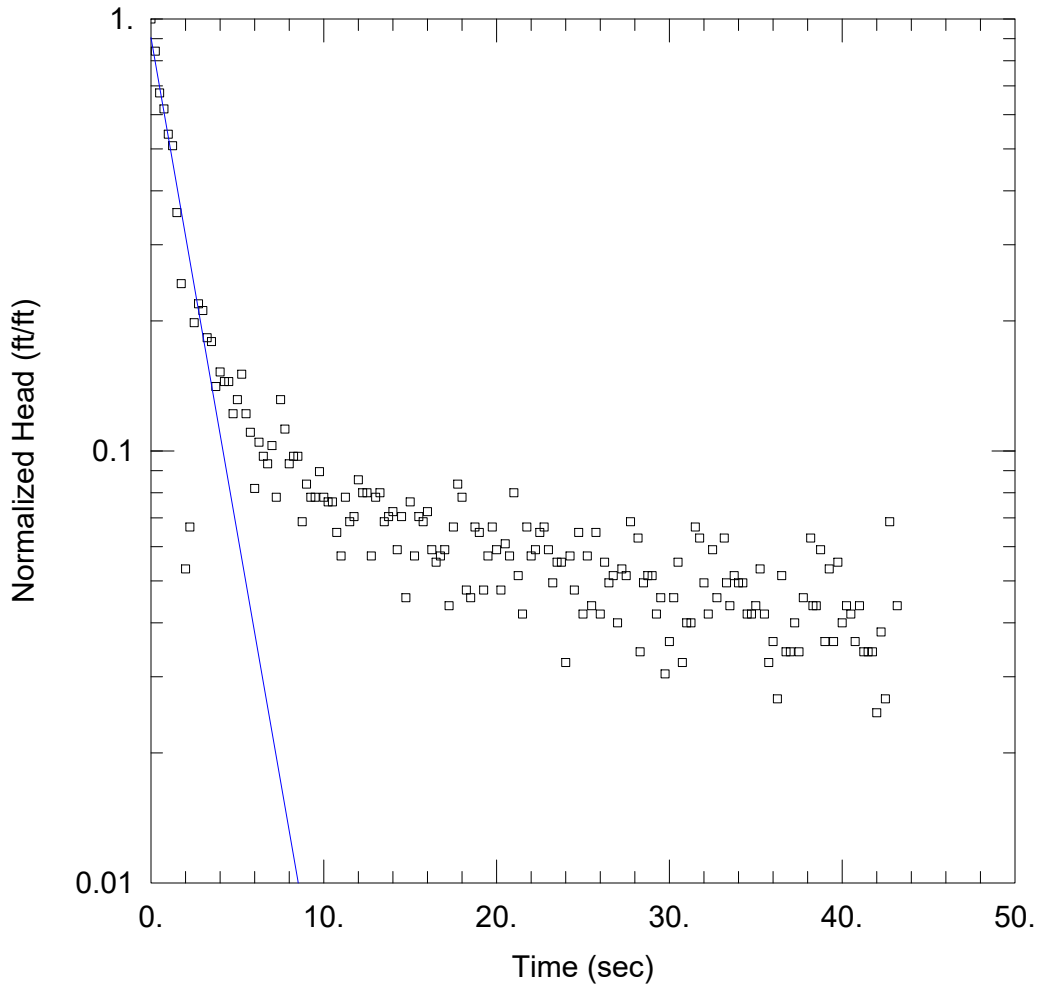
Initial Displacement: 0.9111 ft
 Total Well Penetration Depth: 7.79 ft
 Casing Radius: 0.08333 ft

Static Water Column Height: 7.79 ft
 Screen Length: 7.79 ft
 Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
 K = 114.4 ft/day

Solution Method: Hvorslev
 y0 = 0.9071 ft



WELL TEST ANALYSIS

Data Set: Z:\...\MW-4 slug in.aqt
 Date: 10/04/21

Time: 09:20:14

PROJECT INFORMATION

Company: NewFields
 Client: Nez Perce Tribe
 Project: 350.0515.002
 Location: Kamiah, ID
 Test Well: MW-4 (slug in)
 Test Date: 9/2/2021

AQUIFER DATA

Saturated Thickness: 60 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (MW-4)

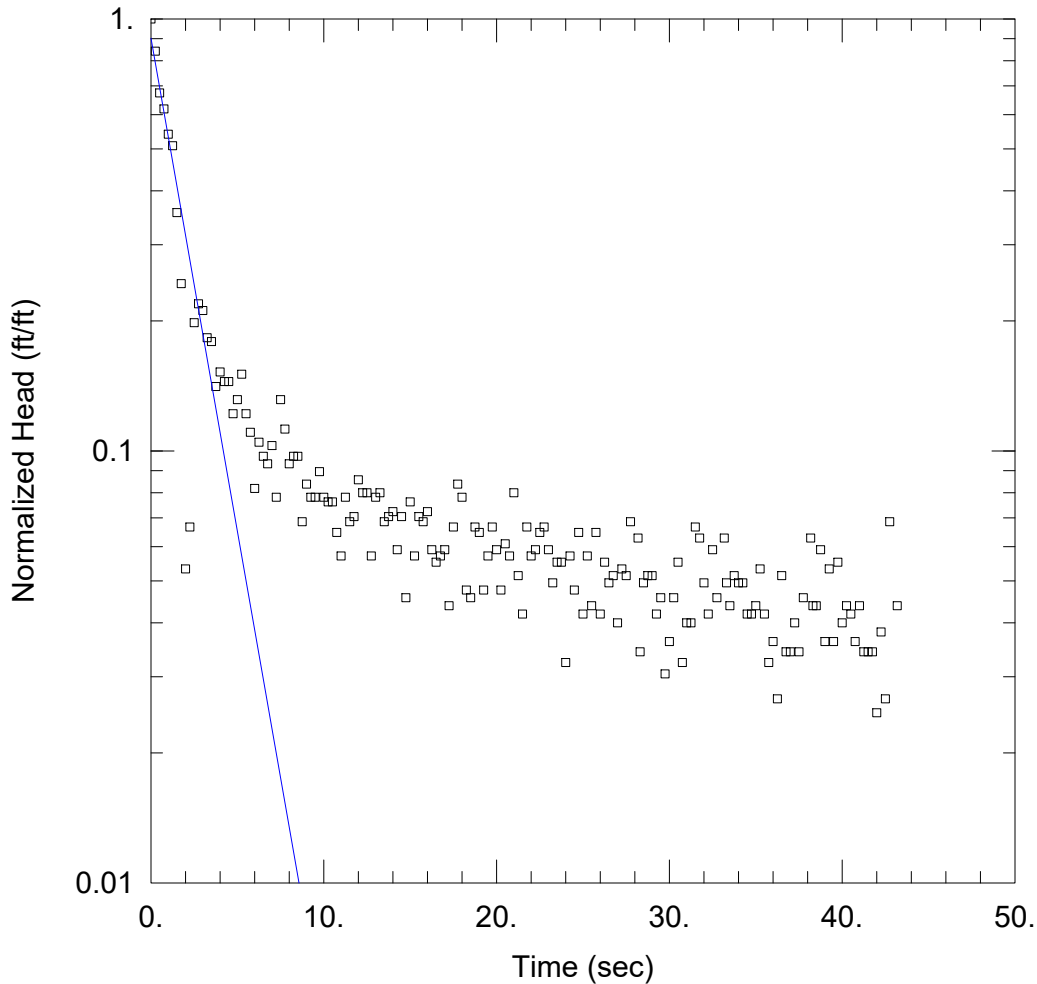
Initial Displacement: 1.211 ft
 Total Well Penetration Depth: 9.23 ft
 Casing Radius: 0.08333 ft

Static Water Column Height: 9.23 ft
 Screen Length: 9.23 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0

SOLUTION

Aquifer Model: Unconfined
 K = 54.92 ft/day

Solution Method: Bower-Rice
 y_0 = 1.096 ft



WELL TEST ANALYSIS

Data Set: Z:\...\MW-4 slug in.aqt
 Date: 10/04/21

Time: 09:20:58

PROJECT INFORMATION

Company: NewFields
 Client: Nez Perce Tribe
 Project: 350.0515.002
 Location: Kamiah, ID
 Test Well: MW-4 (slug in)
 Test Date: 9/2/2021

AQUIFER DATA

Saturated Thickness: 60. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-4)

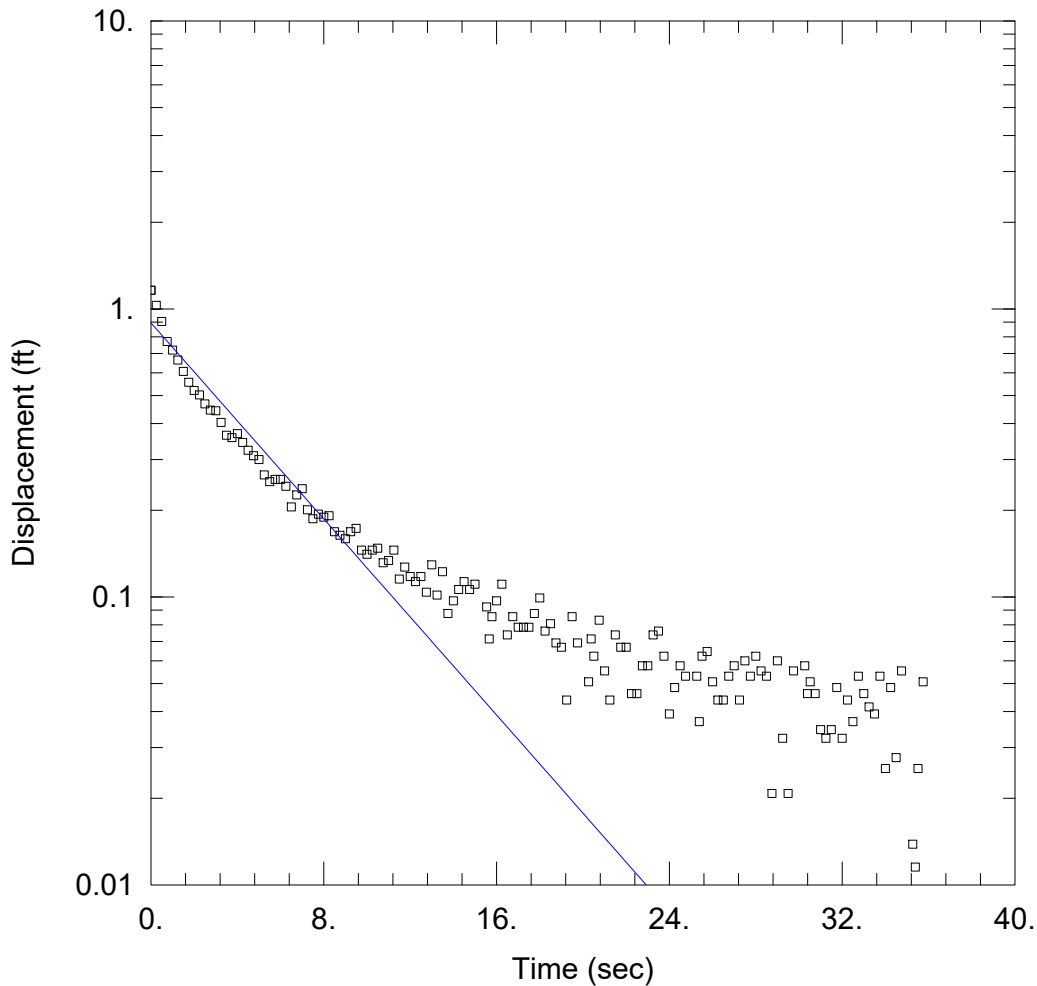
Initial Displacement: 1.211 ft
 Total Well Penetration Depth: 9.23 ft
 Casing Radius: 0.08333 ft

Static Water Column Height: 9.23 ft
 Screen Length: 9.23 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 K = 81.34 ft/day

Solution Method: Hvorslev
 y0 = 1.093 ft



WELL TEST ANALYSIS

Data Set: Z:\...\MW-4 slug out 1.aqt
 Date: 10/04/21

Time: 09:23:07

PROJECT INFORMATION

Company: NewFields
 Client: Nez Perce Tribe
 Project: 350.0515.002
 Location: Kamiah, ID
 Test Well: MW-4 (slug out 1)
 Test Date: 9/2/2021

AQUIFER DATA

Saturated Thickness: 60 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-4)

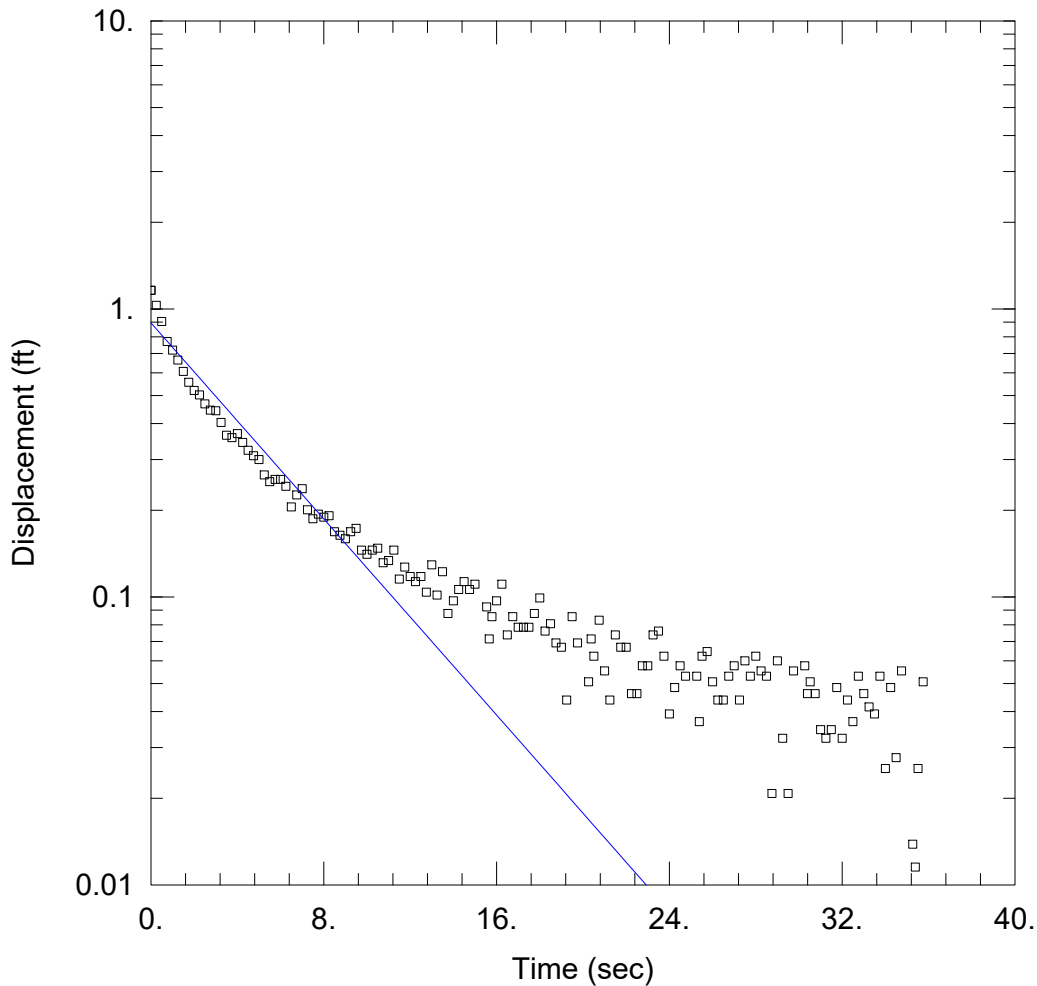
Initial Displacement: 1.16 ft
 Total Well Penetration Depth: 69.23 ft
 Casing Radius: 0.08333 ft

Static Water Column Height: 9.23 ft
 Screen Length: 9.23 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0

SOLUTION

Aquifer Model: Unconfined
 K = 31.25 ft/day

Solution Method: Bower-Rice
 y0 = 0.8943 ft



WELL TEST ANALYSIS

Data Set: Z:\...\MW-4 slug out 1.aqt
 Date: 10/04/21

Time: 09:22:21

PROJECT INFORMATION

Company: NewFields
 Client: Nez Perce Tribe
 Project: 350.0515.002
 Location: Kamiah, ID
 Test Well: MW-4 (slug out 1)
 Test Date: 9/2/2021

AQUIFER DATA

Saturated Thickness: 60. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-4)

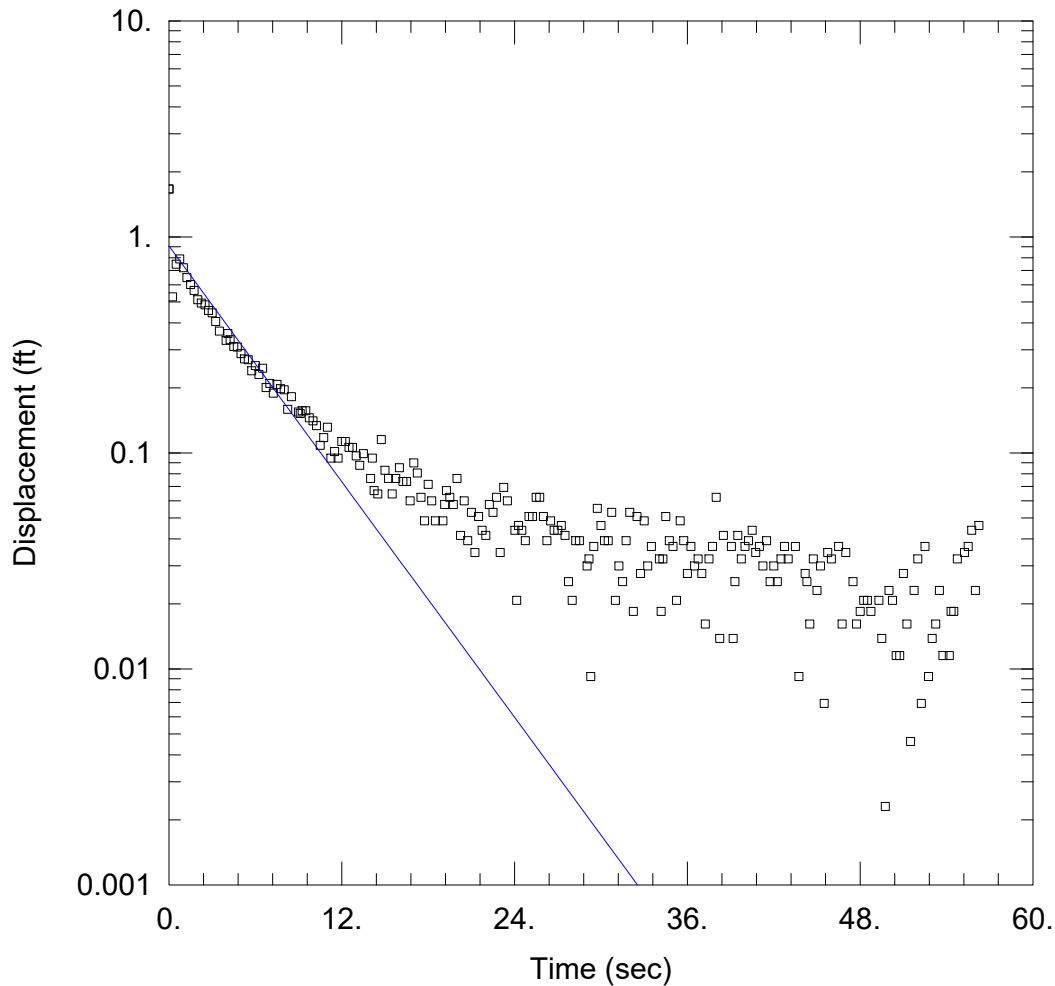
Initial Displacement: 1.16 ft
 Total Well Penetration Depth: 69.23 ft
 Casing Radius: 0.08333 ft

Static Water Column Height: 9.23 ft
 Screen Length: 9.23 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 K = 34.73 ft/day

Solution Method: Hvorslev
 y0 = 0.8943 ft



WELL TEST ANALYSIS

Data Set: Z:\...\MW-4 slug out 2.aqt
 Date: 10/04/21

Time: 09:23:54

PROJECT INFORMATION

Company: NewFields
 Client: Nez Perce Tribe
 Project: 350.0515.002
 Location: Kamiah, ID
 Test Well: MW-4 (slug out 2)
 Test Date: 9/2/2021

AQUIFER DATA

Saturated Thickness: 60 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-4)

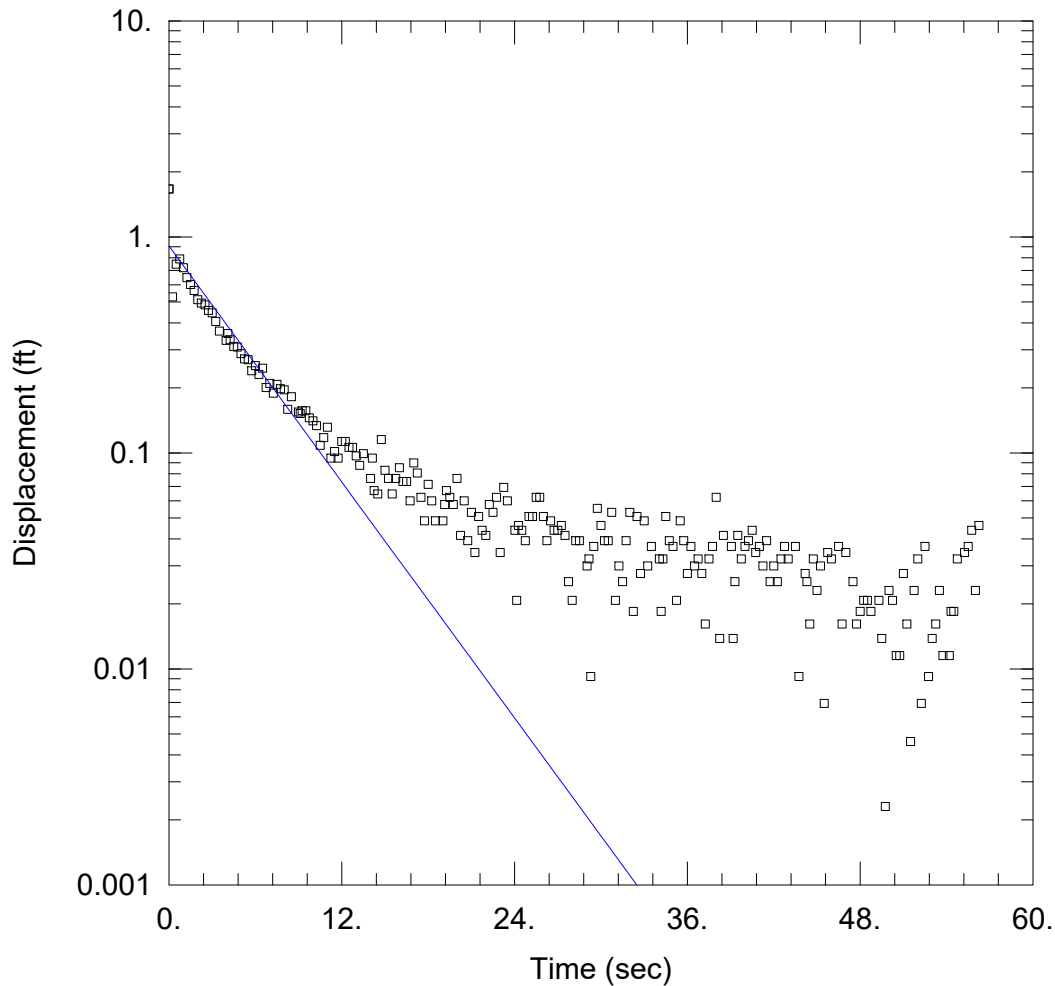
Initial Displacement: 1.668 ft
 Total Well Penetration Depth: 9.23 ft
 Casing Radius: 0.08333 ft

Static Water Column Height: 9.23 ft
 Screen Length: 9.23 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0

SOLUTION

Aquifer Model: Unconfined
 K = 32.39 ft/day

Solution Method: Hvorslev
 y0 = 0.9074 ft



WELL TEST ANALYSIS

Data Set: Z:\...\MW-4 slug out 2.aqt
 Date: 10/04/21

Time: 09:24:31

PROJECT INFORMATION

Company: NewFields
 Client: Nez Perce Tribe
 Project: 350.0515.002
 Location: Kamiah, ID
 Test Well: MW-4 (slug out 2)
 Test Date: 9/2/2021

AQUIFER DATA

Saturated Thickness: 60. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-4)

Initial Displacement: 1.668 ft
 Total Well Penetration Depth: 9.23 ft
 Casing Radius: 0.08333 ft

Static Water Column Height: 9.23 ft
 Screen Length: 9.23 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 K = 21.78 ft/day

Solution Method: Bower-Rice
 y0 = 0.9081 ft