Phase II Environmental Site Assessment

130 East Sprague Avenue
Spokane, Washington 99202

EPA Cooperative Agreement Number:
BF-01J65801-1

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Sign-off Sheet

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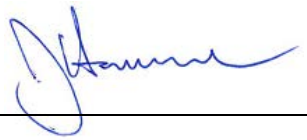
Prepared by 

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Acronyms and Abbreviations

ABCA	Analysis of Brownfield Cleanup Alternatives
ACM	Asbestos Containing Material
AHERA	Asbestos Hazard Emergency Response Act
BER	Business Environmental Risk
bgs	Below ground surface
CFR	Code of Federal Regulation
City	City of Spokane
cPAH	Carcinogenic PAH
CUL	Cleanup Levels
DRO	Diesel Range Organics
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
ft^2	Square foot
Geophysical Survey	Geophysical Survey LLC
GRO	Gasoline Range Organics
HID	High-intensity Discharge
LBP	Lead-based Paint
mg/kg	Milligrams per kilogram
MTCA	Model Toxics Control Act
NVL	NVL Laboratories, Inc.
NWTPH	Northwest Total Petroleum Hydrocarbon
OSHA	Occupational Safety and Health Administration
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyls
PID	Photoionization Detector
QAPP	Quality Assurance Protection Plan
QA/QC	Quality Assurance/Quality Control
RBM	Regulated Building Material
REC	Recognized Environmental Condition
RCRA	Resource Conservation and Recovery Act
RRO	Residual Range Organics
SAP	Sampling and Analysis Plan
SIM	Selective Ion Monitoring
SOP	Standard Operating Procedure
Stantec	Stantec Consulting Services Inc.

SVOC	Semi-Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TEF	Toxicity Equivalency Factor
TEQ	Toxicity Equivalency Quotient
TSCA	Toxic Substances Control Act
UST	Underground Storage Tank
VOC	Volatile Organic Compound
WAC	Washington Administrative Code

1.0 INTRODUCTION

On behalf of the City of Spokane (the "City"), Stantec Consulting Services Inc. (Stantec) has completed a Phase II Environmental Site Assessment (ESA) for the property located at 130 East Sprague Avenue in Spokane, Washington (the "Property"). **Figure 1** shows the location of the Property. The Phase II ESA was funded through a United States Environmental Protection Agency (EPA) Community-Wide Assessment Grant awarded to the City in 2019. Property eligibility for use of grant funding for the Phase II ESA was approved by the EPA on July 9, 2020. The work described herein was completed in general accordance with the scope, methods, and requirements detailed in:

1. EPA Cooperative Agreement Number BF-01J65801-1;
2. The *Master Quality Assurance Project Plan (Revision 0) for Implementation of U.S. EPA Brownfields Assessment Grants at Petroleum and Hazardous Substance Sites* (QAPP) (Stantec 2020a) prepared for the City and approved by the EPA on April 17, 2020; and,
3. The *Phase II Environmental Site Assessment Sampling and Analysis Plan, 130 East Sprague Avenue, Spokane, Washington 99202* (the "SAP") (Stantec 2020b) dated April 30, 2020, and approved by the EPA and the Washington State Department of Ecology (Ecology) on September 3 and September 14, 2020, respectively.

2.0 SITE DESCRIPTION

The Property consists of approximately 0.37 acres of land (Spokane County Parcel ID# 35202.0606) improved with a 4,200-square-foot (ft^2) office and garage building and an attached 960-ft^2 workshop on the northern half of the Property. The southern half of the Property is gravel covered and used for Property access, vehicle and equipment parking, and material storage on racks and within an approximate 360-ft^2 3-sided pole building. The Property is owned by Sitton Properties, LLC and occupied by Spokane Roofing Company, a commercial and residential roofing services company owned by Jeff Sitton of Sitton Properties, LLC.

The Property is located at an elevation of approximately 1,930 feet above sea level and is generally flat. The ground surface in the vicinity of the Property slopes downward to the north-northwest towards the Spokane River located approximately 0.40 miles from the Property. The Property is bounded to the north by East Sprague Avenue followed by an unoccupied commercial building, to the east by South Cowley Street followed by Curt's City Center Oil & Lube and Used Car, to the south by East 1st Avenue followed by a parking lot, and to the west by Community Pint, a beer sales business. The locations and layout of adjoining properties are shown on **Figure 2**.

2.1 FUTURE LAND USE

The redevelopment plan for the Property is unknown at this time but it likely will require renovation or demolition of the structures on the Property.

2.2 PREVIOUS ASSESSMENTS

A Phase I ESA report completed by Stantec (Stantec 2020c) showed the Property was vacant from at least 1891 until it was first purpose-built for Spokane Roofing Company in 1958. The Sitton's acquired the business in 2002.

During the Phase I ESA, a partially exposed underground storage tank (UST) was identified in the slope at the northwest corner of the Property. According to the property owner, the UST has not been in use since at least their acquisition of the Property in 2002. In addition to this UST, historical records obtained from the City of Spokane Fire Department indicate a permit was issued to Spokane Roofing Company on March 21, 1972, for the installation of a 2,000-gallon gasoline UST and dispenser. The permit has a handwritten note indicating the UST and dispenser were removed in 1988; however, the location of the UST and dispenser was not indicated.

Historical records for adjacent properties indicate the east adjacent property at 210 East Sprague Avenue currently occupied by Curt's City Center Oil and Lube (since at least 2009) was formerly used for a retail gas station from 1954 to 1969 as well as for automotive repair, aluminum recycling, and as a junk dealer. The property to the northeast of the Property at 201 East Sprague Avenue currently occupied by Spokane Movers was also formerly used for a retail gas station in the 1940s.

The following recognized environmental conditions (RECs) were identified in connection with the Property during the Phase I ESA:

- **REC #1**: The presence of a UST at the northwest corner of the Property with no documentation of its historical uses, contents, and integrity, and its potential to have resulted in a release of petroleum products to the environment is a REC for the Property.
- **REC #2**: The absence of records documenting the location, assessment, and removal of the 2000-gallon gasoline UST and dispenser and their potential to have resulted in a release of petroleum products to the environment is a REC for the Property.
- **REC #3**: The presence of a former gas station in close proximity to the Property (60 feet to the east), in combination with a lack of records documenting decommissioning and assessment of the associated former fueling system(s), is a REC for the Property.
- **REC #4**: The presence of a former gas station in close proximity to the Property (100 feet to the northeast), in combination with the lack of records documenting decommissioning and assessment of the associated former fueling system(s), is a REC for the Property.

The following business environmental risk (BER) relevant to redevelopment or reuse of the Property was identified during the Phase I ESA:

- **BER #1**: Based on when the Property's building was constructed (1958), there is potential regulated building materials (RBMs) were used in its construction, including asbestos-containing material (ACM) and lead-based paint (LBP). The potential presence of these RBMs is a BER for the Property due to the potential need to abate, remove, or manage these materials as part of future reuse or redevelopment activities, including renovation or demolition of the building.

Based on the identified RECs and BER, it was recommended that a Phase II ESA and RBM Survey be conducted prior to redevelopment or reuse of the Property.

3.0 PROJECT OBJECTIVES AND SCOPE OF WORK

The primary objectives of this Phase II ESA were to:

1. Assess whether the historical use of the partially exposed UST in the slope at the northwest corner of the Property has resulted in a release of petroleum products or other hazardous materials to the subsurface of the Property (REC #1).

2. Assess whether the historical use of a 2,000-gallon gasoline UST and dispenser on the Property has resulted in a release of petroleum products or other hazardous materials to the subsurface of the Property (REC #2).

3. Assess whether potential releases from the historical retail gas stations to the northeast and east of the Property have resulted in impacts by petroleum products or other hazardous materials to the subsurface of the Property (RECs #3 and #4).

4. Assess the building of the Property for the presence of RBMs (BER #1).

To accomplish these objectives, the SAP (Stantec 2020b) proposed implementation of the scope of work below. Because groundwater was anticipated to be at a depth of 60 feet or more, no groundwater samples were proposed.

- A geophysical survey to attempt to identify the 2,000-gallon UST cavity on the Property as well as to define the limits of the partially exposed UST in the slope at the northwest corner of the Property.

- Advancement of ten borings (designated BH01 through BH10) to a maximum depth of 8 feet below ground surface (bgs) for collection of up to two soil samples per boring: one sample from the interval exhibiting the greatest environmental impact based on field screening observations or else the mid-depth interval, and one sample from the boring terminus.

- Analysis of soil samples for Resource Conservation and Recovery Act (RCRA) 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), gasoline-range organics (GRO), diesel-range organics (DRO), residual-range organics (RRO), polycyclic aromatic hydrocarbons (PAHs), and volatile organic compounds (VOCs).

There was one deviation from the planned scope of work based on site conditions: based on the shallow depth of bedrock, there was an insufficient amount of soil recovered in each of the borings, except boring BH10, to collect a second soil sample. There were no other deviations from the approved SAP, and it is our opinion the deviation did not significantly impact the objectives of this Phase II ESA. Sampling locations are shown on **Figure 3**.

4.0 FIELD SAMPLING PROGRAM

4.1 PRELIMINARY FIELD ACTIVITIES

4.1.1 Health and Safety

A site-specific health and safety plan was prepared to describe field sampling activity safety protocols for Stantec employees engaged in the project. At the start of each day of field activities, a safety meeting was held, and safety protocols were reviewed.

4.1.2 Utility Clearance

Prior to conducting fieldwork, the Washington State Utility Notification Center was contacted to mark the location of public utilities for the Property. In addition, a private utility locating service provider, Geophysical Survey LLC (Geophysical Survey) of Kennewick, Washington, was contracted to mark any subsurface utilities or structures within the planned investigation areas at the Property using a GSSI SIR© 4000 ground penetrating radar controller and 350-megahertz antenna, a Geonics EM-61 MKII metal locator with a Trimble Pro6H GNSS receiver for mapping anomalies with sub-foot accuracy, and an electromagnetic line locating transmitter.

4.2 SUBSURFACE ASSESSEMENT

The field assessment activities were performed in accordance with the SAP (Stantec 2020b) and standard operating procedures (SOP) included in the QAPP (Stantec 2020a).

4.2.1 Geophysical Survey

Geophysical Survey completed a ground penetrating radar survey to attempt to identity the 2,000-gallon UST cavity on the Property as well as to define the limits of the partially exposed UST in the slope at the northwest corner of the Property. Evidence of the UST cavity was found near the center of the southern half of the Property, as shown on the figure from Geophysical Survey provided as **Appendix A** and on **Figure 3**. It was not possible to define the limits of the partially exposed UST because the slope where it is located is too steep for safe use of the survey equipment.

4.2.2 Soil Sampling

On September 17, 2020, Stantec directed the advancement of ten borings (BH01–BH10) by Steadfast Services Northwest, LLC of Vancouver, Washington, a licensed Washington State driller. Two borings (BH01 and BH02) were advanced using a hang auger while the remaining borings were advanced using direct push technology (GeoProbe® 5410 drill rig). None of the borings were drilled to the target depth of 8 feet bgs due to refusal from bedrock, which was encountered at 1.0–7.0-feet bgs in the borings. Groundwater was not encountered in the borings during drilling.

Soil samples from hand auger borings were obtained directly from the barrel of the hand auger, and soil samples from direct push borings were obtained from a clear acetate liner inserted into the hollow stainless-steel drill rod and driving the rod into the subsurface using a hydraulically driven hammer. The collected soil was continuously logged by a Stantec geologist for lithologic description using the Unified Soil Classification System and screened for visual/olfactory observations and for VOCs using a photoionization detector (PID) equipped with a 10.6 electron-volt lamp. Other distinctive visual characteristics, such as staining and odors, were also observed and noted for each sample interval. The soil classification, physical characteristics, PID readings, and soil sampling intervals are documented in the boring logs provided in **Appendix B**.

Soil samples selected for laboratory analysis were placed into laboratory-supplied containers and submitted under chain-of-custody to Pace Analytical in Mt. Juliet, Tennessee for the following analyses:

- RCRA 8 metals using EPA Method 6020B/7471B;
- GRO using method Northwest Total Petroleum Hydrocarbon (NWTPH)-Gx;
- DRO and RRO using method NWTPH-Dx;
- PAHs using EPA Method 8270E-Selective Ion Monitoring (SIM); and,
- VOCs (including fuel additives and blending compounds) using EPA Methods 5035 (methanol field preservation) and 8260D.

4.2.3 Quality Control Sampling

The following quality control samples were collected and analyzed to provide information on precision, accuracy, representativeness, comparability, and completeness of the data generated:

- One trip blank prepared by the lab (designated TB01) accompanied the soil samples and was analyzed for VOCs.
- One field duplicate sample (designated FD01) was analyzed for the same parameters as its parent sample, BH01 (1.5–2.0 feet).
- One matrix spike/matrix spike duplicate sample was analyzed for the same parameters as its parent sample, BH01 (1.5–2.0 feet).
- One equipment blank sample (designated EB01) was collected by pouring deionized water over the decontaminated hand auger into laboratory-supplied bottles and analyzed for the full analytical suite.

4.3 INVESTIGATION DERIVED WASTE

Soil cuttings generated during the subsurface assessment were collected in a 55-gallon drum temporarily stored on the Property pending analysis and waste characterization. One composite soil sample was analyzed for the waste characterization parameters listed as follows:

- RCRA 8 metals plus nickel, copper, and zinc using EPA Method 6020B/7471B;

- Semi-volatile organic compounds (SVOCs) using EPA Method 8270E; and,
- VOCs using EPA Method 8260D.

Based on the detected concentration of lead following RCRA 8 metals analysis, the sample was re-analyzed for lead, this time using the Toxicity Characteristic Leaching Procedure (TCLP) and EPA Method 6010D, to evaluate if the lead in the sample might be considered hazardous and require special management by a disposal facility.

4.4 RBM SURVEY

On September 18, 2020, Stantec's contractor, the field services division of NVL Laboratories, Inc. (NVL), an industrial hygiene services company, performed a Hazardous Materials Survey of the Property's building to assess building materials that may pose health risks during maintenance, renovation, or demolition activities, including ACM, LBP, polychlorinated biphenyl (PCB)-containing fluorescent light ballasts and mercury-containing fluorescent lamps, high-intensity discharge (HID) lamps, thermostats/switches, and batteries.

4.4.1 Asbestos Survey

Readily accessible areas of the Property's building were assessed by NVL for the presence of suspect ACM. Under the Clean Air Act National Emission Standard for Asbestos (40 Code of Federal Regulations [CFR] Part 61, Subpart M), ACM is regulated if it generally includes more than 1% asbestos that is friable (i.e., able to be crumbled with hand pressure when dry) or has the potential to become friable and release asbestos during demolition. The NVL inspectors were accredited Asbestos Hazard Emergency Response Act (AHERA) Building Inspectors as required by the Toxic Substances Control Act (TSCA) concerning asbestos (40 CFR Part 763), and the survey was conducted in accordance with the Occupational Safety and Health Administration (OSHA) Safety and Health for Construction regulations concerning asbestos (29 CFR Part 1926.1101).

The NVL inspectors surveyed readily accessible areas of the Property's buildings to identify and inventory suspect ACM and establish homogeneous sampling areas for the collection of bulk samples. TSCA defines a homogeneous area as a surfacing material, thermal system insulation, or miscellaneous material that is uniform in color and texture (40 CFR Part 763.83). The condition of each suspect ACM was evaluated and documented. At least one sample was collected of each suspect ACM. Samples were collected using hand tools and placed into individual sealable plastic bags with unique sample numbers.

Bulk suspect ACM samples were submitted to the NVL for bulk asbestos fiber analysis using polarized light microscopy using EPA Method 600/R-93/116.

4.4.2 Lead-Based Paint Assessment

Readily accessible areas of the Property's buildings were assessed by NVL for the presence of suspect LBP. TSCA and Washington State regulations define LBP as paint or other surface coatings that contain

lead equal to or more than 1.0 milligram per square centimeter, 5,000 parts per million, or 0.5% by weight (40 CFR Part 745.223 and Washington Administrative Code [WAC] 365-230-020). The NVL inspectors were certified Washington State lead assessors/lead inspectors per WAC 365-230-130, and the inspection and testing was performed in accordance with the OSHA Safety and Health for Construction regulations concerning lead (29 CFR Part 1926.62).

The NVL inspectors surveyed readily accessible surface areas of the Property's buildings to inventory paint and other surface coatings and establish representative surface areas for collection of bulk paint chip samples. Per LBP regulations (40 CFR Part 745.63), surface areas include exterior and interior friction surfaces (subject to abrasion or friction, including, but not limited to, certain window, floor, and stair surfaces) and impact surfaces (subject to damage by repeated sudden force such as certain parts of door frames). The condition of each painted or coated surface was evaluated and documented. At least one sample was collected of each representative surface area. Samples were collected using hand tools and placed into individual sealable plastic bags with unique sample numbers.

Bulk paint chip samples were submitted to NVL for lead analysis using flame atomic absorption spectrophotometry by EPA Method 7000B.

4.4.3 Polychlorinated Biphenyls and Mercury

Readily accessible areas of the Property's buildings were visually assessed by NVL the presence of PCB-containing light ballasts and mercury-containing fluorescent lamps, HID lamps, switches/thermostats, and batteries.

5.0 FIELD INVESTIGATION RESULTS

5.1 SITE GEOLOGY

The depths of the soil borings ranged from 1.0-foot bgs in borings BH03, BH04, BH07, and BH08 to 7.0-feet bgs in boring BH10. In general, soils encountered in the borings consisted of silty sand, occasionally with gravel, except borings BH09 and BH10, which consisted of silty gravel and sand fill. Based on the results of the geophysical survey, these latter borings (BH09 and BH10) were located within the backfilled tank pit for the former 2,000-gallon UST, where fill material differing from other site soils would be expected. There was no field evidence of contamination (i.e., petroleum odors/staining, elevated PID readings) observed in soil samples from the borings. Based on investigations by Stantec at other sites in this general area of Spokane, it is suspected that all of the unconsolidated materials overlying bedrock at the Property may be fill. However, no anthropogenic materials, such as bricks, concrete rubble, or refuse, were noted that would provide conclusive evidence of the unconsolidated materials origin. The observed soil types are described in more detail on the boring logs provided in **Appendix B**.

5.2 SITE HYROGEOLOGY

Groundwater was not encountered in the borings at a maximum depth explored of 7 feet bgs.

5.3 SOIL QUALITY

Eleven primary soil samples were collected from borings BH01–BH10. Soil samples were screened against the Model Toxics Control Act (MTCA) Method A (Unrestricted Land Use) cleanup levels (CULs) and the MTCA Method B Non-Cancer CULs for reference (Ecology 2020). The soil analytical data are presented in **Table 1**, and the detected concentrations that exceed MTCA Method A CULs and respective sample locations are shown on **Figure 4**. Laboratory reports are provided in **Appendix C**. For samples with a duplicate pair where one or both samples exceed the screening criteria, only the greater of the two detected concentrations is counted and noted in the summaries below.

5.3.1 Soil Quality Findings (by Analyte)

The table below summarizes analytes detected at concentrations that exceed the MTCA Method A CULs. A discussion of the results follows the table.

Analyte	Number of Primary Samples Analyzed	Number of Detections	Max Concentration	MTCA Method A CUL	Count Exceeding MTCA Method A CUL
Metals (milligrams per kilogram [mg/kg])					
Arsenic	11	100% (11)	24.9	20	1
Cadmium	11	36% (4)	14.8	2	1

Analyte	Number of Primary Samples Analyzed	Number of Detections	Max Concentration	MTCA Method A CUL	Count Exceeding MTCA Method A CUL
Lead	11	100% (11)	19,100	250	1
Petroleum Hydrocarbons (mg/kg)					
RRO	11	100% (11)	2,870	2,000	1
PAHs (mg/kg)					
Benzo(a)pyrene	11	100% (11)	0.348	0.1	5
Total TEQ[1]	11	Calculated	0.462	0.1	6

- Arsenic, cadmium, and lead were detected in sample BH06 (2.0–3.0 feet), respectively at concentrations of 24.9 mg/kg, 14.8 mg/kg, and 19,100 mg/kg, each of which exceeds the MTCA Method A CULs. This boring was completed in the gravel lot near the rollup door for the workshop of the Property's building. The soil at this boring location from 1.5–3.0 feet bgs was the only soil encountered at the Property that was described as blackish brown.

- RRO was detected at a concentration that exceeds the MTCA Method A CULs in sample BH07 (0.5–1.0 feet) at 2,870 mg/kg. This boring was completed at the southeast area of the gravel lot within the driveway for vehicles entering/exiting the Property via South Cowley Street.

- Benzo(a)pyrene was detected at concentrations that exceed the MTCA Method A CUL in samples BH06 (2.0–3.0 feet) at 0.251 mg/kg, BH07 (0.5–1.0 foot) at 0.348 mg/kg, BH09 (2.0–3.0 feet) at 0.220 mg/kg, BH10 (3.0–3.5 feet) at 0.106 mg/kg, and BH10 (6.5–7.0 feet) at 0.243 mg/kg. Additionally, the total TEQ concentrations calculated for these same samples as well as for sample BH04 (0.5–1.0 foot) also exceed the MTCA Method A CUL at 0.330 mg/kg, 0.462 mg/kg, 0.281 mg/kg, 0.141 mg/kg, 0.322 mg/kg, and 0.121 mg/kg, respectively. Calculation of diagnostic ratios between select PAHs (provided as **Appendix D**) indicate the PAHs present in these samples are likely from pyrogenic sources, which arise from the incomplete combustion of fossil fuels and organic matter and which can be dispersed throughout shallow soils in urban areas from sources such as motor vehicle exhaust or emissions from coal and wood burning furnaces. The diagnostic ratios for PAHs in the soil samples were not indicative of "petrogenic" sources, which are associated with releases of crude oil or refined crude oil products, such as gasoline and heating oil. The pyrogenic PAHs found at the Property are commonly associated with fill materials in urban settings, and their ubiquitous presence within the soil samples is indirect evidence for the unconsolidated materials at the Property being fill.

[1] Per WAC 173-340-708(8)(e), the toxicity of environmental samples containing mixtures of carcinogenic PAHs was evaluated by calculating toxicity equivalent quotient (TEQ) concentrations per Ecology's published guidance *Evaluating the Human Health Toxicity of Carcinogenic PAHs (cPAHs) Using Toxicity Equivalency Factors (TEFs)* (2015). The total TEQs for the cPAH mixture in each sample were compared to the MTCA Method A CUL for benzo(a)pyrene, the reference chemical because its toxicity is well characterized.

5.3.2 Soil Quality Findings (by Investigation Area)

The table below summarizes the soil quality findings by investigation area. The detected analytes that exceed their MTCA Method A CUL, as discussed in the previous section, are identified in the table in bold font.

Investigation Area or Item of Concern	Relevant Phase II ESA Borings	Metals Results	DRO, GRO, RRO, and VOCs Results	PAHs Results
Exposed UST in slope on north side of building	BH01, BH02	• All < CULs • BH02 has the 2nd highest As, Cd, and Pb concentrations.	• All < CULs • Maximum DRO/GRO/RRO concentration is 93.5 mg/kg RRO at BH02	• All < CULs
Former gas stations to north and east of Property	BH03, BH04, BH05	• All < CULs	• All < CULs • Maximum DRO/GRO/RRO concentration is 24.9 mg/kg RRO at BH02	• **All < CULs, except the Total TEQ at BH04 (0.121 mg/kg) slightly exceeds the CUL (0.1 mg/kg)**
Oil stain near southeast corner of garage	BH04	• All < CULs	• DRO and GRO were not detected • RRO = 24.9 mg/kg (< CUL)	• All < CULs, except the Total TEQ at BH04 (0.121 mg/kg) slightly exceeds the CUL (0.1 mg/kg)
Used oil tote and outdoor area on south side of workshop	BH06	• **As (24.9 mg/kg), Cd (14.8 mg/kg), and Pb (19,100 mg/kg) all exceed CULs.**	• All < CULs (although RRO = 754 mg/kg vs CUL of 2,000 mg/kg)	• **BaP (0.251 mg/kg) and Total TEQ (0.33 mg/kg) both exceed CULs.**
Southeast area of the gravel lot – driveway for vehicles entering/exiting from South Cowley Street	BH07	• All < CULs	• **RRO (2,870 mg/kg) exceeds the CUL (2,000 mg/kg)**	• **BaP (0.348 mg/kg) and Total TEQ (0.462 mg/kg) both exceed CULs**.
Outdoor storage areas – southwest corner of Property	BH08	• All < CULs	• All < CULs (although RRO = 446 mg/kg vs CUL of 2,000 mg/kg)	• All < CULs
Former 2,000-gallon gasoline UST	BH09, BH10	• All < CULs	• All < CULs (although RRO = 497, 526, and 594 mg/kg vs CUL of 2,000 mg/kg)	• **BaP and Total TEQ exceed CULs in all three samples.**

As: arsenic; BaP: benzo(a)pyrene; Cd: cadmium; Pb: lead; <: less than.

5.4 DATA VALIDATION RESULTS

Quality Assurance/Quality Control (QA/QC) procedures were incorporated into both field and laboratory protocols in accordance with the QAPP. This includes an analysis of the data from the quality control samples discussed in **Section 4.2.3**. The data quality objective for this investigation was for the analytical data to be reproducible and of an acceptable quality to allow for comparison with the applicable screening criteria for the project. The data quality review is provided in **Appendix E**. Based on the data quality review, the results indicate that the dataset is acceptable and usable for the purposes of this investigation.

5.5 INVESTIGATION DERIVED WASTE RESULTS

The analytical results of the composite sample of drummed soil cuttings were compared to the hazardous waste characteristics defined in 40 CFR Part 261, Subpart C. The analytical data are summarized on **Table 2**. The results indicate the investigation derived waste is non-hazardous.

5.6 RBM SURVEY

An inventory of the suspect ACM and testing results, suspect LBP and testing results, and counts of PCB- and mercury-containing equipment are presented in NVL's report provided as **Appendix F**. NVL collected 43 samples of potential ACM; four samples of potential LBP for analysis; counted 58 florescent light tubes assumed to contain mercury; and 29 light ballasts assumed to contain PCBs. NVL identified multiple materials in the Property's buildings that contain asbestos at levels that meet the regulatory definition of ACM. NVL's report provides a description of each material, locations, and recommendations for their safe handling.

6.0 CONCLUSIONS

Objective #1

- Assess whether the historical use of the partially exposed UST in the slope at the northwest corner of the Property has resulted in a release of petroleum products or other hazardous materials to the subsurface of the Property (REC #1).

  Resolution – While the sample results from borings BH01 and BH02, completed on either side of the partially exposed UST, indicate a release of petroleum products (GRO, DRO, RRO, and a few petroleum-derived VOCs), the detected concentrations are significantly less than the MTCA Method A CULs. The greatest measured concentration was 93.5 mg/kg RRO (versus a CUL of 2,000 mg/kg). The data suggests an older release that has attenuated with time. The size of the UST could not be determined during the geophysical survey due to the steepness of the slope it is in.

Objective #2

- Assess whether the historical use of a 2,000-gallon gasoline UST and dispenser on the Property has resulted in a release of petroleum products or other hazardous materials to the subsurface of the Property (REC #2).

  Resolution – Although the concentrations of benzo(a)pyrene and total TEQ in all three soil samples analyzed from borings BH09 and BH10 exceed MTCA Method A CULs, these appear to be attributable to pyrogenic sources unrelated to petroleum products (and in particular, gasoline) stored in the former UST. No GRO was detected in any of the samples, which further suggests that a significant release of gasoline did not occur in this area of the Property. The only petroleum-derived VOC detected was benzene in one sample (BH10 at 6.5–7.0 feet) at a concentration of 0.000464 mg/kg, which is more than 60 times less than the CUL of 0.03 mg/kg.

Objective #3

- Assess whether potential releases from the historical retail gas stations to the northeast and east of the Property have resulted in impacts by petroleum products or other hazardous materials to the subsurface of the Property (RECs #3 and #4).

  Resolution – No evidence was found of impacts to soil at the Property from undocumented releases at the former gas stations. The maximum GRO, DRO, or RRO concentration measured in the sample locations closest to these stations (BH03, BH04, and BH05) was 24.9 mg/kg RRO (versus a CUL of 2,000 mg/kg).

Objective #4

- Assess the Property's building for the presence of RBMs (BER #1).

  Resolution – The data indicate there is ACM in the Property's building that will need to be appropriately managed or abated in conjunction with the planned future demolition or renovation of the building. Note that there may be concealed components that were not sampled as part of this assessment for which the demolition contractor will need to have a contingency plan if suspect ACM

is encountered. The florescent light tubes assumed to contain mercury should be handled as a Universal Waste and the light ballasts assumed to contain PCBs should be handled as PCB-containing material, unless “PCB Free” or “Non-PCB” labels are identified and then the light ballasts could be recycled. Additional information and recommendations are contained in NVL’s report provided in **Appendix F**.

Other Conclusions

- Other impacts to soil were identified in select samples collected from the Property relevant to other investigation areas as summarized in **Section 5.3.2** and shown on **Figures 3 and 4**. Specifically, metals (arsenic, cadmium, and lead) were detected at concentrations that exceed the MTCA Method A CULs in sample BH06 (2.0–3.0 feet) and RRO was detected at a concentration that exceeds the MTCA Method A CUL in sample BH07 (0.5–1.0 foot). Boring BH06 was completed just outside the workshop, suggesting the metals impacts may be related to site activities or fill material based on the observed blackish brown color of the sample. Because it is soft and durable, lead has been used for centuries in roof flashing materials and may be a source of lead at the site. Boring BH07 was completed within the driveway for vehicles entering/exiting the Property via South Cowley Street, suggesting the RRO impact may be related to leaking vehicles.

- PAHs (benzo[a]pyrene and total TEQ) were also detected at concentrations that exceed the MTCA Method A CUL in multiple samples collected across the Property from borings BH04, BH06, BH07, BH09, and BH10. Based on the PAH diagnostic ratios for these samples (**Appendix D**), the source of the impacts is likely a pyrogenic source, which is typical of fill material impacted by anthropogenic activities in the urban setting, rather than a petrogenic source, such as a petroleum release.

7.0 RECOMMENDATIONS

Based on the findings of this Phase II ESA, Stantec makes the following recommendations:

- The data for the analytes for which concentrations exceed MTCA Method A CULs (see **Section 5.3**) are reportable by the property owner to Ecology within 90 days of the date of this report, as required by WAC 173-340-300. Ecology will then perform an Initial Investigation, which includes a review of available data for the Property, and then potentially add the Property to the Confirmed and Suspected Contaminated Sites List, which is a database of sites that are undergoing cleanup and sites that are awaiting further investigation and/or cleanup.

- Additional sampling is recommended to delineate the impacts of metals in the sample from BH06 and RRO in the sample from BH07. No additional sampling is recommended to delineate PAHs since there does not to be any point source for the impacts. Once the metals and RRO are delineated, An Analysis of Brownfield Cleanup Alternatives (ABCA) is recommended for the remediation of soil impacts on the Property at concentrations that exceed the MTCA Method A CULs, including PAHs. The ABCA identifies cleanup objectives and provides an analysis of cleanup alternatives based on effectiveness, ability to implement, cost analysis, and development of a proposed remedial action.

- In accordance with WAC 296-62-07721, the NVL report (**Appendix F**) should be provided to the contractor prior to performing maintenance, renovation, or demolition work of the Property's building. The report includes recommendations for handling identified RBM as well as concealed components that may contain asbestos.

8.0 LIMITATIONS

This report documents work that was performed in accordance with generally accepted professional standards at the time and location in which the services were provided. No other representations, warranties or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential liabilities associated with the identified property.

This report provides an evaluation of selected environmental conditions associated with the identified portion of the property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. There are no assurances regarding the accuracy and completeness of this information. All information received from the client or third parties in the preparation of this report has been assumed by Stantec to be correct. Stantec assumes no responsibility for any deficiency or inaccuracy in information received from others.

The opinions in this report can only be relied upon as they relate to the condition of the portion of the identified property that was assessed at the time the work was conducted. Activities at the property subsequent to Stantec's assessment may have significantly altered the property's condition. Stantec cannot comment on other areas of the property that were not assessed.

Conclusions made within this report consist of Stantec's professional opinion as of the time of the writing of this report and are based solely on the scope of work described in the report, the limited data available and the results of the work. They are not a certification of the property's environmental condition. This report should not be construed as legal advice.

This report has been prepared for the exclusive use of the client identified herein and any use by any third party is prohibited. Stantec assumes no responsibility for losses, damages, liabilities or claims, howsoever arising, from third party use of this report.

This report is limited by the following:

- Stantec spent only a limited amount of time on the property, and thus is not aware of any activities conducted on the property prior to or following the site visit.
- The investigation was limited to the analytical program specifically outlined in this report.
- The subsurface investigation was based on borehole locations and conditions may vary between boreholes.

The locations of any utilities, buildings and structures, and property boundaries illustrated in or described within this report, if any, including pole lines, conduits, water mains, sewers and other surface or sub-surface utilities and structures are not guaranteed. Before starting work, the exact location of all such utilities and structures should be confirmed and Stantec assumes no liability for damage to them.

Limitations
February 18, 2021

The conclusions are based on the site conditions encountered by Stantec at the time the work was performed at the specific testing and/or sampling locations, and conditions may vary among sampling locations. Factors such as areas of potential concern identified in previous studies, site conditions (e.g., utilities) and cost may have constrained the sampling locations used in this assessment. In addition, analysis has been carried out for only a limited number of chemical parameters, and it should not be inferred that other chemical species are not present. Due to the nature of the investigation and the limited data available, Stantec does not warrant against undiscovered environmental liabilities nor that the sampling results are indicative of the condition of the entire site. As the purpose of this report is to identify site conditions which may pose an environmental risk; the identification of non-environmental risks to structures or people on the site is beyond the scope of this assessment.

Should additional information become available which differs significantly from our understanding of conditions presented in this report, Stantec specifically disclaims any responsibility to update the conclusions in this report.

9.0 REFERENCES

Ecology. 2015. "Evaluating the Human Health Toxicity of Carcinogenic PAHs (cPAHs) Using Toxicity Equivalency Factors (TEFs)." *Implementation Memorandum #10.* Publication No. 15-09-049, April 20.

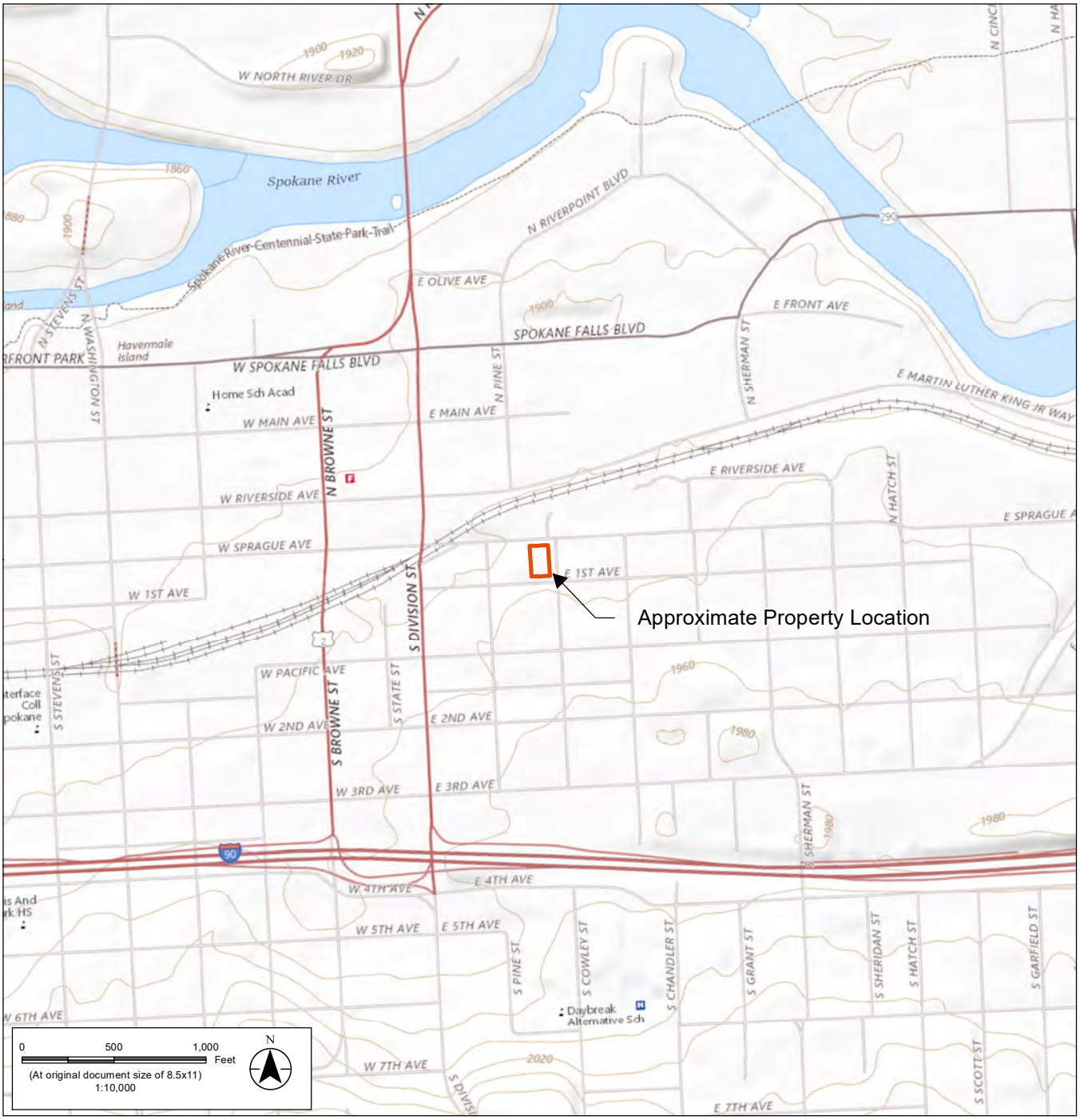
—. 2020. *Cleanup Levels and Risk Calculation (CLARC) Data Tables.* August. https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Contamination-clean-up-tools/CLARC.

Stantec. 2020a. "Master Quality Assurance Project Plan (Revision 0) for Implementation of U.S. EPA Browfields Assesment Grants at Petroleum and Hazardous Substance Sites." *Cooperative Agreement No. BF-01J65801.* March 3.

—. 2020b. "Phase II Envrionmental Site Assessment Sampling and Analysis Plan, 130 East Sprague Avenue, Spokane, Washington 99202." August 31.

—. 2020c. "Spokane Roofing Company Phase I Environmental Site Assessment." June 3.

FIGURES



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Approximate Property Boundary

Notes

1. Coordinate System: NAD 1983 2011 StatePlane Washington North FIPS 4601 Ft US
2. Data Sources: Spokane County GIS
3. Background: USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed May, 2020.

Stantec

Project Location
Spokane Roofing
130 East Sprague Avenue, Spokane, WA

Client/Project 185751194
City of Spokane
EPA Brownfield Coalition Assessment Grant
Phase II Environmental Site Assessment

Title
Property Location

Figure No.
1

Stantec

Legend

Approximate Site Boundary

0 100 200 Feet

1:1,000 (At original document size of 11x17)

Notes

1. Coordinate System: NAD 1983 HARN StatePlane Washington North FIPS 4601 Feet
2. Orthoimagery © Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, 2020. Imagery Date, 2018.

Project Location 185751194 REVA

Spokane Roofing
130 East Sprague Avenue, Spokane, WA

Client/Project

City of Spokane
EPA Brownfield Coalition Assessment Grant
Phase II Environmental Site Assessment

Figure No.

2

Title

Property Layout

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Stantec

Legend

- 2 Soil Sampling Location (Stantec 2020)
- Approximate Property Boundary
- [— Fence

0 20 40 Feet

1:400 (At original document size of 11x17)

Notes

1. Coordinate System: NAD 1983 2011 StatePlane Washington North FIPS 4601 Ft US
2. Background: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, rdnance Survey, Esri Japan,METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
3. Google (7/18/2019). [Spokane, WA]. Retrieved May 18, 2020, from https://earth.google.com/web/@47.65696462,-117.40860040,798.42005677

Project Location 185751194 REVA

Spokane Roofing
130 East Sprague Avenue, Spokane, WA

Client/Project

City of Spokane
EPA Brownfield Coalition Assessment Grant
Phase II Environmental Site Assessment

Figure No.

3

Title

Sampling Locations

V:\185\Active\185751194_spokaneyals_ostfga\mxd\phase_ii_esa\130_e_sprague_ave\fig_03_130_e_sprague_ave_ph2esa_sampling_20201030.mxd Revised: 2020-11-05 By: awelter

BH06	
	2.0 - 3.0 ft 09/17/2020
Arsenic	24.9
Cadmium	14.8
Lead	19,100
Benzo(a)pyrene	0.251
Total TEQ	0.330

BH04	
	0.5 - 1.0 ft 09/17/2020
Total TEQ	0.121

BH09	
	2.0 - 3.0 ft 09/17/2020
Benzo(a)pyrene	0.220
Total TEQ	0.281

BH10		
	3.0 - 3.5 ft 09/17/2020	6.5 - 7.0 ft 09/17/2020
Benzo(a)pyrene	0.106	0.243
Total TEQ	0.141	0.322

BH07	
	0.5 - 1.0 ft 09/17/2020
TPH - Residual Range Organics (RRO)	2,870 J+
Benzo(a)pyrene	0.348
Total TEQ	0.462

Stantec

Legend

- Soil Sampling Location (Stantec 2020)
- Soil Parameters Tested Were Below Guidelines
- One or More Soil Parameters Tested Exceed Guidelines
- Concentration Exceeds MTCA Method A Cleanup Levels

Sample ID / Sample Depth (feet)/ Sample Date

BH04	
	0.5 - 1.0 ft 09/17/2020
Total TEQ	0.121

Parameter / Concentration in mg/kg Exceeds Guidelines

Parameter	Units	MTCA CULs	
		Method A	Method B
Arsenic	mg/kg	20	24
Benzo(a)pyrene	mg/kg	1	n/v
Cadmium	mg/kg	2	80
Lead	mg/kg	250	n/v
Total TEQ	mg/kg	0.1	24
TPH - Residual Range Organics	mg/kg	2,000	n/v

0 25 50 Feet

1:400 (At original document size of 11x17)

Notes

1. Coordinate System: NAD 1983 HARN StatePlane Washington North FIPS 4601 Feet
2. Orthoimagery: Google (7/18/2019). [Spokane, WA]. Retrieved May 18, 2020, from https://earth.google.com/web/@47.65696462,-117.40860040,798.42005677
3. mg/kg = milligrams per kilogram
4. n/v = no value
5. TEQ = total toxic equivalent
6. TPH = total petroleum hydrocarbons
7. MTCA = Model Toxics Control Act

Project Location 185751194 REVA

Spokane Roofing
130 East Sprague Avenue, Spokane, WA

Client/Project

City of Spokane
EPA Brownfield Coalition Assessment Grant
Phase II Environmental Site Assessment

Figure No.

4

Title

Summary of Soil Analytical Results

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TABLES

Table 1
Summary of Soil Analytical Results
Phase II Environmental Site Assessment
130 E Sprague Avenue
Spokane, Washington

Sample Location			SR-BH01		SR-BH02	SR-BH03	SR-BH04	SR-BH05	SR-BH06	SR-BH07	SR-BH08	SR-BH09	SR-BH10	
Sample Date		MTCA CULs	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20
Sample ID			SR-BH01SO 1.5-2.0	SR-FD01SO	SR-BH02SO 0.5-1.0	SR-BH03SO 0.5-1.0	SR-BH04SO 0.5-1.0	SR-BH05SO 2-2.5	SR-BH06SO 2-3	SR-BH07SO 0.5-1.0	SR-BH08SO 0.5-1.0	SR-BH09SO 2-3	SR-BH10SO 3-3.5	SR-BH10SO 6.5-7
Sample Depth		Method A	1.5 - 2 ft	1.5 - 2 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	2 - 2.5 ft	2 - 3 ft	0.5 - 1 ft	0.5 - 1 ft	2 - 3 ft	3 - 3.5 ft	6.5 - 7 ft
Sample Type	Units	A	Primary	Field Duplicate	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Metals (6020B, 7471B)														
Arsenic	mg/kg	20	**8.51**	**6.38**	**9.78**	**5.82**	**4.69**	**11.4**	**24.9**	**7.16**	**2.18**	**3.63**	**6.36**	**6.47**
Barium	mg/kg	n/v	**66.6 J**	**44.0 J**	**177**	**127**	**94.1**	**132**	**572**	**83.4**	**92.8**	**55.8**	**75.8**	**47.8**
Cadmium	mg/kg	2	<0.415	<0.415	**0.927 J**	**0.485 J**	<0.413	<0.463	**14.8**	**0.925 J**	<0.435	<0.413	<0.414	<0.415
Chromium	mg/kg	2,000	**11.9**	**8.88**	**20.0**	**238**	**11.0**	**10.8**	**89.2**	**16.9**	**8.72**	**10.6**	**11.4**	**8.67**
Lead	mg/kg	250	**24.1**	**17.8**	**229**	**161**	**16.3**	**18.1**	**19,100**	**85.7**	**21.2**	**23.2**	**31.9**	**26.6**
Mercury	mg/kg	2	<0.0184	<0.0184	**0.0898**	**0.219**	<0.0183	**0.0275 J**	**1.13**	**0.123**	**0.0248 J**	<0.0183	<0.0184	<0.0184
Selenium	mg/kg	n/v	<1.03	<1.03	<1.04	<1.04	<1.03	<1.15	<1.16	<1.04	<1.08	<1.03	<1.03	<1.03
Silver	mg/kg	n/v	<0.218	<0.218	**0.294 J**	<0.219	<0.217	<0.243	**8.58**	<0.218	<0.228	<0.217	<0.217	<0.218
Petroleum Hydrocarbons (NWTPH)														
TPH - Gasoline Range Organics (GRO)	mg/kg	30	**7.18**	**0.604**	**2.05**	**0.0620 J**	<0.880	**0.0506 J**	<0.0388	**1.08 J**	<0.987	<0.879	<0.892	<0.887
TPH - Diesel Range Organics (DRO)	mg/kg	2,000	**2.62 J**	**5.51**	**11.3 J**	**7.43**	<5.42	**6.37**	**113 J**	**352 J+**	**159**	<67.6	<67.8	<68.0
TPH - Residual Range Organics (RRO)	mg/kg	2,000	**10.2 J**	**23.1**	**93.5**	**24.9**	**48.3**	**10.1 J**	**754**	**2,870 J+**	**446**	**526**	**497 J**	**594**
Polycyclic Aromatic Hydrocarbons (8270E-SIM)														
Acenaphthene	mg/kg	n/v	<0.00214	<0.00214	<0.00215	<0.00215	**0.00525 J**	<0.00238	**0.0171**	<0.0214	<0.00224	**0.00709**	**0.00299 J**	<0.0214
Acenaphthylene	mg/kg	n/v	<0.00221	<0.00221	<0.00222	<0.00222	<0.00220	<0.00246	<0.00247	<0.0221	<0.00231	<0.00220	<0.00220	<0.0221
Anthracene	mg/kg	n/v	<0.00235	<0.00235	**0.00506 J**	**0.00562 J**	**0.0141**	<0.00262	**0.0523**	**0.0958**	**0.00650**	**0.0279**	**0.0216**	**0.0642**
Benzo(a)anthracene	mg/kg	n/v	**0.00380 J**	**0.00244 J**	**0.0243**	**0.0488**	**0.0657**	**0.0196**	**0.182**	**0.189**	**0.0273**	**0.124**	**0.0745**	**0.172**
Benzo(a)pyrene	mg/kg	0.1	**0.00460 J**	**0.00297 J**	**0.0292**	**0.0635**	**0.0891**	**0.0218**	**0.251**	**0.348**	**0.0349**	**0.220**	**0.106**	**0.243**
Benzo(b)fluoranthene	mg/kg	n/v	**0.00733**	**0.00472 J**	**0.0458**	**0.0988**	**0.125**	**0.0215**	**0.314**	**0.449**	**0.0527**	**0.234**	**0.122**	**0.299**
Benzo(g,h,i)perylene	mg/kg	n/v	**0.00527 J**	**0.00457 J**	**0.0291**	**0.0572**	**0.0936**	**0.0152**	**0.177**	**0.455**	**0.0497**	**0.176**	**0.154**	**0.221**
Benzo(k)fluoranthene	mg/kg	n/v	<0.00220	<0.00220	**0.0140**	**0.0244**	**0.0401**	**0.00640 J**	**0.0778**	**0.145**	**0.0152**	**0.0728**	**0.0353**	**0.0918**
Chloronaphthalene, 2-	mg/kg	n/v	<0.00476	<0.00476	<0.00479	<0.00479	<0.00475	<0.00531	<0.00533	<0.0478	<0.00499	<0.00474	<0.00475	<0.0476
Chrysene	mg/kg	n/v	**0.00366 J**	**0.00278 J**	**0.0274**	**0.0541**	**0.0655**	**0.0204**	**0.228**	**0.217**	**0.0300**	**0.119**	**0.0827**	**0.168**
Dibenzo(a,h)anthracene	mg/kg	n/v	<0.00176	<0.00176	**0.00582 J**	**0.0116**	**0.0181**	**0.00376 J**	**0.0404**	**0.0782**	**0.0109**	**0.0361**	**0.0223**	**0.0406 J**
Fluoranthene	mg/kg	n/v	**0.00729**	**0.00394 J**	**0.0474**	**0.0948**	**0.122**	**0.0167**	**0.303**	**0.287**	**0.0490**	**0.231**	**0.120**	**0.339**
Fluorene	mg/kg	n/v	<0.00210	<0.00210	<0.00211	<0.00211	**0.00268 J**	<0.00234	**0.0121**	<0.0210	<0.00220	**0.00525 J**	**0.00369 J**	<0.0210
Indeno(1,2,3-cd)pyrene	mg/kg	n/v	**0.00384 J**	**0.00306 J**	**0.0207**	**0.0431**	**0.0673**	**0.0124**	**0.152**	**0.259**	**0.0323**	**0.128**	**0.0838**	**0.166**
Methylnaphthalene, 1-	mg/kg	n/v	<0.00459	<0.00459	<0.00462	**0.00667 J**	<0.00457	<0.00512	**0.0298**	<0.0460	<0.00481	<0.00457	<0.00458	<0.0459
Methylnaphthalene, 2-	mg/kg	n/v	<0.00437	<0.00437	**0.00594 J**	**0.00868 J**	**0.00490 J**	<0.00486	**0.0567**	<0.0438	<0.00458	<0.00434	<0.00436	<0.0436
Naphthalene	mg/kg	5	<0.00417	<0.00417	**0.00626 J**	**0.00838 J**	**0.00481 J**	<0.00465	**0.0598**	<0.0418	<0.00437	<0.00415	<0.00416	<0.0417
Phenanthrene	mg/kg	n/v	**0.00330 J**	**0.00263 J**	**0.0235**	**0.0278**	**0.0494**	**0.00455 J**	**0.165**	**0.130**	**0.0221**	**0.0641**	**0.0339**	**0.163**
Pyrene	mg/kg	n/v	**0.00688**	**0.00606 J**	**0.0525**	**0.110**	**0.135**	**0.0379**	**0.299**	**0.352**	**0.0624**	**0.269**	**0.135**	**0.356**
Toxicity Equivalency Concentration (TEQ)	**TEF**													
Benzo(a)anthracene	0.1		0.00038	0.000244	0.00243	0.00488	0.00657	0.00196	0.0182	0.0189	0.00273	0.0124	0.00745	0.0172
Benzo(a)pyrene	1		0.0046	0.00297	0.0292	0.0635	0.0891	0.0218	0.251	0.348	0.0349	0.22	0.106	0.243
Benzo(b)fluoranthene	0.1		0.000733	0.000472	0.00458	0.00988	0.0125	0.00215	0.0314	0.0449	0.00527	0.0234	0.0122	0.0299
Benzo(k)fluoranthene	0.1		0	0	0.0014	0.00244	0.00401	0.00064	0.00778	0.0145	0.00152	0.00728	0.00353	0.00918
Chrysene	0.01		0.0000366	0.0000278	0.000274	0.000541	0.000655	0.000204	0.00228	0.00217	0.0003	0.00119	0.000827	0.00168
Dibenzo(a,h)anthracene	0.1		0	0	0.000582	0.00116	0.00181	0.000376	0.00404	0.00782	0.00109	0.00361	0.00223	0.00406
Indeno(1,2,3-cd)pyrene	0.1		0.000384	0.000306	0.00207	0.00431	0.00673	0.00124	0.0152	0.0259	0.00323	0.0128	0.00838	0.0166
Sum of cPAHs	mg/kg	0.1	0.00613	0.00402	0.0405	0.0867	0.121	0.028	0.330	0.462	0.0490	0.281	0.141	0.322
Volatile Organic Compounds (8260D)														
Acetone	mg/kg	n/v	**0.299 J+**	**0.430**	**0.207**	**0.0791**	**0.0530**	<0.691	**0.325**	**0.0525**	**0.207**	**0.0741**	**0.0283 J**	**0.0597**
Acrylonitrile	mg/kg	n/v	<0.00207	<0.00206	<0.00208	<0.00253	<0.00206	<0.0673	<0.00292	<0.00207	<0.00216	<0.00205	<0.00206	<0.00227
Benzene	mg/kg	0.03	**0.000708 J**	**0.000565 J**	**0.00215**	**0.000555 J**	**0.000854 J**	<0.0125	<0.000541	<0.000385	**0.000478 J**	<0.000381	<0.000382	**0.000464 J**
Bromobenzene	mg/kg	n/v	<0.000281	<0.000281	<0.000283	<0.000345	<0.000280	<0.00918	<0.000397	<0.000282	<0.000295	<0.000280	<0.000280	<0.000310
Bromodichloromethane	mg/kg	n/v	<0.000741	<0.000741	<0.000745	<0.000909	<0.000738	<0.0241	<0.00105	<0.000743	<0.000777	<0.000737	<0.000739	<0.000815
Bromoform (Tribromomethane)	mg/kg	n/v	<0.000434	<0.000433	<0.000436	<0.000532	<0.000432	<0.0141	<0.000611	<0.000435	<0.000454	<0.000431	<0.000432	<0.000476
Bromomethane (Methyl bromide)	mg/kg	n/v	<0.00120	<0.00120	<0.00120	<0.00147	<0.00119	<0.0391	**0.00193 J**	<0.00120	<0.00125	<0.00119	<0.00119	<0.00132
Butylbenzene, n-	mg/kg	n/v	<0.000264	<0.000264	<0.000265	<0.000324	<0.000263	**0.00882 J**	<0.000372	<0.000265	<0.000276	<0.000262	<0.000263	<0.000290
Butylbenzene, sec- (2-Phenylbutane)	mg/kg	n/v	<0.000206	<0.000205	<0.000207	<0.000252	<0.000205	<0.00671	<0.000290	<0.000206	<0.000215	<0.000204	<0.000205	<0.000226
Butylbenzene, tert-	mg/kg	n/v	<0.000211	<0.000211	<0.000212	<0.000258	<0.000210	<0.00687	<0.000298	<0.000211	<0.000221	<0.000209	<0.000210	<0.000232
Carbon Tetrachloride (Tetrachloromethane)	mg/kg	n/v	<0.000254	<0.000254	<0.000255	<0.000312	<0.000253	<0.00827	<0.000357	<0.000254	<0.000266	<0.000252	<0.000253	<0.000279
Chlorobenzene (Monochlorobenzene)	mg/kg	n/v	<0.000196	<0.000196	<0.000197	<0.000241	<0.000196	<0.00640	<0.000277	<0.000197	<0.000206	<0.000195	<0.000196	<0.000216
Chloroethane (Ethyl Chloride)	mg/kg	n/v	<0.00102	<0.00102	<0.00103	<0.00125	<0.00102	<0.0333	<0.00144	<0.00103	<0.00107	<0.00102	<0.00102	<0.00112
Chloroform (Trichloromethane)	mg/kg	n/v	<0.00105	<0.00105	<0.00106	<0.00130	<0.00105	<0.0344	<0.00149	<0.00106	<0.00110	<0.00105	<0.00105	<0.00115
Chloromethane	mg/kg	n/v	<0.000665 UJ	<0.000664	<0.000668	<0.000815	<0.000662	<0.0217	<0.000938	<0.000666	<0.000697	<0.000661	<0.000663	<0.000731

Table 1
Summary of Soil Analytical Results
Phase II Environmental Site Assessment
130 E Sprague Avenue
Spokane, Washington

Sample Location			SR-BH01		SR-BH02	SR-BH03	SR-BH04	SR-BH05	SR-BH06	SR-BH07	SR-BH08	SR-BH09	SR-BH10	
Sample Date		MTCA CULs	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20
Sample ID			SR-BH01SO 1.5-2.0	SR-FD01SO	SR-BH02SO 0.5-1.0	SR-BH03SO 0.5-1.0	SR-BH04SO 0.5-1.0	SR-BH05SO 2-2.5	SR-BH06SO 2-3	SR-BH07SO 0.5-1.0	SR-BH08SO 0.5-1.0	SR-BH09SO 2-3	SR-BH10SO 3-3.5	SR-BH10SO 6.5-7
Sample Depth		Method A	1.5 - 2 ft	1.5 - 2 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	2 - 2.5 ft	2 - 3 ft	0.5 - 1 ft	0.5 - 1 ft	2 - 3 ft	3 - 3.5 ft	6.5 - 7 ft
Sample Type	Units	A	Primary	Field Duplicate	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Chlorotoluene, 2-	mg/kg	n/v	<0.000230	<0.000230	<0.000231	<0.000283	<0.000229	<0.00751	<0.000325	<0.000231	<0.000241	<0.000229	<0.000229	<0.000252
Chlorotoluene, 4-	mg/kg	n/v	<0.000707	<0.000706	<0.000710	<0.000867	<0.000704	<0.0231	<0.000997	<0.000709	<0.000741	<0.000703	<0.000705	<0.000777
Dibromo-3-Chloropropane, 1,2- (DBCP)	mg/kg	n/v	<0.00194	<0.00194	<0.00195	<0.00239	<0.00193	<0.0633	<0.00274	<0.00195	<0.00204	<0.00193	<0.00194	<0.00214
Dibromochloromethane	mg/kg	n/v	<0.000229	<0.000229	<0.000230	<0.000281	<0.000228	<0.00747	<0.000323	<0.000230	<0.000240	<0.000228	<0.000228	<0.000251
Dibromomethane (Methylene Bromide)	mg/kg	n/v	<0.000358	<0.000358	<0.000360	<0.000439	<0.000356	<0.0117	<0.000505	<0.000359	<0.000375	<0.000356	<0.000357	<0.000394
Dichlorobenzene, 1,2-	mg/kg	n/v	<0.000435	<0.000434	<0.000437	<0.000534	<0.000433	<0.0141	<0.000612	<0.000436	<0.000455	<0.000432	<0.000433	<0.000478
Dichlorobenzene, 1,3-	mg/kg	n/v	<0.000614	<0.000613	<0.000617	<0.000753	<0.000611	<0.0200	<0.000865	<0.000615	<0.000643	<0.000610	<0.000612	<0.000675
Dichlorobenzene, 1,4-	mg/kg	n/v	<0.000849	<0.000848	<0.000853	<0.00104	<0.000845	<0.0277	<0.00120	<0.000851	<0.000889	<0.000844	<0.000847	<0.000933
Dichlorodifluoromethane (Freon 12)	mg/kg	n/v	<0.000293	<0.000293	<0.000295	<0.000360	<0.000292	<0.00956	<0.000414	<0.000294	<0.000308	<0.000292	<0.000293	<0.000323
Dichloroethane, 1,1-	mg/kg	n/v	<0.000274	<0.000274	<0.000275	<0.000336	<0.000273	<0.00894	<0.000387	<0.000275	<0.000287	<0.000272	<0.000273	<0.000302
Dichloroethane, 1,2-	mg/kg	n/v	<0.000460	<0.000460	<0.000463	<0.000564	<0.000458	<0.0151	<0.000649	<0.000461	<0.000482	<0.000458	<0.000459	<0.000506
Dichloroethene, 1,1-	mg/kg	n/v	<0.000363	<0.000363	<0.000365	<0.000445	<0.000361	<0.0118	<0.000512	<0.000364	<0.000380	<0.000361	<0.000362	<0.000400
Dichloroethene, cis-1,2-	mg/kg	n/v	<0.000486	<0.000486	<0.000488	<0.000596	<0.000484	<0.0159	<0.000686	<0.000487	<0.000509	<0.000483	<0.000484	<0.000535
Dichloroethene, trans-1,2-	mg/kg	n/v	<0.000511	<0.000511	<0.000514	<0.000627	<0.000509	<0.0167	<0.000721	<0.000513	<0.000536	<0.000508	<0.000510	<0.000562
Dichloropropane, 1,2-	mg/kg	n/v	<0.000168	<0.000168	<0.000169	<0.000206	<0.000167	<0.00547	<0.000237	<0.000168	<0.000176	<0.000167	<0.000167	<0.000184
Dichloropropane, 1,3-	mg/kg	n/v	<0.000230	<0.000230	<0.000231	<0.000283	<0.000229	<0.00751	<0.000325	<0.000231	<0.000241	<0.000229	<0.000229	<0.000252
Dichloropropane, 2,2-	mg/kg	n/v	<0.000383	<0.000383	<0.000385	<0.000471	<0.000382	<0.0125	<0.000541	<0.000385	<0.000402	<0.000381	<0.000382	<0.000422
Dichloropropene, 1,1-	mg/kg	n/v	<0.000383	<0.000383	<0.000385	<0.000471	<0.000382	<0.0125	<0.000541	<0.000385	<0.000402	<0.000381	<0.000382	<0.000422
Dichloropropene, cis-1,3-	mg/kg	n/v	<0.000435	<0.000434	<0.000437	<0.000534	<0.000433	<0.0141	<0.000612	<0.000436	<0.000455	<0.000432	<0.000433	<0.000478
Dichloropropene, trans-1,3-	mg/kg	n/v	<0.000690	<0.000690	<0.000694	<0.000847	<0.000687	<0.0225	<0.000974	<0.000692	<0.000723	<0.000686	<0.000688	<0.000759
Diisopropyl Ether (DIPE)	mg/kg	n/v	<0.000226	<0.000226	<0.000227	<0.000278	<0.000225	<0.00737	<0.000318	<0.000227	<0.000237	<0.000225	<0.000225	<0.000248
Ethanol	mg/kg	n/v	**0.0991 J+**	**0.0886 J**	**0.0504 UJ3**	<0.0615	<0.0499	<1.64	<0.0706	<0.0502	<0.0525	<0.0498	<0.0500	<0.0551
Ethyl Tert Butyl Ether	mg/kg	n/v	<0.000256	<0.000256	<0.000257	<0.000314	<0.000255	<0.00833	<0.000361	<0.000256	<0.000268	<0.000254	<0.000255	<0.000281
Ethylbenzene	mg/kg	6	<0.000307	<0.000307	<0.000308	<0.000376	<0.000305	<0.0100	<0.000433	<0.000308	<0.000321	<0.000305	<0.000306	<0.000337
Ethylene Dibromide (Dibromoethane, 1,2-)	mg/kg	0.005	<0.000256	<0.000256	<0.000257	<0.000314	<0.000255	<0.00833	<0.000361	<0.000256	<0.000268	<0.000254	<0.000255	<0.000281
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	mg/kg	n/v	<0.000350	<0.000350	<0.000352	<0.000429	<0.000348	<0.0114	<0.000493	<0.000351	<0.000367	<0.000348	<0.000349	<0.000384
Isopropylbenzene	mg/kg	n/v	<0.000435	<0.000434	<0.000437	<0.000534	<0.000433	<0.0141	<0.000612	<0.000436	<0.000455	<0.000432	<0.000433	<0.000478
Isopropyltoluene, p- (Cymene)	mg/kg	n/v	**0.00600 J**	**0.0190 J**	**0.000593 J**	<0.000256	<0.000208	**0.00859 J**	<0.000294	<0.000209	<0.000219	<0.000207	<0.000208	<0.000229
Methyl Ethyl Ketone (MEK) (2-Butanone)	mg/kg	n/v	**0.00759 J+**	**0.00637 J**	**0.0114**	**0.00632 J**	**0.00722 J**	<0.156	**0.0129 J**	**0.00836 J**	**0.0583**	**0.00783 J**	<0.00477	**0.00602 J**
Methyl Isobutyl Ketone (MIBK)	mg/kg	n/v	<0.000971	<0.000971	<0.000977	<0.00119	<0.000967	<0.0317	<0.00137	**0.00213 J**	<0.00102	<0.000966	<0.000969	<0.00107
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	<0.000358	<0.000358	<0.000360	<0.000439	<0.000356	<0.0117	<0.000505	<0.000359	<0.000375	<0.000356	<0.000357	<0.000394
Methylene Chloride (Dichloromethane)	mg/kg	0.02	<0.00102	<0.00102	<0.00103	<0.00125	<0.00102	<0.0333	<0.00144	<0.00103	<0.00107	<0.00102	<0.00102	<0.00112
Naphthalene	mg/kg	5	<0.00509	<0.00509	<0.00512	<0.00625	<0.00507	<0.167	<0.00718	<0.00511	<0.00534	<0.00506	<0.00508	<0.00560
Propylbenzene, n-	mg/kg	n/v	<0.000211	<0.000211	<0.000212	<0.000258	<0.000210	<0.00687	<0.000298	<0.000211	<0.000221	<0.000209	<0.000210	<0.000232
Styrene	mg/kg	n/v	<0.000228	<0.000228	<0.000229	<0.000280	<0.000227	<0.00744	<0.000322	<0.000229	<0.000239	<0.000227	<0.000227	<0.000250
Tert Amyl Methyl Ether	mg/kg	n/v	<0.000409	<0.000409	<0.000411	<0.000502	<0.000407	<0.0133	<0.000577	<0.000410	<0.000429	<0.000407	<0.000408	<0.000450
Tert-Butyl Alcohol	mg/kg	n/v	<0.00256	<0.00256	**0.00268 J**	**0.00588 J**	**0.00621**	<0.0833	<0.00361	**0.00598 J**	<0.00268	**0.00668**	<0.00255	**0.00676**
Tetrachloroethane, 1,1,1,2-	mg/kg	n/v	<0.000303	<0.000303	<0.000304	<0.000371	<0.000301	<0.00987	<0.000427	<0.000304	<0.000317	<0.000301	<0.000302	<0.000333
Tetrachloroethane, 1,1,2,2-	mg/kg	n/v	<0.000236	<0.000236	<0.000237	<0.000290	<0.000235	<0.00769	<0.000333	<0.000237	<0.000248	<0.000235	<0.000236	<0.000260
Tetrachloroethene (PCE)	mg/kg	0.05	<0.000332	<0.000332	<0.000334	<0.000408	<0.000331	<0.0108	<0.000468	<0.000333	<0.000348	<0.000330	<0.000331	<0.000366
Toluene	mg/kg	7	**0.0121 J**	**0.0244**	**0.00162 J**	<0.00154	<0.00125	<0.0411	<0.00177	<0.00126	<0.00132	<0.00125	<0.00125	<0.00138
Trichlorobenzene, 1,2,3-	mg/kg	n/v	<0.000313	<0.000313	<0.000315	<0.000383	<0.000312	<0.0102	<0.000442	<0.000314	<0.000328	<0.000311	<0.000312	<0.000344
Trichlorobenzene, 1,2,4-	mg/kg	n/v	<0.000397	<0.000397	<0.000399	<0.000486	<0.000395	<0.0129	<0.000560	<0.000398	<0.000416	<0.000394	<0.000396	<0.000436
Trichloroethane, 1,1,1-	mg/kg	2	<0.000378	<0.000378	<0.000380	<0.000464	<0.000377	<0.0123	**0.000626 J**	<0.000379	<0.000397	<0.000376	<0.000377	<0.000416
Trichloroethane, 1,1,2-	mg/kg	n/v	<0.000435	<0.000434	<0.000437	<0.000534	<0.000433	<0.0141	<0.000612	<0.000436	<0.000455	<0.000432	<0.000433	<0.000478
Trichloroethene (TCE)	mg/kg	0.03	<0.000205	<0.000204	<0.000206	<0.000251	<0.000204	<0.00667	<0.000288	<0.000205	<0.000214	<0.000203	<0.000204	<0.000225
Trichlorofluoromethane (Freon 11)	mg/kg	n/v	<0.000364	<0.000364	<0.000366	<0.000446	<0.000363	<0.0119	<0.000514	<0.000365	<0.000382	<0.000362	<0.000363	<0.000401
Trichloropropane, 1,2,3-	mg/kg	n/v	<0.000249	<0.000249	<0.000251	<0.000306	<0.000248	<0.00813	<0.000351	<0.000250	<0.000261	<0.000248	<0.000249	<0.000274
Trichlorotrifluoroethane (Freon 113)	mg/kg	n/v	<0.000436	<0.000435	<0.000438	<0.000535	<0.000434	<0.0143	<0.000615	<0.000437	<0.000457	<0.000433	<0.000434	<0.000479
Trimethylbenzene, 1,2,3-	mg/kg	n/v	<0.000293	<0.000293	<0.000295	<0.000360	<0.000292	**0.0324 J**	<0.000414	<0.000294	<0.000308	<0.000292	<0.000293	<0.000323
Trimethylbenzene, 1,2,4-	mg/kg	n/v	**0.000297 J**	**0.000408 J**	<0.000217	<0.000264	<0.000215	**0.0264 J**	<0.000304	<0.000216	<0.000226	<0.000215	<0.000215	<0.000237
Trimethylbenzene, 1,3,5-	mg/kg	n/v	<0.000272	<0.000272	<0.000273	<0.000334	<0.000271	<0.00887	<0.000383	<0.000273	<0.000285	<0.000270	<0.000271	<0.000299
Vinyl Chloride	mg/kg	n/v	<0.000231	<0.000231	<0.000232	<0.000284	<0.000230	<0.00753	<0.000326	<0.000232	<0.000242	<0.000230	<0.000231	<0.000255
Xylenes, Total	mg/kg	9	<0.00307 UB	<0.00307 UB	<0.00308 UB	<0.00376 UB	<0.000509	**0.0603 J**	<0.00433 UB	<0.00308 UB	<0.000536	<0.000508	<0.00306 UB	<0.000562

Notes:

MTCA CULs — Washington Department of Ecology Model Toxics Control Act Cleanup Levels

A — Method A Unrestricted Land Use - Soil (August 2020)
TPH-GRO CUL is 100 mg/kg when no benzene is present and the total of ethylbenzene, toluene an xylene are less than 1% of the gasoline mixture. 30 mg/kg for all other gasoline mixtures.

6.5 — Concentration exceeds the indicated standard A.

15.2 — Measured concentration did not exceed the indicated standard.

<0.50 — Non-detect value exceeds the criteria.

<0.03 — Analyte was not detected at a concentration greater than the laboratory method detection limit.

TPH — Total Petroleum Hydrocarbon

TEF — Toxicity Equivalence Factor

TEC — Toxicity Equivalence Concentration
TEQ = cPAH concentration x TEF

Soil results are reported on a dry-weight basis.

Data Validation Qualifiers:

J — The reported result is an estimated value.

Table 1
Summary of Soil Analytical Results
Phase II Environmental Site Assessment
130 E Sprague Avenue
Spokane, Washington

Sample Location	Units	MTCA CULs	SR-BH01		SR-BH02	SR-BH03	SR-BH04	SR-BH05	SR-BH06	SR-BH07	SR-BH08	SR-BH09	SR-BH10	
Sample Date			17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20	17-Sep-20
Sample ID			SR-BH01SO 1.5-2.0	SR-FD01SO	SR-BH02SO 0.5-1.0	SR-BH03SO 0.5-1.0	SR-BH04SO 0.5-1.0	SR-BH05SO 2-2.5	SR-BH06SO 2-3	SR-BH07SO 0.5-1.0	SR-BH08SO 0.5-1.0	SR-BH09SO 2-3	SR-BH10SO 3-3.5	SR-BH10SO 6.5-7
Sample Depth		Method A	1.5 - 2 ft	1.5 - 2 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	2 - 2.5 ft	2 - 3 ft	0.5 - 1 ft	0.5 - 1 ft	2 - 3 ft	3 - 3.5 ft	6.5 - 7 ft
Sample Type			Primary	Field Duplicate	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
		A												

Blank cell	no screening level applies
cPAH	Carcinogenic PAH
CUL	Cleanup Level
mg/kg	milligrams per kilogram
n/v	No standard/guideline value.

J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UB	Analyte is considered not detected due to the concentration detected in an associated blank.
UJ	Indicates estimated non-detect.

Table 2
Summary of Investigation Derived Waste (Soil) Analytical Results
Phase II Environmental Site Assessment
130 E Sprague Avenue
Spokane, Washington

Sample Location Sample Date Sample ID Sample Type	Units	EPA TCLP Trigger Value	EPA TCLP Limit	SR-IDW 17-Sep-20 SR-IDWSO Primary
Metals (6020B, 7471B)				
Arsenic	mg/kg	100	n/a	**9.48**
Barium	mg/kg	2,000	n/a	**136**
Cadmium	mg/kg	20	n/a	**0.651**
Chromium	mg/kg	100	n/a	**14.6**
Copper	mg/kg	n/v	n/a	**83.2**
Lead	mg/kg	100	n/a	**717**
Mercury	mg/kg	4	n/a	**0.0352 J**
Nickel	mg/kg	n/v	n/a	**14.8**
Selenium	mg/kg	20	n/a	<0.664
Silver	mg/kg	100	n/a	<0.245
Zinc	mg/kg	n/v	n/a	**207**
TCLP Metals (6010D)				
Lead	mg/L	n/a	5	**0.301**
Semi-Volatile Organic Compounds (8270E)				
Acenaphthene	mg/kg	n/v	n/a	<0.0116
Acenaphthylene	mg/kg	n/v	n/a	<0.0101
Anthracene	mg/kg	n/v	n/a	<0.0128
Benzidine	mg/kg	n/v	n/a	<0.135
Benzo(a)anthracene	mg/kg	n/v	n/a	**0.0335 J**
Benzo(a)pyrene	mg/kg	n/v	n/a	**0.0368 J**
Benzo(b)fluoranthene	mg/kg	n/v	n/a	**0.0454 J**
Benzo(g,h,i)perylene	mg/kg	n/v	n/a	**0.0308 J**
Benzo(k)fluoranthene	mg/kg	n/v	n/a	**0.0156 J**
Bis(2-Chloroethoxy)methane	mg/kg	n/v	n/a	<0.0215
Bis(2-Chloroethyl)ether	mg/kg	n/v	n/a	<0.0237
Bis(2-Chloroisopropyl)ether (2,2-oxybis(1-Chloropropane))	mg/kg	n/v	n/a	<0.0310
Bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	n/v	n/a	<0.0908
Bromophenyl Phenyl Ether, 4-	mg/kg	n/v	n/a	<0.0252
Butyl Benzyl Phthalate	mg/kg	n/v	n/a	<0.0224
Chloro-3-methyl phenol, 4-	mg/kg	n/v	n/a	<0.0232
Chloronaphthalene, 2-	mg/kg	n/v	n/a	<0.0126
Chlorophenol, 2- (ortho-Chlorophenol)	mg/kg	n/v	n/a	<0.0237
Chlorophenyl Phenyl Ether, 4-	mg/kg	n/v	n/a	<0.0250
Chrysene	mg/kg	n/v	n/a	**0.0387 J**
Dibenzo(a,h)anthracene	mg/kg	n/v	n/a	<0.0199
Dibutyl Phthalate (DBP)	mg/kg	n/v	n/a	<0.0245
Dichlorobenzene, 1,2-	mg/kg	n/v	n/a	<0.0212
Dichlorobenzene, 1,3-	mg/kg	n/v	n/a	<0.0217
Dichlorobenzene, 1,4-	mg/kg	150	n/a	<0.0213
Dichlorobenzidine, 3,3'-	mg/kg	n/v	n/a	<0.0265
Dichlorophenol, 2,4-	mg/kg	n/v	n/a	<0.0209
Diethyl Phthalate	mg/kg	n/v	n/a	<0.0237
Dimethyl Phthalate	mg/kg	n/v	n/a	<0.152
Dimethylphenol, 2,4-	mg/kg	n/v	n/a	<0.0187
Dinitro-o-cresol, 4,6-	mg/kg	n/v	n/a	<0.162
Dinitrophenol, 2,4-	mg/kg	n/v	n/a	<0.168
Dinitrotoluene, 2,4-	mg/kg	2.6	n/a	<0.0206
Dinitrotoluene, 2,6-	mg/kg	n/v	n/a	<0.0235
Di-n-Octyl phthalate	mg/kg	n/v	n/a	<0.0484
Fluoranthene	mg/kg	n/v	n/a	**0.0385 J**
Fluorene	mg/kg	n/v	n/a	<0.0116
Hexachlorobenzene	mg/kg	2.6	n/a	<0.0254
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	mg/kg	10	n/a	<0.0241
Hexachlorocyclopentadiene	mg/kg	n/v	n/a	<0.0377
Hexachloroethane	mg/kg	60	n/a	<0.0282
Indeno(1,2,3-cd)pyrene	mg/kg	n/v	n/a	**0.0302 J**
Isophorone	mg/kg	n/v	n/a	<0.0220
Naphthalene	mg/kg	n/v	n/a	<0.0180
Nitrobenzene	mg/kg	40	n/a	<0.0250
Nitrophenol, 2-	mg/kg	n/v	n/a	<0.0256
Nitrophenol, 4-	mg/kg	n/v	n/a	<0.0224
N-Nitrosodimethylamine (NDMA)	mg/kg	n/v	n/a	<0.106
N-Nitrosodi-n-Propylamine	mg/kg	n/v	n/a	<0.0239
n-Nitrosodiphenylamine	mg/kg	n/v	n/a	<0.0542
Pentachlorophenol	mg/kg	2,000	n/a	<0.0193
Phenanthrene	mg/kg	n/v	n/a	**0.0224 J**
Phenol	mg/kg	n/v	n/a	<0.0288
Pyrene	mg/kg	n/v	n/a	**0.0487 J**
Trichlorobenzene, 1,2,4-	mg/kg	n/v	n/a	<0.0224
Trichlorophenol, 2,4,6-	mg/kg	40	n/a	<0.0230
Volatile Organic Compounds (8260D)				
Acetone	mg/kg	n/v	n/a	**0.179**
Acrylonitrile	mg/kg	n/v	n/a	<0.00217
Benzene	mg/kg	10	n/a	**0.00161**
Bromobenzene	mg/kg	n/v	n/a	<0.000296
Bromodichloromethane	mg/kg	n/v	n/a	<0.000780
Bromoform (Tribromomethane)	mg/kg	n/v	n/a	<0.000456
Bromomethane (Methyl bromide)	mg/kg	n/v	n/a	<0.00126
Butylbenzene, n-	mg/kg	n/v	n/a	<0.000278
Butylbenzene, sec- (2-Phenylbutane)	mg/kg	n/v	n/a	<0.000216
Butylbenzene, tert-	mg/kg	n/v	n/a	<0.000222
Carbon Tetrachloride (Tetrachloromethane)	mg/kg	10	n/a	<0.000267
Chlorobenzene (Monochlorobenzene)	mg/kg	2,000	n/a	<0.000207
Chloroethane (Ethyl Chloride)	mg/kg	n/v	n/a	<0.00108
Chloroform (Trichloromethane)	mg/kg	120	n/a	<0.00111
Chloromethane	mg/kg	n/v	n/a	<0.000699
Chlorotoluene, 2-	mg/kg	n/v	n/a	<0.000242
Chlorotoluene, 4-	mg/kg	n/v	n/a	<0.000744
Dibromo-3-Chloropropane, 1,2- (DBCP)	mg/kg	n/v	n/a	<0.00204
Dibromochloromethane	mg/kg	n/v	n/a	<0.000241
Dibromomethane (Methylene Bromide)	mg/kg	n/v	n/a	<0.000377
Dichlorobenzene, 1,2-	mg/kg	n/v	n/a	<0.000457
Dichlorobenzene, 1,3-	mg/kg	n/v	n/a	<0.000646
Dichlorobenzene, 1,4-	mg/kg	150	n/a	<0.000893
Dichlorodifluoromethane (Freon 12)	mg/kg	n/v	n/a	<0.000309
Dichloroethane, 1,1-	mg/kg	n/v	n/a	<0.000288
Dichloroethane, 1,2-	mg/kg	10	n/a	<0.000484
Dichloroethene, 1,1-	mg/kg	14	n/a	<0.000382
Dichloroethene, cis-1,2-	mg/kg	n/v	n/a	<0.000511
Dichloroethene, trans-1,2-	mg/kg	n/v	n/a	<0.000538
Dichloropropane, 1,2-	mg/kg	n/v	n/a	<0.000176
Dichloropropane, 1,3-	mg/kg	n/v	n/a	<0.000242
Dichloropropane, 2,2-	mg/kg	n/v	n/a	<0.000404
Dichloropropene, 1,1-	mg/kg	n/v	n/a	<0.000404
Dichloropropene, cis-1,3-	mg/kg	n/v	n/a	<0.000457
Dichloropropene, trans-1,3-	mg/kg	n/v	n/a	<0.000726
Diisopropyl Ether (DIPE)	mg/kg	n/v	n/a	<0.000238
Ethanol	mg/kg	n/v	n/a	<0.0527
Ethyl Tert Butyl Ether	mg/kg	n/v	n/a	<0.000269
Ethylbenzene	mg/kg	n/v	n/a	<0.000323
Ethylene Dibromide (Dibromoethane, 1,2-)	mg/kg	n/v	n/a	<0.000269
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	mg/kg	10	n/a	<0.000368
Isopropylbenzene	mg/kg	n/v	n/a	<0.000457
Isopropyltoluene, p- (Cymene)	mg/kg	n/v	n/a	**0.000305 J**

Table 2
Summary of Investigation Derived Waste (Soil) Analytical Results
Phase II Environmental Site Assessment
130 E Sprague Avenue
Spokane, Washington

Sample Location Sample Date Sample ID Sample Type	Units	EPA TCLP Trigger Value	EPA TCLP Limit	SR-IDW 17-Sep-20 SR-IDWSO Primary
Methyl Ethyl Ketone (MEK) (2-Butanone)	mg/kg	4,000	n/a	**0.0110**
Methyl Isobutyl Ketone (MIBK)	mg/kg	n/v	n/a	<0.00102
Methyl tert-butyl ether (MTBE)	mg/kg	n/v	n/a	<0.000377
Methylene Chloride (Dichloromethane)	mg/kg	n/v	n/a	<0.00108
Naphthalene	mg/kg	n/v	n/a	<0.00536
Propylbenzene, n-	mg/kg	n/v	n/a	<0.000222
Styrene	mg/kg	n/v	n/a	<0.000240
Tert Amyl Methyl Ether	mg/kg	n/v	n/a	<0.000430
Tert-Butyl Alcohol	mg/kg	n/v	n/a	**0.00643**
Tetrachloroethane, 1,1,1,2-	mg/kg	n/v	n/a	<0.000319
Tetrachloroethane, 1,1,2,2-	mg/kg	n/v	n/a	<0.000249
Tetrachloroethene (PCE)	mg/kg	14	n/a	<0.000350
Toluene	mg/kg	n/v	n/a	<0.00132
Trichlorobenzene, 1,2,3-	mg/kg	n/v	n/a	<0.000329
Trichlorobenzene, 1,2,4-	mg/kg	n/v	n/a	<0.000418
Trichloroethane, 1,1,1-	mg/kg	n/v	n/a	<0.000398
Trichloroethane, 1,1,2-	mg/kg	n/v	n/a	<0.000457
Trichloroethene (TCE)	mg/kg	10	n/a	<0.000215
Trichlorofluoromethane (Freon 11)	mg/kg	n/v	n/a	<0.000383
Trichloropropane, 1,2,3-	mg/kg	n/v	n/a	<0.000263
Trichlorotrifluoroethane (Freon 113)	mg/kg	n/v	n/a	<0.000458
Trimethylbenzene, 1,2,3-	mg/kg	n/v	n/a	<0.000309
Trimethylbenzene, 1,2,4-	mg/kg	n/v	n/a	<0.000227
Trimethylbenzene, 1,3,5-	mg/kg	n/v	n/a	<0.000286
Vinyl Chloride	mg/kg	4	n/a	<0.000243
Xylenes, Total	mg/kg	n/v	n/a	<0.000538

Notes:
TCLP extraction should be performed if a constituent concentration equals or exceeds the TCLP trigger value. The TCLP trigger value is equal to twenty-times the EPA TCLP limit.

15.2	Measured concentration did not exceed the indicated standard.
6.5	Concentration exceeds the indicated standard
<0.03	Analyte was not detected at a concentration greater than the method detection limit.
EPA	United States Environmental Protection Agency
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
n/a	Not applicable
n/v	No standard/guideline value.
TCLP	Toxicity Characteristic Leaching Procedure

Laboratory Qualifiers:

J	The reported result is an estimated value.

APPENDIX A

Geophysical Survey Figures

1 Inch = 20 Feet

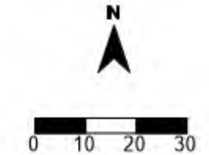
0 20

Legend

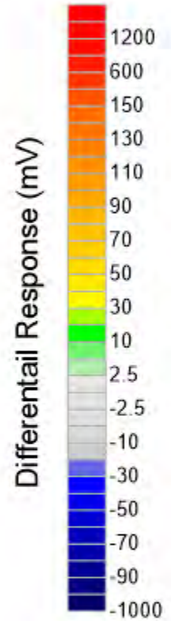
- 2.0 — Depth to top in feet
- E — Unidentified utility
- E — Electrical line
- COM — Communication line
- SD — Storm drain
- GAS — Gas line
- W — Water line
- Boring — Boring location
- Excavation boundary
- Non-metallic GPR anomaly

GEOPHYSICAL SURVEY LLC

FIGURE 4
Geophysical Interpretation
130 E Sprague Ave,
Spokane, WA



Washington State Plane
NAD83CORS96



GEOPHYSICAL SURVEY LLC

FIGURE 8
EM Contours
130 E Sprague Ave.
Spokane, WA

APPENDIX B

Boring Logs

PROJECT: **Site 8: 130 East Sprague Avenue**
LOCATION: **138 East Sprague Avenue, Spokane WA**
PROJECT NUMBER: **185751194**

WELL / PROBEHOLE / BOREHOLE NO: **BH01** PAGE 1 OF 1

Stantec

DRILLING / INSTALLATION:
STARTED **9/17/20** COMPLETED: **9/17/20**
DRILLING COMPANY: **Steadfast Services Northwest, LLC**
DRILLING EQUIPMENT: **2" Hand Auger**
DRILLING METHOD: **Hand Auger**
SAMPLING EQUIPMENT: **Zip-Top Bag**

NORTHING (ft): **258,485**
LAT: **47° 39' 25.74"**
GROUND ELEV (ft): **1,927**
INITIAL DTW (ft): **Not Encountered**
STATIC DTW (ft): **Not Encountered**
WELL CASING DIA. (in): **--**
LOGGED BY: **A. Wisher**

EASTING (ft): **2,484,141**
LONG: **-117° 24' 31.03"**
TOC ELEV (ft): **--**
WELL DEPTH (ft): **---**
BOREHOLE DEPTH (ft): **2.0**
BOREHOLE DIA. (in): **2.25**
CHECKED BY: **J. Hammer**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
1650		SP-SM	**SILTY SAND** ; SP-SM; light brown; fine to medium-grained; very loose; dry; poorly graded; no odor; no staining			0.5		0	
						0.5			
1						0.5			
					SR-BH01SO 1.5-2.0, SR-FD01SO	0.5		0	
1710			Basalt bedrock Refusal at 2 feet. Borehole terminated at 2 feet.						
2									
3									
4									

GEO FORM 304 LOG_130_E_SPRAGUE_AVE_20201029.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 11/11/20

PROJECT: **Site 8: 130 East Sprague Avenue**
LOCATION: **138 East Sprague Avenue, Spokane WA**
PROJECT NUMBER: **185751194**

WELL / PROBEHOLE / BOREHOLE NO: **BH02** PAGE 1 OF 1

Stantec

DRILLING / INSTALLATION:
STARTED **9/17/20** COMPLETED: **9/17/20**
DRILLING COMPANY: **Steadfast Services Northwest, LLC**
DRILLING EQUIPMENT: **2" Hand Auger**
DRILLING METHOD: **Hand Auger**
SAMPLING EQUIPMENT: **Zip-Top Bag**

NORTHING (ft): **258,485**
LAT: **47° 39' 25.74"**
GROUND ELEV (ft): **1,928**
INITIAL DTW (ft): **Not Encountered**
STATIC DTW (ft): **Not Encountered**
WELL CASING DIA. (in): **--**
LOGGED BY: **A. Wisher**

EASTING (ft): **2,484,135**
LONG: **-117° 24' 31.12"**
TOC ELEV (ft): **--**
WELL DEPTH (ft): **---**
BOREHOLE DEPTH (ft): **1.5**
BOREHOLE DIA. (in): **2.25**
CHECKED BY: **J. Hammer**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
1625		SP-SM	**SILTY SAND** ; SP-SM; light brown; fine to medium-grained; very loose; dry; poorly graded; no odor; no staining		SR-BH02SO 0.5-1.0	0.5 0.5 0.5		0	
1650 1			Basalt bedrock Refusal at 1.5 feet. Borehole terminated at 1.5 feet.						
2									
3									
4									

GEO FORM 304 LOG_130_E_SPRAGUE_AVE_20201029.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 11/11/20

PROJECT: **Site 8: 130 East Sprague Avenue**
LOCATION: **138 East Sprague Avenue, Spokane WA**
PROJECT NUMBER: **185751194**

WELL / PROBEHOLE / BOREHOLE NO: **BH03** PAGE 1 OF 1

Stantec

DRILLING / INSTALLATION:
STARTED **9/17/20** COMPLETED: **9/17/20**
DRILLING COMPANY: **Steadfast Services Northwest, LLC**
DRILLING EQUIPMENT: **GeoProbe 5410**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macro-Core**

NORTHING (ft): **258,469**
LAT: **47° 39' 25.55"**
GROUND ELEV (ft): **1,932**
INITIAL DTW (ft): **Not Encountered**
STATIC DTW (ft): **Not Encountered**
WELL CASING DIA. (in): **--**
LOGGED BY: **A. Wisher**

EASTING (ft): **2,484,211**
LONG: **-117° 24' 30.02"**
TOC ELEV (ft): **--**
WELL DEPTH (ft): **---**
BOREHOLE DEPTH (ft): **1.0**
BOREHOLE DIA. (in): **2.25**
CHECKED BY: **J. Hammer**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
1600			Asphalt						
			Asphalt base material (gravel fill)						
		SP-SM	**SILTY SAND AND GRAVEL** ; SP-SM; light brown; fine to medium-grained; loose; dry; poorly graded; no odor; no staining		SR-BH03SO 0.5-1.0	1		0	
1612	1		Basalt bedrock Refusal at 1 feet. Borehole terminated at 1 feet.						

2

3

4

GEO FORM 304 LOG_130_E_SPRAGUE_AVE_20201029.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 11/11/20

PROJECT: **Site 8: 130 East Sprague Avenue**
LOCATION: **138 East Sprague Avenue, Spokane WA**
PROJECT NUMBER: **185751194**

WELL / PROBEHOLE / BOREHOLE NO: **BH04** PAGE 1 OF 1

Stantec

DRILLING / INSTALLATION:
STARTED **9/17/20** COMPLETED: **9/17/20**
DRILLING COMPANY: **Steadfast Services Northwest, LLC**
DRILLING EQUIPMENT: **GeoProbe 5410**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macro-Core**

NORTHING (ft): **258,406**
LAT: **47° 39' 24.94"**
GROUND ELEV (ft): **1,939**
INITIAL DTW (ft): **Not Encountered**
STATIC DTW (ft): **Not Encountered**
WELL CASING DIA. (in): **--**
LOGGED BY: **A. Wisher**

EASTING (ft): **2,484,197**
LONG: **-117° 24' 30.27"**
TOC ELEV (ft): **--**
WELL DEPTH (ft): **---**
BOREHOLE DEPTH (ft): **1.0**
BOREHOLE DIA. (in): **2.25**
CHECKED BY: **J. Hammer**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
1440			Gravel fill						
		SP-SM	**SILTY SAND** ; SP-SM; light brown; fine to medium-grained; loose; dry; poorly graded; no odor; no staining		SR-BH04SO 0.5-1.0	1		0	
1450 1			Basalt bedrock Refusal at 1 feet. Borehole terminated at 1 feet.						
2									
3									
4									

GEO FORM 304 LOG_130_E_SPRAGUE_AVE_20201029.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 11/11/20

PROJECT: **Site 8: 130 East Sprague Avenue**
LOCATION: **138 East Sprague Avenue, Spokane WA**
PROJECT NUMBER: **185751194**

WELL / PROBEHOLE / BOREHOLE NO: **BH05** PAGE 1 OF 1

Stantec

DRILLING / INSTALLATION:
STARTED **9/17/20** COMPLETED: **9/17/20**
DRILLING COMPANY: **Steadfast Services Northwest, LLC**
DRILLING EQUIPMENT: **GeoProbe 5410**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macro-Core**

NORTHING (ft): **258,500**
LAT: **47° 39' 25.87"**
GROUND ELEV (ft): **1,928**
INITIAL DTW (ft): **Not Encountered**
STATIC DTW (ft): **Not Encountered**
WELL CASING DIA. (in): **--**
LOGGED BY: **A. Wisher**

EASTING (ft): **2,484,170**
LONG: **-117° 24' 30.6"**
TOC ELEV (ft): **--**
WELL DEPTH (ft): **---**
BOREHOLE DEPTH (ft): **2.5**
BOREHOLE DIA. (in): **2.25**
CHECKED BY: **J. Hammer**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
1600			Concrete			0.75		0	
			Concrete base material (gravel fill)						
1									
		SP-SM	**SILTY SAND AND GRAVEL** ; SP-SM; dark brown; fine to medium-grained; loose; moist; poorly graded; no odor; no staining			2			
2					SR-BH05SO 2.0-2.5			0	
1605			Basalt bedrock Refusal at 2.5 feet. Borehole terminated at 2.5 feet.						
3									
4									

GEO FORM 304 LOG_130_E_SPRAGUE_AVE_20201029.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 11/11/20

PROJECT: **Site 8: 130 East Sprague Avenue**
LOCATION: **138 East Sprague Avenue, Spokane WA**
PROJECT NUMBER: **185751194**

WELL / PROBEHOLE / BOREHOLE NO: **BH06** PAGE 1 OF 1

Stantec

DRILLING / INSTALLATION:
STARTED **9/17/20** COMPLETED: **9/17/20**
DRILLING COMPANY: **Steadfast Services Northwest, LLC**
DRILLING EQUIPMENT: **GeoProbe 5410**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macro-Core**

NORTHING (ft): **258,430**
LAT: **47° 39' 25.2"**
GROUND ELEV (ft): **1,939**
INITIAL DTW (ft): **Not Encountered**
STATIC DTW (ft): **Not Encountered**
WELL CASING DIA. (in): **--**
LOGGED BY: **A. Wisher**

EASTING (ft): **2,484,131**
LONG: **-117° 24' 31.21"**
TOC ELEV (ft): **--**
WELL DEPTH (ft): **---**
BOREHOLE DEPTH (ft): **3.0**
BOREHOLE DIA. (in): **2.25**
CHECKED BY: **J. Hammer**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
1515			Gravel fill						
		SP-SM	**SILTY SAND AND GRAVEL** ; SP-SM; brown; fine to medium-grained; loose; dry; poorly graded; no odor; no staining					0.2	
1								0.1	
		SP-SM	**SILTY SAND WITH ORGANICS** ; SP-SM; blackish brown; fine-grained; loose; dry; well graded; no odor; no staining			2			
2					SR-BH06SO 2.0-3.0			0.1	
								0	
1528 3			Basalt bedrock Refusal at 3 feet. Borehole terminated at 3 feet.						
4									

GEO FORM 304 LOG_130_E_SPRAGUE_AVE_20201029.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 11/11/20

PROJECT: **Site 8: 130 East Sprague Avenue**
LOCATION: **138 East Sprague Avenue, Spokane WA**
PROJECT NUMBER: **185751194**

WELL / PROBEHOLE / BOREHOLE NO: **BH07** PAGE 1 OF 1

Stantec

DRILLING / INSTALLATION:
STARTED **9/17/20** COMPLETED: **9/17/20**
DRILLING COMPANY: **Steadfast Services Northwest, LLC**
DRILLING EQUIPMENT: **GeoProbe 5410**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macro-Core**

NORTHING (ft): **258,371**
LAT: **47° 39' 24.6"**
GROUND ELEV (ft): **1,939**
INITIAL DTW (ft): **Not Encountered**
STATIC DTW (ft): **Not Encountered**
WELL CASING DIA. (in): **--**
LOGGED BY: **A. Wisher**

EASTING (ft): **2,484,169**
LONG: **-117° 24' 30.69"**
TOC ELEV (ft): **--**
WELL DEPTH (ft): **---**
BOREHOLE DEPTH (ft): **1.0**
BOREHOLE DIA. (in): **2.25**
CHECKED BY: **J. Hammer**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
1445			Gravel fill						
		SP-SM	**SILTY SAND AND GRAVEL** ; SP-SM; brown; fine to medium-grained; loose; dry; poorly graded; no odor; no staining		SR-BH07SO 0.5-1.0	1		0	
1500 1			Basalt bedrock Refusal at 1 feet. Borehole terminated at 1 feet.						
2									
3									
4									

PROJECT: **Site 8: 130 East Sprague Avenue**
LOCATION: **138 East Sprague Avenue, Spokane WA**
PROJECT NUMBER: **185751194**

WELL / PROBEHOLE / BOREHOLE NO: **BH08** PAGE 1 OF 1

Stantec

DRILLING / INSTALLATION:
STARTED **9/17/20** COMPLETED: **9/17/20**
DRILLING COMPANY: **Steadfast Services Northwest, LLC**
DRILLING EQUIPMENT: **GeoProbe 5410**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macro-Core**

NORTHING (ft): **258,347**
LAT: **47° 39' 24.39"**
GROUND ELEV (ft): **1,940**
INITIAL DTW (ft): **Not Encountered**
STATIC DTW (ft): **Not Encountered**
WELL CASING DIA. (in): **--**
LOGGED BY: **A. Wisher**

EASTING (ft): **2,484,119**
LONG: **-117° 24' 31.44"**
TOC ELEV (ft): **--**
WELL DEPTH (ft): **---**
BOREHOLE DEPTH (ft): **1.0**
BOREHOLE DIA. (in): **2.25**
CHECKED BY: **J. Hammer**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
1525			Gravel fill						
		SP-SM	**SILTY SAND AND GRAVEL** ; SP-SM; brown; fine to medium-grained; loose; dry; poorly graded; no odor; no staining		SR-BH08SO 0.5-1.0	1		0	
1545 1			Basalt bedrock Refusal at 1 feet. Borehole terminated at 1 feet.						
2									
3									
4									

GEO FORM 304 LOG_130_E_SPRAGUE_AVE_20201029.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 11/11/20

PROJECT: **Site 8: 130 East Sprague Avenue**
LOCATION: **138 East Sprague Avenue, Spokane WA**
PROJECT NUMBER: **185751194**

WELL / PROBEHOLE / BOREHOLE NO: **BH09** PAGE 1 OF 1

Stantec

DRILLING / INSTALLATION:
STARTED **9/17/20** COMPLETED: **9/17/20**
DRILLING COMPANY: **Steadfast Services Northwest, LLC**
DRILLING EQUIPMENT: **GeoProbe 5410**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macro-Core**

NORTHING (ft): **258,404**
LAT: **47° 39' 24.94"**
GROUND ELEV (ft): **1,939**
INITIAL DTW (ft): **Not Encountered**
STATIC DTW (ft): **Not Encountered**
WELL CASING DIA. (in): **--**
LOGGED BY: **A. Wisher**

EASTING (ft): **2,484,138**
LONG: **-117° 24' 31.12"**
TOC ELEV (ft): **--**
WELL DEPTH (ft): **---**
BOREHOLE DEPTH (ft): **3.0**
BOREHOLE DIA. (in): **2.25**
CHECKED BY: **J. Hammer**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
1500			Gravel fill						
1		SP-SM	**SILTY SAND TRACE GRAVEL** ; SP-SM; light brown; fine to medium-grained; loose; dry; poorly graded; no odor; no staining; woody debris (fill)					0	
		GM	**SILTY GRAVEL AND SAND** ; GM; brown; fine to medium-grained; loose; dry; no odor; no staining			2.25			
2					SR-BH09SO 2.0-3.0			0	
								0	
1520 3			Basalt bedrock Refusal at 3 feet. Borehole terminated at 3 feet.						
4									

GEO FORM 304 LOG_130_E_SPRAGUE_AVE_20201029.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 11/11/20

PROJECT: **Site 8: 130 East Sprague Avenue**
LOCATION: **138 East Sprague Avenue, Spokane WA**
PROJECT NUMBER: **185751194**

WELL / PROBEHOLE / BOREHOLE NO: **BH10** PAGE 1 OF 1

Stantec

DRILLING / INSTALLATION:
STARTED **9/17/20** COMPLETED: **9/17/20**
DRILLING COMPANY: **Steadfast Services Northwest, LLC**
DRILLING EQUIPMENT: **GeoProbe 5410**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macro-Core**

NORTHING (ft): **258,391**
LAT: **47° 39' 24.81"**
GROUND ELEV (ft): **1,939**
INITIAL DTW (ft): **Not Encountered**
STATIC DTW (ft): **Not Encountered**
WELL CASING DIA. (in): **--**
LOGGED BY: **A. Wisher**

EASTING (ft): **2,484,139**
LONG: **-117° 24' 31.11"**
TOC ELEV (ft): **--**
WELL DEPTH (ft): **---**
BOREHOLE DEPTH (ft): **7.0**
BOREHOLE DIA. (in): **2.25**
CHECKED BY: **J. Hammer**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
1450			Gravel fill						
		GM	**SILTY GRAVEL AND SAND** ; GM; brown; fine to medium-grained; loose; dry; no odor; no staining; woody debris (fill)					0	
1									
						3.25		0	
2									
								0	
3					SR-BH10SO 3.0-3.5				
1505									
4									
								0	5
5						2.75			
6									
					SR-BH10SO 6.5-7.0			0	
1510 7			Basalt bedrock Refusal at 7 feet. Borehole terminated at 7 feet.						

GEO FORM 304 LOG_130_E_SPRAGUE_AVE_20201029.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 11/11/20

APPENDIX C

Laboratory Reports

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

October 16, 2020

Revised Report

Stantec - Lynnwood, WA

Sample Delivery Group:	L1265434
Samples Received:	09/23/2020
Project Number:	185751194
Description:	Site 02: 130 East Sprague Avenue

Report To:

Cyrus Gorman
4100 194th Street SW
Suite 400
Lynnwood, WA 98036

Entire Report Reviewed By:

[Preliminary Report]

Jared Starkey
Project Manager

TABLE OF CONTENTS

SR-FD01SO L1265434-01 Solid

Collected by: Aaron Wisher | Collected date/time: 09/17/20 07:30 | Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1550921	1	09/29/20 14:30	09/29/20 14:37	KBC	Mt. Juliet, TN
Mercury by Method 7471B	WG1550155	1	09/27/20 14:48	09/28/20 13:20	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 03:15	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 16:19	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1551375	1	09/17/20 07:30	09/30/20 08:06	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552502	1	09/17/20 07:30	10/01/20 15:01	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1551501	1	09/30/20 12:03	09/30/20 21:46	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1551517	1	09/30/20 19:35	10/01/20 18:07	JNJ	Mt. Juliet, TN

SR-TB01 L1265434-02 GW

Collected by: Aaron Wisher | Collected date/time: 09/17/20 08:00 | Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1551118	1	09/30/20 20:52	09/30/20 20:52	JAH	Mt. Juliet, TN

SR-BH05SO 2-2.5 L1265434-03 Solid

Collected by: Aaron Wisher | Collected date/time: 09/17/20 16:05 | Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1550921	1	09/29/20 14:30	09/29/20 14:37	KBC	Mt. Juliet, TN
Mercury by Method 7471B	WG1550155	1	09/27/20 14:48	09/28/20 13:23	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 03:19	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 16:22	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1551375	1	09/17/20 16:05	09/30/20 08:27	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552972	25	09/17/20 16:05	10/02/20 16:38	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1551543	1	09/30/20 13:58	09/30/20 23:05	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1551517	1	09/30/20 19:35	10/01/20 17:44	JNJ	Mt. Juliet, TN

SR-BH02SO 0.5-1.0 L1265434-04 Solid

Collected by: Aaron Wisher | Collected date/time: 09/17/20 16:50 | Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1550921	1	09/29/20 14:30	09/29/20 14:37	KBC	Mt. Juliet, TN
Mercury by Method 7471B	WG1550155	1	09/27/20 14:48	09/28/20 13:25	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 03:22	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 16:25	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1551375	1	09/17/20 16:50	09/30/20 08:47	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552502	1	09/17/20 16:50	10/01/20 15:45	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1551543	4	09/30/20 13:58	10/01/20 00:24	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1551698	1	09/30/20 19:33	10/01/20 15:26	JNJ	Mt. Juliet, TN

SR-BH01SO 1.5-2.0 L1265434-05 Solid

Collected by: Aaron Wisher | Collected date/time: 09/17/20 17:10 | Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1550921	1	09/29/20 14:30	09/29/20 14:37	KBC	Mt. Juliet, TN
Mercury by Method 7471B	WG1550155	1	09/27/20 14:48	09/28/20 12:49	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 02:59	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 16:02	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1551593	25	09/17/20 17:10	09/30/20 23:59	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552502	1	09/17/20 17:10	10/01/20 16:06	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1551543	1	09/30/20 13:58	09/30/20 23:18	DMG	Mt. Juliet, TN

SR-BH01SO 1.5-2.0 L1265434-05 Solid

Collected by: Aaron Wisher | Collected date/time: 09/17/20 17:10 | Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1551698	1	09/30/20 19:33	10/01/20 13:42	JNJ	Mt. Juliet, TN

SR-BH03SO 0.5-1.0 L1265434-06 Solid

Collected by: Aaron Wisher | Collected date/time: 09/17/20 16:12 | Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1550922	1	09/29/20 14:21	09/29/20 14:29	KBC	Mt. Juliet, TN
Mercury by Method 7471B	WG1550155	1	09/27/20 14:48	09/28/20 13:28	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 03:32	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 16:39	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1551375	1.01	09/17/20 16:12	09/30/20 09:08	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552502	1.22	09/17/20 16:12	10/01/20 16:28	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1551543	1	09/30/20 13:58	09/30/20 23:57	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1551698	1	09/30/20 19:33	10/01/20 14:44	JNJ	Mt. Juliet, TN

SR-BH06SO 2-3 L1265434-07 Solid

Collected by: Aaron Wisher | Collected date/time: 09/17/20 15:28 | Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1550922	1	09/29/20 14:21	09/29/20 14:29	KBC	Mt. Juliet, TN
Mercury by Method 7471B	WG1550155	1	09/27/20 14:48	09/28/20 13:31	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 03:35	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 17:19	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1551375	1	09/17/20 15:28	09/30/20 09:28	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552502	1.26	09/17/20 15:28	10/01/20 16:49	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1551543	50	09/30/20 13:58	10/01/20 12:02	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1551698	1	09/30/20 19:33	10/01/20 17:10	JNJ	Mt. Juliet, TN

SR-BH10SO 3-3.5 L1265434-08 Solid

Collected by: Aaron Wisher | Collected date/time: 09/17/20 15:05 | Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1550922	1	09/29/20 14:21	09/29/20 14:29	KBC	Mt. Juliet, TN
Mercury by Method 7471B	WG1550168	1	09/28/20 09:58	09/28/20 19:22	TCT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 03:39	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 16:46	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1551593	25.3	09/17/20 15:05	10/01/20 00:22	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552502	1	09/17/20 15:05	10/01/20 17:11	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1551543	50	09/30/20 13:58	10/01/20 12:28	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1551698	1	09/30/20 19:33	10/01/20 16:49	JNJ	Mt. Juliet, TN

SR-BH09SO 2-3 L1265434-09 Solid

Collected by: Aaron Wisher | Collected date/time: 09/17/20 15:20 | Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1550922	1	09/29/20 14:21	09/29/20 14:29	KBC	Mt. Juliet, TN
Mercury by Method 7471B	WG1550168	1	09/28/20 09:58	09/28/20 19:25	TCT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 03:42	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 16:49	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1551593	25	09/17/20 15:20	10/01/20 00:45	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552515	1	10/01/20 14:13	10/01/20 15:09	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552753	1	09/17/20 15:20	10/01/20 20:48	JHH	Mt. Juliet, TN

SR-BH09SO 2-3 L1265434-09 Solid

Collected by: Aaron Wisher | Collected date/time: 09/17/20 15:20 | Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1551543	50	09/30/20 13:58	10/01/20 12:41	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1551698	1	09/30/20 19:33	10/01/20 17:31	JNJ	Mt. Juliet, TN

SR-BH10SO 6.5-7 L1265434-10 Solid

Collected by: Aaron Wisher | Collected date/time: 09/17/20 15:10 | Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1550922	1	09/29/20 14:21	09/29/20 14:29	KBC	Mt. Juliet, TN
Mercury by Method 7471B	WG1550168	1	09/28/20 09:58	09/28/20 19:28	TCT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 03:45	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 16:52	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1551593	25	09/17/20 15:10	10/01/20 01:08	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552515	1.1	09/17/20 15:10	10/01/20 15:31	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552753	1.01	09/17/20 15:10	10/01/20 21:10	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1551543	50	09/30/20 13:58	10/01/20 12:15	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1551698	10	09/30/20 19:33	10/01/20 17:52	JNJ	Mt. Juliet, TN

SR-BH07SO 0.5-1.0 L1265434-11 Solid

Collected by: Aaron Wisher | Collected date/time: 09/17/20 15:00 | Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1550922	1	09/29/20 14:21	09/29/20 14:29	KBC	Mt. Juliet, TN
Mercury by Method 7471B	WG1550168	1	09/28/20 09:58	09/28/20 19:30	TCT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 03:49	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 16:56	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1551593	27.5	09/17/20 15:00	10/01/20 01:31	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552753	1	09/17/20 15:00	10/01/20 21:31	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1551543	200	09/30/20 13:58	10/01/20 12:55	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1551698	10	09/30/20 19:33	10/01/20 18:13	JNJ	Mt. Juliet, TN

SR-EB01 L1265434-13 GW

Collected by: Aaron Wisher | Collected date/time: 09/17/20 17:25 | Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG1548375	1	09/24/20 17:46	09/25/20 13:17	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1549469	1	09/28/20 11:03	09/29/20 16:05	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1551428	1	09/30/20 01:51	09/30/20 01:51	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1551118	1	09/30/20 21:13	09/30/20 21:13	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1548353	1	09/24/20 13:22	09/25/20 23:31	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1551421	1	09/29/20 22:55	09/30/20 22:01	CLG	Mt. Juliet, TN

SR-BH08SO 0.5-1.0 L1265434-14 Solid

Collected by: Aaron Wisher | Collected date/time: 09/17/20 15:45 | Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1550922	1	09/29/20 14:21	09/29/20 14:29	KBC	Mt. Juliet, TN
Mercury by Method 7471B	WG1550165	1	09/28/20 10:10	09/28/20 21:04	TCT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 03:52	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 16:59	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1551598	25	09/17/20 15:45	09/30/20 14:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552515	1	09/17/20 15:45	10/01/20 16:38	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552753	1	09/17/20 15:45	10/01/20 22:15	JHH	Mt. Juliet, TN

SR-BH08SO 0.5-1.0 L1265434-14 Solid

Collected by: Aaron Wisher
Collected date/time: 09/17/20 15:45
Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1551543	20	09/30/20 13:58	10/01/20 16:25	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1551698	1	09/30/20 19:33	10/01/20 16:28	JNJ	Mt. Juliet, TN

SR-BH04SO 0.5-1.0 L1265434-15 Solid

Collected by: Aaron Wisher
Collected date/time: 09/17/20 14:50
Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1550922	1	09/29/20 14:21	09/29/20 14:29	KBC	Mt. Juliet, TN
Mercury by Method 7471B	WG1550165	1	09/28/20 10:10	09/28/20 21:06	TCT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 03:55	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1550321	5	09/28/20 06:49	09/29/20 17:02	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1551598	25	09/17/20 14:50	09/30/20 14:47	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552515	1	09/17/20 14:50	10/01/20 17:00	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552753	1	09/17/20 14:50	10/01/20 22:36	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1551543	4	09/30/20 13:58	10/01/20 01:03	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1551698	1	09/30/20 19:33	10/01/20 15:05	JNJ	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.

[Preliminary Report]

Jared Starkey
Project Manager

Report Revision History

Level II Report - Version 1: 10/08/20 20:47
Level II Report - Version 2: 10/08/20 21:10

Sample Delivery Group (SDG) Narrative

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Batch	Method	Lab Sample ID
WG1551421	8270E-SIM	L1265434-13

Metals (ICPMS) by Method 6020B

The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

Batch	Lab Sample ID	Analytes
WG1550321	L1265434-05	Barium

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

The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

Batch	Lab Sample ID	Analytes
WG1552502	L1265434-05	1,2,4-Trimethylbenzene, 2-Butanone (MEK), Acetone, Benzene, Ethanol, p-Isopropyltoluene, Toluene and Xylenes, Total

The same analyte is found in the associated blank.

Batch	Analyte	Lab Sample ID
WG1552502	Xylenes, Total	L1265434-01, 04, 05, 06, 07, 08
WG1552753	Xylenes, Total	L1265434-11

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG1551118	(LCS) R3576598-1, L1265434-02, 13	1,2-Dichloroethane, Bromochloromethane, Tetrachloroethene and Trichloroethene

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

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG1552502	(LCSD) R3576907-2, L1265434-01, 04, 06, 07, 08	ethanol and Ethanol
WG1552753	(LCSD) R3576908-2, L1265434-11	ethanol and Ethanol

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG1552502	(MS) R3576907-7, (MS) R3576907-5, (MSD) R3576907-6, (MSD) R3576907-8, L1265434-05	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Chloromethane and Naphthalene

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG1552502	(MS) R3576907-7, (MS) R3576907-5, (MSD) R3576907-8, L1265434-05	2-Butanone (MEK), Acetone, Acrylonitrile, ethanol, Ethanol and tert-Butyl alcohol

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG1552502	(MSD) R3576907-6, (MSD) R3576907-8, L1265434-05	64 analytes

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Surrogate recovery cannot be used for control limit evaluation due to dilution.

Batch	Analyte	Lab Sample ID
WG1551543	o-Terphenyl	L1265434-07, 08, 09, 10, 11, 14

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

Surrogate recovery limits have been exceeded; values are outside upper control limits.

Batch	Analyte	Lab Sample ID
WG1551421	2-Fluorobiphenyl	(LCS) R3576589-2
WG1551421	Nitrobenzene-d5	(LCS) R3576589-2
WG1551421	p-Terphenyl-d14	(LCS) R3576589-2, (LCSD) R3576589-1

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG1551421	(LCS) R3576589-2, (LCSD) R3576589-1, L1265434-13	19 analytes

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG1551421	(LCSD) R3576589-1, L1265434-13	17 analytes

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG1551517	(MS) R3577163-3, (MSD) R3577163-4	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene and Pyrene

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.8		1	09/29/2020 14:37	WG1550921

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0184	0.0409	1	09/28/2020 13:20	WG1550155

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	6.38		0.431	1.02	5	09/29/2020 03:15	WG1550321
Barium	44.0		1.28	2.56	5	09/29/2020 03:15	WG1550321
Cadmium	U		0.415	1.02	5	09/29/2020 03:15	WG1550321
Chromium	8.88		2.29	5.11	5	09/29/2020 16:19	WG1550321
Lead	17.8		1.02	2.04	5	09/29/2020 03:15	WG1550321
Selenium	U		1.03	2.56	5	09/29/2020 03:15	WG1550321
Silver	U		0.218	0.511	5	09/29/2020 03:15	WG1550321

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	0.604		0.0347	0.102	1	09/30/2020 08:06	WG1551375
(S) a,a,a-Trifluorotoluene(FID)	*94.2*			*77.0-120*		*09/30/2020 08:06*	WG1551375

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.430		0.0212	0.0511	1	10/01/2020 15:01	WG1552502
Acrylonitrile	U		0.00206	0.0102	1	10/01/2020 15:01	WG1552502
Benzene	0.000565	J	0.000383	0.00102	1	10/01/2020 15:01	WG1552502
Bromobenzene	U		0.000281	0.00102	1	10/01/2020 15:01	WG1552502
Bromodichloromethane	U		0.000741	0.00102	1	10/01/2020 15:01	WG1552502
Bromoform	U		0.000433	0.00102	1	10/01/2020 15:01	WG1552502
Bromomethane	U		0.00120	0.00511	1	10/01/2020 15:01	WG1552502
n-Butylbenzene	U		0.000264	0.00102	1	10/01/2020 15:01	WG1552502
sec-Butylbenzene	U		0.000205	0.00102	1	10/01/2020 15:01	WG1552502
tert-Butylbenzene	U		0.000211	0.00102	1	10/01/2020 15:01	WG1552502
Carbon tetrachloride	U		0.000254	0.00102	1	10/01/2020 15:01	WG1552502
Chlorobenzene	U		0.000196	0.00102	1	10/01/2020 15:01	WG1552502
Chlorodibromomethane	U		0.000229	0.00102	1	10/01/2020 15:01	WG1552502
Chloroethane	U		0.00102	0.00511	1	10/01/2020 15:01	WG1552502
Chloroform	U		0.00105	0.00511	1	10/01/2020 15:01	WG1552502
Chloromethane	U		0.000664	0.00256	1	10/01/2020 15:01	WG1552502
2-Chlorotoluene	U		0.000230	0.00102	1	10/01/2020 15:01	WG1552502
4-Chlorotoluene	U		0.000706	0.00102	1	10/01/2020 15:01	WG1552502
1,2-Dibromo-3-Chloropropane	U		0.00194	0.00511	1	10/01/2020 15:01	WG1552502
1,2-Dibromoethane	U		0.000256	0.00102	1	10/01/2020 15:01	WG1552502
Dibromomethane	U		0.000358	0.00102	1	10/01/2020 15:01	WG1552502
1,2-Dichlorobenzene	U		0.000434	0.00102	1	10/01/2020 15:01	WG1552502
1,3-Dichlorobenzene	U		0.000613	0.00102	1	10/01/2020 15:01	WG1552502
1,4-Dichlorobenzene	U		0.000848	0.00102	1	10/01/2020 15:01	WG1552502
Dichlorodifluoromethane	U		0.000293	0.00511	1	10/01/2020 15:01	WG1552502
1,1-Dichloroethane	U		0.000274	0.00102	1	10/01/2020 15:01	WG1552502
1,2-Dichloroethane	U		0.000460	0.00102	1	10/01/2020 15:01	WG1552502

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000363	0.00102	1	10/01/2020 15:01	WG1552502
cis-1,2-Dichloroethene	U		0.000486	0.00102	1	10/01/2020 15:01	WG1552502
trans-1,2-Dichloroethene	U		0.000511	0.00102	1	10/01/2020 15:01	WG1552502
1,2-Dichloropropane	U		0.000168	0.00102	1	10/01/2020 15:01	WG1552502
1,1-Dichloropropene	U		0.000383	0.00102	1	10/01/2020 15:01	WG1552502
1,3-Dichloropropane	U		0.000230	0.00102	1	10/01/2020 15:01	WG1552502
cis-1,3-Dichloropropene	U		0.000434	0.00102	1	10/01/2020 15:01	WG1552502
trans-1,3-Dichloropropene	U		0.000690	0.00102	1	10/01/2020 15:01	WG1552502
2,2-Dichloropropane	U		0.000383	0.00102	1	10/01/2020 15:01	WG1552502
Di-isopropyl ether	U		0.000226	0.00102	1	10/01/2020 15:01	WG1552502
Ethylbenzene	U		0.000307	0.00102	1	10/01/2020 15:01	WG1552502
Hexachloro-1,3-butadiene	U		0.000350	0.00102	1	10/01/2020 15:01	WG1552502
Isopropylbenzene	U		0.000434	0.00102	1	10/01/2020 15:01	WG1552502
p-Isopropyltoluene	0.0190		0.000209	0.00102	1	10/01/2020 15:01	WG1552502
2-Butanone (MEK)	0.00637	J	0.00478	0.0102	1	10/01/2020 15:01	WG1552502
Methylene Chloride	U		0.00102	0.00511	1	10/01/2020 15:01	WG1552502
4-Methyl-2-pentanone (MIBK)	U		0.000971	0.0102	1	10/01/2020 15:01	WG1552502
Methyl tert-butyl ether	U		0.000358	0.00102	1	10/01/2020 15:01	WG1552502
Naphthalene	U		0.00509	0.00511	1	10/01/2020 15:01	WG1552502
n-Propylbenzene	U		0.000211	0.00102	1	10/01/2020 15:01	WG1552502
Styrene	U		0.000228	0.00102	1	10/01/2020 15:01	WG1552502
1,1,1,2-Tetrachloroethane	U		0.000303	0.00102	1	10/01/2020 15:01	WG1552502
1,1,2,2-Tetrachloroethane	U		0.000236	0.00102	1	10/01/2020 15:01	WG1552502
1,1,2-Trichlorotrifluoroethane	U		0.000435	0.00102	1	10/01/2020 15:01	WG1552502
Tetrachloroethene	U		0.000332	0.00102	1	10/01/2020 15:01	WG1552502
Toluene	0.0244		0.00126	0.00511	1	10/01/2020 15:01	WG1552502
1,2,3-Trichlorobenzene	U		0.000313	0.00102	1	10/01/2020 15:01	WG1552502
1,2,4-Trichlorobenzene	U		0.000397	0.00102	1	10/01/2020 15:01	WG1552502
1,1,1-Trichloroethane	U		0.000378	0.00102	1	10/01/2020 15:01	WG1552502
1,1,2-Trichloroethane	U		0.000434	0.00102	1	10/01/2020 15:01	WG1552502
Trichloroethene	U		0.000204	0.00102	1	10/01/2020 15:01	WG1552502
Trichlorofluoromethane	U		0.000364	0.00511	1	10/01/2020 15:01	WG1552502
1,2,3-Trichloropropane	U		0.000249	0.00256	1	10/01/2020 15:01	WG1552502
1,2,4-Trimethylbenzene	0.000408	J	0.000216	0.00102	1	10/01/2020 15:01	WG1552502
1,2,3-Trimethylbenzene	U		0.000293	0.00102	1	10/01/2020 15:01	WG1552502
Vinyl chloride	U		0.000231	0.00102	1	10/01/2020 15:01	WG1552502
1,3,5-Trimethylbenzene	U		0.000272	0.00102	1	10/01/2020 15:01	WG1552502
Xylenes, Total	0.000860	B J	0.000511	0.00307	1	10/01/2020 15:01	WG1552502
Ethanol	0.0886	J J3	0.0501	0.102	1	10/01/2020 15:01	WG1552502
Ethyl tert-butyl ether	U		0.000256	0.00102	1	10/01/2020 15:01	WG1552502
tert-Amyl Methyl Ether	U		0.000409	0.00102	1	10/01/2020 15:01	WG1552502
tert-Butyl alcohol	U		0.00256	0.00511	1	10/01/2020 15:01	WG1552502
(S) Toluene-d8	*106*			*75.0-131*		*10/01/2020 15:01*	WG1552502
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*10/01/2020 15:01*	WG1552502
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*10/01/2020 15:01*	WG1552502

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	5.51		1.36	4.09	1	09/30/2020 21:46	WG1551501
Residual Range Organics (RRO)	23.1		3.40	10.2	1	09/30/2020 21:46	WG1551501
(S) o-Terphenyl	*99.8*			*18.0-148*		*09/30/2020 21:46*	WG1551501

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00235	0.00613	1	10/01/2020 18:07	WG1551517
Acenaphthene	U		0.00214	0.00613	1	10/01/2020 18:07	WG1551517
Acenaphthylene	U		0.00221	0.00613	1	10/01/2020 18:07	WG1551517
Benzo(a)anthracene	0.00244	J	0.00177	0.00613	1	10/01/2020 18:07	WG1551517
Benzo(a)pyrene	0.00297	J	0.00183	0.00613	1	10/01/2020 18:07	WG1551517
Benzo(b)fluoranthene	0.00472	J	0.00156	0.00613	1	10/01/2020 18:07	WG1551517
Benzo(g,h,i)perylene	0.00457	J	0.00181	0.00613	1	10/01/2020 18:07	WG1551517
Benzo(k)fluoranthene	U		0.00220	0.00613	1	10/01/2020 18:07	WG1551517
Chrysene	0.00278	J	0.00237	0.00613	1	10/01/2020 18:07	WG1551517
Dibenz(a,h)anthracene	U		0.00176	0.00613	1	10/01/2020 18:07	WG1551517
Fluoranthene	0.00394	J	0.00232	0.00613	1	10/01/2020 18:07	WG1551517
Fluorene	U		0.00210	0.00613	1	10/01/2020 18:07	WG1551517
Indeno(1,2,3-cd)pyrene	0.00306	J	0.00185	0.00613	1	10/01/2020 18:07	WG1551517
Naphthalene	U		0.00417	0.0204	1	10/01/2020 18:07	WG1551517
Phenanthrene	0.00263	J	0.00236	0.00613	1	10/01/2020 18:07	WG1551517
Pyrene	0.00606	J	0.00204	0.00613	1	10/01/2020 18:07	WG1551517
1-Methylnaphthalene	U		0.00459	0.0204	1	10/01/2020 18:07	WG1551517
2-Methylnaphthalene	U		0.00437	0.0204	1	10/01/2020 18:07	WG1551517
2-Chloronaphthalene	U		0.00476	0.0204	1	10/01/2020 18:07	WG1551517
(S) Nitrobenzene-d5	*72.4*			*14.0-149*		*10/01/2020 18:07*	WG1551517
(S) 2-Fluorobiphenyl	*84.8*			*34.0-125*		*10/01/2020 18:07*	WG1551517
(S) p-Terphenyl-d14	*101*			*23.0-120*		*10/01/2020 18:07*	WG1551517

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	25.0	1	09/30/2020 20:52	WG1551118
Acrylonitrile	U		0.671	5.00	1	09/30/2020 20:52	WG1551118
Benzene	U		0.0941	0.500	1	09/30/2020 20:52	WG1551118
Bromobenzene	U		0.118	0.500	1	09/30/2020 20:52	WG1551118
Bromodichloromethane	U		0.136	0.500	1	09/30/2020 20:52	WG1551118
Bromochloromethane	U	J4	0.128	0.500	1	09/30/2020 20:52	WG1551118
Bromoform	U		0.129	0.500	1	09/30/2020 20:52	WG1551118
Bromomethane	U		0.605	2.50	1	09/30/2020 20:52	WG1551118
n-Butylbenzene	U		0.157	0.500	1	09/30/2020 20:52	WG1551118
sec-Butylbenzene	U		0.125	0.500	1	09/30/2020 20:52	WG1551118
tert-Butylbenzene	U		0.127	0.500	1	09/30/2020 20:52	WG1551118
Carbon disulfide	U		0.0962	0.500	1	09/30/2020 20:52	WG1551118
Carbon tetrachloride	U		0.128	0.500	1	09/30/2020 20:52	WG1551118
Chlorobenzene	U		0.117	0.500	1	09/30/2020 20:52	WG1551118
Chlorodibromomethane	U		0.140	0.500	1	09/30/2020 20:52	WG1551118
Chloroethane	U		0.192	2.50	1	09/30/2020 20:52	WG1551118
Chloroform	U		0.111	0.500	1	09/30/2020 20:52	WG1551118
Chloromethane	U		0.960	1.25	1	09/30/2020 20:52	WG1551118
2-Chlorotoluene	U		0.106	0.500	1	09/30/2020 20:52	WG1551118
4-Chlorotoluene	U		0.114	0.500	1	09/30/2020 20:52	WG1551118
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	09/30/2020 20:52	WG1551118
1,2-Dibromoethane	U		0.126	0.500	1	09/30/2020 20:52	WG1551118
Dibromomethane	U		0.122	0.500	1	09/30/2020 20:52	WG1551118
1,2-Dichlorobenzene	U		0.107	0.500	1	09/30/2020 20:52	WG1551118
1,3-Dichlorobenzene	U		0.299	0.500	1	09/30/2020 20:52	WG1551118
1,4-Dichlorobenzene	U		0.120	0.500	1	09/30/2020 20:52	WG1551118
Dichlorodifluoromethane	U		0.374	2.50	1	09/30/2020 20:52	WG1551118
1,1-Dichloroethane	U		0.100	0.500	1	09/30/2020 20:52	WG1551118
1,2-Dichloroethane	U	J4	0.0819	0.500	1	09/30/2020 20:52	WG1551118
1,1-Dichloroethene	U		0.188	0.500	1	09/30/2020 20:52	WG1551118
cis-1,2-Dichloroethene	U		0.126	0.500	1	09/30/2020 20:52	WG1551118
trans-1,2-Dichloroethene	U		0.149	0.500	1	09/30/2020 20:52	WG1551118
1,2-Dichloropropane	U		0.149	0.500	1	09/30/2020 20:52	WG1551118
1,1-Dichloropropene	U		0.142	0.500	1	09/30/2020 20:52	WG1551118
1,3-Dichloropropane	U		0.109	1.00	1	09/30/2020 20:52	WG1551118
cis-1,3-Dichloropropene	U		0.111	0.500	1	09/30/2020 20:52	WG1551118
trans-1,3-Dichloropropene	U		0.118	0.500	1	09/30/2020 20:52	WG1551118
trans-1,4-Dichloro-2-butene	U	J0	0.467	5.00	1	09/30/2020 20:52	WG1551118
2,2-Dichloropropane	U		0.161	0.500	1	09/30/2020 20:52	WG1551118
Di-isopropyl ether	U		0.105	0.500	1	09/30/2020 20:52	WG1551118
Ethylbenzene	U		0.137	0.500	1	09/30/2020 20:52	WG1551118
Hexachloro-1,3-butadiene	U		0.337	1.00	1	09/30/2020 20:52	WG1551118
2-Hexanone	U		0.787	5.00	1	09/30/2020 20:52	WG1551118
n-Hexane	U		0.749	5.00	1	09/30/2020 20:52	WG1551118
Iodomethane	U		0.554	5.00	1	09/30/2020 20:52	WG1551118
Isopropylbenzene	U		0.105	0.500	1	09/30/2020 20:52	WG1551118
p-Isopropyltoluene	U		0.120	0.500	1	09/30/2020 20:52	WG1551118
2-Butanone (MEK)	U		1.19	5.00	1	09/30/2020 20:52	WG1551118
Methylene Chloride	U		0.430	2.50	1	09/30/2020 20:52	WG1551118
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	09/30/2020 20:52	WG1551118
Methyl tert-butyl ether	U		0.101	0.500	1	09/30/2020 20:52	WG1551118
Naphthalene	U		0.174	2.50	1	09/30/2020 20:52	WG1551118
n-Propylbenzene	U		0.0993	0.500	1	09/30/2020 20:52	WG1551118
Styrene	U		0.118	0.500	1	09/30/2020 20:52	WG1551118
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	09/30/2020 20:52	WG1551118
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	09/30/2020 20:52	WG1551118

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	09/30/2020 20:52	WG1551118
Tetrachloroethene	U	J4	0.300	0.500	1	09/30/2020 20:52	WG1551118
Toluene	U		0.278	0.500	1	09/30/2020 20:52	WG1551118
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/30/2020 20:52	WG1551118
1,2,4-Trichlorobenzene	U		0.481	1.00	1	09/30/2020 20:52	WG1551118
1,1,1-Trichloroethane	U		0.149	0.500	1	09/30/2020 20:52	WG1551118
1,1,2-Trichloroethane	U		0.158	0.500	1	09/30/2020 20:52	WG1551118
Trichloroethene	U	J4	0.190	0.500	1	09/30/2020 20:52	WG1551118
Trichlorofluoromethane	U		0.160	2.50	1	09/30/2020 20:52	WG1551118
1,2,3-Trichloropropane	U		0.237	2.50	1	09/30/2020 20:52	WG1551118
1,2,4-Trimethylbenzene	U		0.322	0.500	1	09/30/2020 20:52	WG1551118
1,2,3-Trimethylbenzene	U		0.104	0.500	1	09/30/2020 20:52	WG1551118
1,3,5-Trimethylbenzene	U		0.104	0.500	1	09/30/2020 20:52	WG1551118
Vinyl acetate	U		0.692	5.00	1	09/30/2020 20:52	WG1551118
Vinyl chloride	U		0.234	0.500	1	09/30/2020 20:52	WG1551118
Xylenes, Total	U		0.174	1.50	1	09/30/2020 20:52	WG1551118
tert-Butyl alcohol	U		4.06	5.00	1	09/30/2020 20:52	WG1551118
tert-Amyl Methyl Ether	U		0.195	1.00	1	09/30/2020 20:52	WG1551118
Ethyl tert-butyl ether	U		0.101	1.00	1	09/30/2020 20:52	WG1551118
Ethanol	U		42.0	100	1	09/30/2020 20:52	WG1551118
(S) Toluene-d8	*94.9*			*80.0-120*		*09/30/2020 20:52*	WG1551118
(S) 4-Bromofluorobenzene	*97.9*			*77.0-126*		*09/30/2020 20:52*	WG1551118
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/30/2020 20:52*	WG1551118

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.8		1	09/29/2020 14:37	WG1550921

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0275	J	0.0205	0.0456	1	09/28/2020 13:23	WG1550155

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	11.4		0.481	1.14	5	09/29/2020 03:19	WG1550321
Barium	132		1.42	2.85	5	09/29/2020 03:19	WG1550321
Cadmium	U		0.463	1.14	5	09/29/2020 03:19	WG1550321
Chromium	10.8		2.55	5.70	5	09/29/2020 16:22	WG1550321
Lead	18.1		1.14	2.28	5	09/29/2020 03:19	WG1550321
Selenium	U		1.15	2.85	5	09/29/2020 03:19	WG1550321
Silver	U		0.243	0.570	5	09/29/2020 03:19	WG1550321

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	0.0506	J	0.0386	0.114	1	09/30/2020 08:27	WG1551375
(S) a,a,a-Trifluorotoluene(FID)	*95.6*			*77.0-120*		*09/30/2020 08:27*	WG1551375

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.691	1.67	25	10/02/2020 16:38	WG1552972
Acrylonitrile	U		0.0673	0.333	25	10/02/2020 16:38	WG1552972
Benzene	U		0.0125	0.0333	25	10/02/2020 16:38	WG1552972
Bromobenzene	U		0.00918	0.0333	25	10/02/2020 16:38	WG1552972
Bromodichloromethane	U		0.0241	0.0333	25	10/02/2020 16:38	WG1552972
Bromoform	U		0.0141	0.0333	25	10/02/2020 16:38	WG1552972
Bromomethane	U		0.0391	0.167	25	10/02/2020 16:38	WG1552972
n-Butylbenzene	0.00882	J	0.00860	0.0333	25	10/02/2020 16:38	WG1552972
sec-Butylbenzene	U		0.00671	0.0333	25	10/02/2020 16:38	WG1552972
tert-Butylbenzene	U		0.00687	0.0333	25	10/02/2020 16:38	WG1552972
Carbon tetrachloride	U		0.00827	0.0333	25	10/02/2020 16:38	WG1552972
Chlorobenzene	U		0.00640	0.0333	25	10/02/2020 16:38	WG1552972
Chlorodibromomethane	U		0.00747	0.0333	25	10/02/2020 16:38	WG1552972
Chloroethane	U		0.0333	0.167	25	10/02/2020 16:38	WG1552972
Chloroform	U		0.0344	0.167	25	10/02/2020 16:38	WG1552972
Chloromethane	U		0.0217	0.0833	25	10/02/2020 16:38	WG1552972
2-Chlorotoluene	U		0.00751	0.0333	25	10/02/2020 16:38	WG1552972
4-Chlorotoluene	U		0.0231	0.0333	25	10/02/2020 16:38	WG1552972
1,2-Dibromo-3-Chloropropane	U		0.0633	0.167	25	10/02/2020 16:38	WG1552972
1,2-Dibromoethane	U		0.00833	0.0333	25	10/02/2020 16:38	WG1552972
Dibromomethane	U		0.0117	0.0333	25	10/02/2020 16:38	WG1552972
1,2-Dichlorobenzene	U		0.0141	0.0333	25	10/02/2020 16:38	WG1552972
1,3-Dichlorobenzene	U		0.0200	0.0333	25	10/02/2020 16:38	WG1552972
1,4-Dichlorobenzene	U		0.0277	0.0333	25	10/02/2020 16:38	WG1552972
Dichlorodifluoromethane	U		0.00956	0.167	25	10/02/2020 16:38	WG1552972
1,1-Dichloroethane	U		0.00894	0.0333	25	10/02/2020 16:38	WG1552972
1,2-Dichloroethane	U		0.0151	0.0333	25	10/02/2020 16:38	WG1552972

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.0118	0.0333	25	10/02/2020 16:38	WG1552972
cis-1,2-Dichloroethene	U		0.0159	0.0333	25	10/02/2020 16:38	WG1552972
trans-1,2-Dichloroethene	U		0.0167	0.0333	25	10/02/2020 16:38	WG1552972
1,2-Dichloropropane	U		0.00547	0.0333	25	10/02/2020 16:38	WG1552972
1,1-Dichloropropene	U		0.0125	0.0333	25	10/02/2020 16:38	WG1552972
1,3-Dichloropropane	U		0.00751	0.0333	25	10/02/2020 16:38	WG1552972
cis-1,3-Dichloropropene	U		0.0141	0.0333	25	10/02/2020 16:38	WG1552972
trans-1,3-Dichloropropene	U		0.0225	0.0333	25	10/02/2020 16:38	WG1552972
2,2-Dichloropropane	U		0.0125	0.0333	25	10/02/2020 16:38	WG1552972
Di-isopropyl ether	U		0.00737	0.0333	25	10/02/2020 16:38	WG1552972
Ethylbenzene	U		0.0100	0.0333	25	10/02/2020 16:38	WG1552972
Hexachloro-1,3-butadiene	U		0.0114	0.0333	25	10/02/2020 16:38	WG1552972
Isopropylbenzene	U		0.0141	0.0333	25	10/02/2020 16:38	WG1552972
p-Isopropyltoluene	0.00859	J	0.00680	0.0333	25	10/02/2020 16:38	WG1552972
2-Butanone (MEK)	U		0.156	0.333	25	10/02/2020 16:38	WG1552972
Methylene Chloride	U		0.0333	0.167	25	10/02/2020 16:38	WG1552972
4-Methyl-2-pentanone (MIBK)	U		0.0317	0.333	25	10/02/2020 16:38	WG1552972
Methyl tert-butyl ether	U		0.0117	0.0333	25	10/02/2020 16:38	WG1552972
Naphthalene	U		0.167	0.167	25	10/02/2020 16:38	WG1552972
n-Propylbenzene	U		0.00687	0.0333	25	10/02/2020 16:38	WG1552972
Styrene	U		0.00744	0.0333	25	10/02/2020 16:38	WG1552972
1,1,1,2-Tetrachloroethane	U		0.00987	0.0333	25	10/02/2020 16:38	WG1552972
1,1,2,2-Tetrachloroethane	U		0.00769	0.0333	25	10/02/2020 16:38	WG1552972
1,1,2-Trichlorotrifluoroethane	U		0.0143	0.0333	25	10/02/2020 16:38	WG1552972
Tetrachloroethene	U		0.0108	0.0333	25	10/02/2020 16:38	WG1552972
Toluene	U		0.0411	0.167	25	10/02/2020 16:38	WG1552972
1,2,3-Trichlorobenzene	U		0.0102	0.0333	25	10/02/2020 16:38	WG1552972
1,2,4-Trichlorobenzene	U		0.0129	0.0333	25	10/02/2020 16:38	WG1552972
1,1,1-Trichloroethane	U		0.0123	0.0333	25	10/02/2020 16:38	WG1552972
1,1,2-Trichloroethane	U		0.0141	0.0333	25	10/02/2020 16:38	WG1552972
Trichloroethene	U		0.00667	0.0333	25	10/02/2020 16:38	WG1552972
Trichlorofluoromethane	U		0.0119	0.167	25	10/02/2020 16:38	WG1552972
1,2,3-Trichloropropane	U		0.00813	0.0833	25	10/02/2020 16:38	WG1552972
1,2,4-Trimethylbenzene	0.0264	J	0.00704	0.0333	25	10/02/2020 16:38	WG1552972
1,2,3-Trimethylbenzene	0.0324	J	0.00956	0.0333	25	10/02/2020 16:38	WG1552972
Vinyl chloride	U		0.00753	0.0333	25	10/02/2020 16:38	WG1552972
1,3,5-Trimethylbenzene	U		0.00887	0.0333	25	10/02/2020 16:38	WG1552972
Xylenes, Total	0.0603	J	0.0167	0.100	25	10/02/2020 16:38	WG1552972
Ethanol	U		1.64	3.33	25	10/02/2020 16:38	WG1552972
Ethyl tert-butyl ether	U		0.00833	0.0333	25	10/02/2020 16:38	WG1552972
tert-Amyl Methyl Ether	U		0.0133	0.0333	25	10/02/2020 16:38	WG1552972
tert-Butyl alcohol	U		0.0833	0.167	25	10/02/2020 16:38	WG1552972
(S) Toluene-d8	*108*			*75.0-131*		*10/02/2020 16:38*	WG1552972
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/02/2020 16:38*	WG1552972
(S) 1,2-Dichloroethane-d4	*91.8*			*70.0-130*		*10/02/2020 16:38*	WG1552972

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	6.37		1.52	4.56	1	09/30/2020 23:05	WG1551543
Residual Range Organics (RRO)	10.1	J	3.79	11.4	1	09/30/2020 23:05	WG1551543
(S) o-Terphenyl	*67.4*			*18.0-148*		*09/30/2020 23:05*	WG1551543

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00262	0.00684	1	10/01/2020 17:44	WG1551517
Acenaphthene	U		0.00238	0.00684	1	10/01/2020 17:44	WG1551517
Acenaphthylene	U		0.00246	0.00684	1	10/01/2020 17:44	WG1551517
Benzo(a)anthracene	0.0196		0.00197	0.00684	1	10/01/2020 17:44	WG1551517
Benzo(a)pyrene	0.0218		0.00204	0.00684	1	10/01/2020 17:44	WG1551517
Benzo(b)fluoranthene	0.0215		0.00174	0.00684	1	10/01/2020 17:44	WG1551517
Benzo(g,h,i)perylene	0.0152		0.00202	0.00684	1	10/01/2020 17:44	WG1551517
Benzo(k)fluoranthene	0.00640	J	0.00245	0.00684	1	10/01/2020 17:44	WG1551517
Chrysene	0.0204		0.00264	0.00684	1	10/01/2020 17:44	WG1551517
Dibenz(a,h)anthracene	0.00376	J	0.00196	0.00684	1	10/01/2020 17:44	WG1551517
Fluoranthene	0.0167		0.00259	0.00684	1	10/01/2020 17:44	WG1551517
Fluorene	U		0.00234	0.00684	1	10/01/2020 17:44	WG1551517
Indeno(1,2,3-cd)pyrene	0.0124		0.00206	0.00684	1	10/01/2020 17:44	WG1551517
Naphthalene	U		0.00465	0.0228	1	10/01/2020 17:44	WG1551517
Phenanthrene	0.00455	J	0.00263	0.00684	1	10/01/2020 17:44	WG1551517
Pyrene	0.0379		0.00228	0.00684	1	10/01/2020 17:44	WG1551517
1-Methylnaphthalene	U		0.00512	0.0228	1	10/01/2020 17:44	WG1551517
2-Methylnaphthalene	U		0.00486	0.0228	1	10/01/2020 17:44	WG1551517
2-Chloronaphthalene	U		0.00531	0.0228	1	10/01/2020 17:44	WG1551517
(S) Nitrobenzene-d5	*63.6*			*14.0-149*		*10/01/2020 17:44*	WG1551517
(S) 2-Fluorobiphenyl	*73.0*			*34.0-125*		*10/01/2020 17:44*	WG1551517
(S) p-Terphenyl-d14	*98.7*			*23.0-120*		*10/01/2020 17:44*	WG1551517

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	09/29/2020 14:37	WG1550921

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0898		0.0185	0.0411	1	09/28/2020 13:25	WG1550155

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	9.78		0.434	1.03	5	09/29/2020 03:22	WG1550321
Barium	177		1.28	2.57	5	09/29/2020 03:22	WG1550321
Cadmium	0.927	J	0.417	1.03	5	09/29/2020 03:22	WG1550321
Chromium	20.0		2.30	5.14	5	09/29/2020 16:25	WG1550321
Lead	229		1.03	2.06	5	09/29/2020 03:22	WG1550321
Selenium	U		1.04	2.57	5	09/29/2020 03:22	WG1550321
Silver	0.294	J	0.219	0.514	5	09/29/2020 03:22	WG1550321

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	2.05		0.0348	0.103	1	09/30/2020 08:47	WG1551375
(S) a,a,a-Trifluorotoluene(FID)	*92.2*			*77.0-120*		*09/30/2020 08:47*	WG1551375

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.207		0.0213	0.0514	1	10/01/2020 15:45	WG1552502
Acrylonitrile	U		0.00208	0.0103	1	10/01/2020 15:45	WG1552502
Benzene	0.00215		0.000385	0.00103	1	10/01/2020 15:45	WG1552502
Bromobenzene	U		0.000283	0.00103	1	10/01/2020 15:45	WG1552502
Bromodichloromethane	U		0.000745	0.00103	1	10/01/2020 15:45	WG1552502
Bromoform	U		0.000436	0.00103	1	10/01/2020 15:45	WG1552502
Bromomethane	U		0.00120	0.00514	1	10/01/2020 15:45	WG1552502
n-Butylbenzene	U		0.000265	0.00103	1	10/01/2020 15:45	WG1552502
sec-Butylbenzene	U		0.000207	0.00103	1	10/01/2020 15:45	WG1552502
tert-Butylbenzene	U		0.000212	0.00103	1	10/01/2020 15:45	WG1552502
Carbon tetrachloride	U		0.000255	0.00103	1	10/01/2020 15:45	WG1552502
Chlorobenzene	U		0.000197	0.00103	1	10/01/2020 15:45	WG1552502
Chlorodibromomethane	U		0.000230	0.00103	1	10/01/2020 15:45	WG1552502
Chloroethane	U		0.00103	0.00514	1	10/01/2020 15:45	WG1552502
Chloroform	U		0.00106	0.00514	1	10/01/2020 15:45	WG1552502
Chloromethane	U		0.000668	0.00257	1	10/01/2020 15:45	WG1552502
2-Chlorotoluene	U		0.000231	0.00103	1	10/01/2020 15:45	WG1552502
4-Chlorotoluene	U		0.000710	0.00103	1	10/01/2020 15:45	WG1552502
1,2-Dibromo-3-Chloropropane	U		0.00195	0.00514	1	10/01/2020 15:45	WG1552502
1,2-Dibromoethane	U		0.000257	0.00103	1	10/01/2020 15:45	WG1552502
Dibromomethane	U		0.000360	0.00103	1	10/01/2020 15:45	WG1552502
1,2-Dichlorobenzene	U		0.000437	0.00103	1	10/01/2020 15:45	WG1552502
1,3-Dichlorobenzene	U		0.000617	0.00103	1	10/01/2020 15:45	WG1552502
1,4-Dichlorobenzene	U		0.000853	0.00103	1	10/01/2020 15:45	WG1552502
Dichlorodifluoromethane	U		0.000295	0.00514	1	10/01/2020 15:45	WG1552502
1,1-Dichloroethane	U		0.000275	0.00103	1	10/01/2020 15:45	WG1552502
1,2-Dichloroethane	U		0.000463	0.00103	1	10/01/2020 15:45	WG1552502

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000365	0.00103	1	10/01/2020 15:45	WG1552502
cis-1,2-Dichloroethene	U		0.000488	0.00103	1	10/01/2020 15:45	WG1552502
trans-1,2-Dichloroethene	U		0.000514	0.00103	1	10/01/2020 15:45	WG1552502
1,2-Dichloropropane	U		0.000169	0.00103	1	10/01/2020 15:45	WG1552502
1,1-Dichloropropene	U		0.000385	0.00103	1	10/01/2020 15:45	WG1552502
1,3-Dichloropropane	U		0.000231	0.00103	1	10/01/2020 15:45	WG1552502
cis-1,3-Dichloropropene	U		0.000437	0.00103	1	10/01/2020 15:45	WG1552502
trans-1,3-Dichloropropene	U		0.000694	0.00103	1	10/01/2020 15:45	WG1552502
2,2-Dichloropropane	U		0.000385	0.00103	1	10/01/2020 15:45	WG1552502
Di-isopropyl ether	U		0.000227	0.00103	1	10/01/2020 15:45	WG1552502
Ethylbenzene	U		0.000308	0.00103	1	10/01/2020 15:45	WG1552502
Hexachloro-1,3-butadiene	U		0.000352	0.00103	1	10/01/2020 15:45	WG1552502
Isopropylbenzene	U		0.000437	0.00103	1	10/01/2020 15:45	WG1552502
p-Isopropyltoluene	0.000593	J	0.000210	0.00103	1	10/01/2020 15:45	WG1552502
2-Butanone (MEK)	0.0114		0.00481	0.0103	1	10/01/2020 15:45	WG1552502
Methylene Chloride	U		0.00103	0.00514	1	10/01/2020 15:45	WG1552502
4-Methyl-2-pentanone (MIBK)	U		0.000977	0.0103	1	10/01/2020 15:45	WG1552502
Methyl tert-butyl ether	U		0.000360	0.00103	1	10/01/2020 15:45	WG1552502
Naphthalene	U		0.00512	0.00514	1	10/01/2020 15:45	WG1552502
n-Propylbenzene	U		0.000212	0.00103	1	10/01/2020 15:45	WG1552502
Styrene	U		0.000229	0.00103	1	10/01/2020 15:45	WG1552502
1,1,1,2-Tetrachloroethane	U		0.000304	0.00103	1	10/01/2020 15:45	WG1552502
1,1,2,2-Tetrachloroethane	U		0.000237	0.00103	1	10/01/2020 15:45	WG1552502
1,1,2-Trichlorotrifluoroethane	U		0.000438	0.00103	1	10/01/2020 15:45	WG1552502
Tetrachloroethene	U		0.000334	0.00103	1	10/01/2020 15:45	WG1552502
Toluene	0.00162	J	0.00126	0.00514	1	10/01/2020 15:45	WG1552502
1,2,3-Trichlorobenzene	U		0.000315	0.00103	1	10/01/2020 15:45	WG1552502
1,2,4-Trichlorobenzene	U		0.000399	0.00103	1	10/01/2020 15:45	WG1552502
1,1,1-Trichloroethane	U		0.000380	0.00103	1	10/01/2020 15:45	WG1552502
1,1,2-Trichloroethane	U		0.000437	0.00103	1	10/01/2020 15:45	WG1552502
Trichloroethene	U		0.000206	0.00103	1	10/01/2020 15:45	WG1552502
Trichlorofluoromethane	U		0.000366	0.00514	1	10/01/2020 15:45	WG1552502
1,2,3-Trichloropropane	U		0.000251	0.00257	1	10/01/2020 15:45	WG1552502
1,2,4-Trimethylbenzene	U		0.000217	0.00103	1	10/01/2020 15:45	WG1552502
1,2,3-Trimethylbenzene	U		0.000295	0.00103	1	10/01/2020 15:45	WG1552502
Vinyl chloride	U		0.000232	0.00103	1	10/01/2020 15:45	WG1552502
1,3,5-Trimethylbenzene	U		0.000273	0.00103	1	10/01/2020 15:45	WG1552502
Xylenes, Total	0.000651	B J	0.000514	0.00308	1	10/01/2020 15:45	WG1552502
Ethanol	U	J3	0.0504	0.103	1	10/01/2020 15:45	WG1552502
Ethyl tert-butyl ether	U		0.000257	0.00103	1	10/01/2020 15:45	WG1552502
tert-Amyl Methyl Ether	U		0.000411	0.00103	1	10/01/2020 15:45	WG1552502
tert-Butyl alcohol	0.00268	J J0	0.00257	0.00514	1	10/01/2020 15:45	WG1552502
(S) Toluene-d8	*106*			*75.0-131*		*10/01/2020 15:45*	WG1552502
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*10/01/2020 15:45*	WG1552502
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*10/01/2020 15:45*	WG1552502

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	11.3	J	5.47	16.4	4	10/01/2020 00:24	WG1551543
Residual Range Organics (RRO)	93.5		13.7	41.1	4	10/01/2020 00:24	WG1551543
(S) o-Terphenyl	*114*			*18.0-148*		*10/01/2020 00:24*	WG1551543

Sample Narrative:

L1265434-04 WG1551543: Cannot run at lower dilution due to viscosity of extract

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00506	J	0.00236	0.00617	1	10/01/2020 15:26	WG1551698
Acenaphthene	U		0.00215	0.00617	1	10/01/2020 15:26	WG1551698
Acenaphthylene	U		0.00222	0.00617	1	10/01/2020 15:26	WG1551698
Benzo(a)anthracene	0.0243		0.00178	0.00617	1	10/01/2020 15:26	WG1551698
Benzo(a)pyrene	0.0292		0.00184	0.00617	1	10/01/2020 15:26	WG1551698
Benzo(b)fluoranthene	0.0458		0.00157	0.00617	1	10/01/2020 15:26	WG1551698
Benzo(g,h,i)perylene	0.0291		0.00182	0.00617	1	10/01/2020 15:26	WG1551698
Benzo(k)fluoranthene	0.0140		0.00221	0.00617	1	10/01/2020 15:26	WG1551698
Chrysene	0.0274		0.00238	0.00617	1	10/01/2020 15:26	WG1551698
Dibenz(a,h)anthracene	0.00582	J	0.00177	0.00617	1	10/01/2020 15:26	WG1551698
Fluoranthene	0.0474		0.00233	0.00617	1	10/01/2020 15:26	WG1551698
Fluorene	U		0.00211	0.00617	1	10/01/2020 15:26	WG1551698
Indeno(1,2,3-cd)pyrene	0.0207		0.00186	0.00617	1	10/01/2020 15:26	WG1551698
Naphthalene	0.00626	J	0.00419	0.0206	1	10/01/2020 15:26	WG1551698
Phenanthrene	0.0235		0.00237	0.00617	1	10/01/2020 15:26	WG1551698
Pyrene	0.0525		0.00206	0.00617	1	10/01/2020 15:26	WG1551698
1-Methylnaphthalene	U		0.00462	0.0206	1	10/01/2020 15:26	WG1551698
2-Methylnaphthalene	0.00594	J	0.00439	0.0206	1	10/01/2020 15:26	WG1551698
2-Chloronaphthalene	U		0.00479	0.0206	1	10/01/2020 15:26	WG1551698
(S) Nitrobenzene-d5	*61.4*			*14.0-149*		*10/01/2020 15:26*	WG1551698
(S) 2-Fluorobiphenyl	*77.3*			*34.0-125*		*10/01/2020 15:26*	WG1551698
(S) p-Terphenyl-d14	*85.1*			*23.0-120*		*10/01/2020 15:26*	WG1551698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.8		1	09/29/2020 14:37	WG1550921

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0184	0.0409	1	09/28/2020 12:49	WG1550155

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	8.51		0.432	1.02	5	09/29/2020 02:59	WG1550321
Barium	66.6	O1	1.28	2.56	5	09/29/2020 02:59	WG1550321
Cadmium	U		0.415	1.02	5	09/29/2020 02:59	WG1550321
Chromium	11.9		2.29	5.11	5	09/29/2020 16:02	WG1550321
Lead	24.1		1.02	2.05	5	09/29/2020 02:59	WG1550321
Selenium	U		1.03	2.56	5	09/29/2020 02:59	WG1550321
Silver	U		0.218	0.511	5	09/29/2020 02:59	WG1550321

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	7.18		0.888	2.62	25	09/30/2020 23:59	WG1551593
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*77.0-120*		*09/30/2020 23:59*	WG1551593

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.299	J5 V3	0.0212	0.0511	1	10/01/2020 16:06	WG1552502
Acrylonitrile	U	J5	0.00207	0.0102	1	10/01/2020 16:06	WG1552502
Benzene	0.000708	J J3 V3	0.000383	0.00102	1	10/01/2020 16:06	WG1552502
Bromobenzene	U	J3	0.000281	0.00102	1	10/01/2020 16:06	WG1552502
Bromodichloromethane	U	J3	0.000741	0.00102	1	10/01/2020 16:06	WG1552502
Bromoform	U		0.000434	0.00102	1	10/01/2020 16:06	WG1552502
Bromomethane	U	J3	0.00120	0.00511	1	10/01/2020 16:06	WG1552502
n-Butylbenzene	U	J3	0.000264	0.00102	1	10/01/2020 16:06	WG1552502
sec-Butylbenzene	U	J3	0.000206	0.00102	1	10/01/2020 16:06	WG1552502
tert-Butylbenzene	U	J3	0.000211	0.00102	1	10/01/2020 16:06	WG1552502
Carbon tetrachloride	U	J3	0.000254	0.00102	1	10/01/2020 16:06	WG1552502
Chlorobenzene	U	J3	0.000196	0.00102	1	10/01/2020 16:06	WG1552502
Chlorodibromomethane	U	J3	0.000229	0.00102	1	10/01/2020 16:06	WG1552502
Chloroethane	U	J3	0.00102	0.00511	1	10/01/2020 16:06	WG1552502
Chloroform	U	J3	0.00105	0.00511	1	10/01/2020 16:06	WG1552502
Chloromethane	U	J6	0.000665	0.00256	1	10/01/2020 16:06	WG1552502
2-Chlorotoluene	U	J3	0.000230	0.00102	1	10/01/2020 16:06	WG1552502
4-Chlorotoluene	U	J3	0.000707	0.00102	1	10/01/2020 16:06	WG1552502
1,2-Dibromo-3-Chloropropane	U		0.00194	0.00511	1	10/01/2020 16:06	WG1552502
1,2-Dibromoethane	U		0.000256	0.00102	1	10/01/2020 16:06	WG1552502
Dibromomethane	U	J3	0.000358	0.00102	1	10/01/2020 16:06	WG1552502
1,2-Dichlorobenzene	U	J3	0.000435	0.00102	1	10/01/2020 16:06	WG1552502
1,3-Dichlorobenzene	U	J3	0.000614	0.00102	1	10/01/2020 16:06	WG1552502
1,4-Dichlorobenzene	U	J3	0.000849	0.00102	1	10/01/2020 16:06	WG1552502
Dichlorodifluoromethane	U	J3	0.000293	0.00511	1	10/01/2020 16:06	WG1552502
1,1-Dichloroethane	U	J3	0.000274	0.00102	1	10/01/2020 16:06	WG1552502
1,2-Dichloroethane	U	J3	0.000460	0.00102	1	10/01/2020 16:06	WG1552502

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U	J3	0.000363	0.00102	1	10/01/2020 16:06	WG1552502
cis-1,2-Dichloroethene	U	J3	0.000486	0.00102	1	10/01/2020 16:06	WG1552502
trans-1,2-Dichloroethene	U	J3	0.000511	0.00102	1	10/01/2020 16:06	WG1552502
1,2-Dichloropropane	U	J3	0.000168	0.00102	1	10/01/2020 16:06	WG1552502
1,1-Dichloropropene	U	J3	0.000383	0.00102	1	10/01/2020 16:06	WG1552502
1,3-Dichloropropane	U		0.000230	0.00102	1	10/01/2020 16:06	WG1552502
cis-1,3-Dichloropropene	U	J3	0.000435	0.00102	1	10/01/2020 16:06	WG1552502
trans-1,3-Dichloropropene	U	J3	0.000690	0.00102	1	10/01/2020 16:06	WG1552502
2,2-Dichloropropane	U	J3	0.000383	0.00102	1	10/01/2020 16:06	WG1552502
Di-isopropyl ether	U	J3	0.000226	0.00102	1	10/01/2020 16:06	WG1552502
Ethylbenzene	U	J3	0.000307	0.00102	1	10/01/2020 16:06	WG1552502
Hexachloro-1,3-butadiene	U	J3	0.000350	0.00102	1	10/01/2020 16:06	WG1552502
Isopropylbenzene	U	J3	0.000435	0.00102	1	10/01/2020 16:06	WG1552502
p-Isopropyltoluene	0.00600	J3 V3	0.000209	0.00102	1	10/01/2020 16:06	WG1552502
2-Butanone (MEK)	0.00759	J J5 V3	0.00479	0.0102	1	10/01/2020 16:06	WG1552502
Methylene Chloride	U	J3	0.00102	0.00511	1	10/01/2020 16:06	WG1552502
4-Methyl-2-pentanone (MIBK)	U		0.000971	0.0102	1	10/01/2020 16:06	WG1552502
Methyl tert-butyl ether	U	J3	0.000358	0.00102	1	10/01/2020 16:06	WG1552502
Naphthalene	U		0.00509	0.00511	1	10/01/2020 16:06	WG1552502
n-Propylbenzene	U	J3	0.000211	0.00102	1	10/01/2020 16:06	WG1552502
Styrene	U	J3	0.000228	0.00102	1	10/01/2020 16:06	WG1552502
1,1,1,2-Tetrachloroethane	U	J3	0.000303	0.00102	1	10/01/2020 16:06	WG1552502
1,1,2,2-Tetrachloroethane	U		0.000236	0.00102	1	10/01/2020 16:06	WG1552502
1,1,2-Trichlorotrifluoroethane	U	J3	0.000436	0.00102	1	10/01/2020 16:06	WG1552502
Tetrachloroethene	U	J3	0.000332	0.00102	1	10/01/2020 16:06	WG1552502
Toluene	0.0121	J3 V3	0.00126	0.00511	1	10/01/2020 16:06	WG1552502
1,2,3-Trichlorobenzene	U	J3	0.000313	0.00102	1	10/01/2020 16:06	WG1552502
1,2,4-Trichlorobenzene	U	J3	0.000397	0.00102	1	10/01/2020 16:06	WG1552502
1,1,1-Trichloroethane	U	J3	0.000378	0.00102	1	10/01/2020 16:06	WG1552502
1,1,2-Trichloroethane	U	J3	0.000435	0.00102	1	10/01/2020 16:06	WG1552502
Trichloroethene	U	J3	0.000205	0.00102	1	10/01/2020 16:06	WG1552502
Trichlorofluoromethane	U	J3	0.000364	0.00511	1	10/01/2020 16:06	WG1552502
1,2,3-Trichloropropane	U		0.000249	0.00256	1	10/01/2020 16:06	WG1552502
1,2,4-Trimethylbenzene	0.000297	J J3 V3	0.000216	0.00102	1	10/01/2020 16:06	WG1552502
1,2,3-Trimethylbenzene	U	J3	0.000293	0.00102	1	10/01/2020 16:06	WG1552502
Vinyl chloride	U	J3	0.000231	0.00102	1	10/01/2020 16:06	WG1552502
1,3,5-Trimethylbenzene	U	J3	0.000272	0.00102	1	10/01/2020 16:06	WG1552502
Xylenes, Total	0.00117	B J J3 V3	0.000511	0.00307	1	10/01/2020 16:06	WG1552502
Ethanol	0.0991	J J5 V3	0.0501	0.102	1	10/01/2020 16:06	WG1552502
Ethyl tert-butyl ether	U		0.000256	0.00102	1	10/01/2020 16:06	WG1552502
tert-Amyl Methyl Ether	U		0.000409	0.00102	1	10/01/2020 16:06	WG1552502
tert-Butyl alcohol	U	J3 J5	0.00256	0.00511	1	10/01/2020 16:06	WG1552502
(S) Toluene-d8	*99.4*			*75.0-131*		*10/01/2020 16:06*	WG1552502
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/01/2020 16:06*	WG1552502
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*10/01/2020 16:06*	WG1552502

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	2.62	J	1.36	4.09	1	09/30/2020 23:18	WG1551543
Residual Range Organics (RRO)	10.2	J	3.41	10.2	1	09/30/2020 23:18	WG1551543
(S) o-Terphenyl	*75.2*			*18.0-148*		*09/30/2020 23:18*	WG1551543

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00235	0.00614	1	10/01/2020 13:42	WG1551698
Acenaphthene	U		0.00214	0.00614	1	10/01/2020 13:42	WG1551698
Acenaphthylene	U		0.00221	0.00614	1	10/01/2020 13:42	WG1551698
Benzo(a)anthracene	0.00380	J	0.00177	0.00614	1	10/01/2020 13:42	WG1551698
Benzo(a)pyrene	0.00460	J	0.00183	0.00614	1	10/01/2020 13:42	WG1551698
Benzo(b)fluoranthene	0.00733		0.00156	0.00614	1	10/01/2020 13:42	WG1551698
Benzo(g,h,i)perylene	0.00527	J	0.00181	0.00614	1	10/01/2020 13:42	WG1551698
Benzo(k)fluoranthene	U		0.00220	0.00614	1	10/01/2020 13:42	WG1551698
Chrysene	0.00366	J	0.00237	0.00614	1	10/01/2020 13:42	WG1551698
Dibenz(a,h)anthracene	U		0.00176	0.00614	1	10/01/2020 13:42	WG1551698
Fluoranthene	0.00729		0.00232	0.00614	1	10/01/2020 13:42	WG1551698
Fluorene	U		0.00210	0.00614	1	10/01/2020 13:42	WG1551698
Indeno(1,2,3-cd)pyrene	0.00384	J	0.00185	0.00614	1	10/01/2020 13:42	WG1551698
Naphthalene	U		0.00417	0.0205	1	10/01/2020 13:42	WG1551698
Phenanthrene	0.00330	J	0.00236	0.00614	1	10/01/2020 13:42	WG1551698
Pyrene	0.00688		0.00205	0.00614	1	10/01/2020 13:42	WG1551698
1-Methylnaphthalene	U		0.00459	0.0205	1	10/01/2020 13:42	WG1551698
2-Methylnaphthalene	U		0.00437	0.0205	1	10/01/2020 13:42	WG1551698
2-Chloronaphthalene	U		0.00476	0.0205	1	10/01/2020 13:42	WG1551698
(S) Nitrobenzene-d5	*70.7*			*14.0-149*		*10/01/2020 13:42*	WG1551698
(S) 2-Fluorobiphenyl	*83.0*			*34.0-125*		*10/01/2020 13:42*	WG1551698
(S) p-Terphenyl-d14	*90.6*			*23.0-120*		*10/01/2020 13:42*	WG1551698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	09/29/2020 14:29	WG1550922

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.219		0.0185	0.0411	1	09/28/2020 13:28	WG1550155

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.82		0.434	1.03	5	09/29/2020 03:32	WG1550321
Barium	127		1.29	2.57	5	09/29/2020 03:32	WG1550321
Cadmium	0.485	J	0.417	1.03	5	09/29/2020 03:32	WG1550321
Chromium	238		2.30	5.14	5	09/29/2020 16:39	WG1550321
Lead	161		1.03	2.06	5	09/29/2020 03:32	WG1550321
Selenium	U		1.04	2.57	5	09/29/2020 03:32	WG1550321
Silver	U		0.219	0.514	5	09/29/2020 03:32	WG1550321

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	0.0620	J	0.0352	0.104	1.01	09/30/2020 09:08	WG1551375
(S) a,a,a-Trifluorotoluene(FID)	*93.8*			*77.0-120*		*09/30/2020 09:08*	WG1551375

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0791		0.0260	0.0627	1.22	10/01/2020 16:28	WG1552502
Acrylonitrile	U		0.00253	0.0125	1.22	10/01/2020 16:28	WG1552502
Benzene	0.000555	J	0.000471	0.00125	1.22	10/01/2020 16:28	WG1552502
Bromobenzene	U		0.000345	0.00125	1.22	10/01/2020 16:28	WG1552502
Bromodichloromethane	U		0.000909	0.00125	1.22	10/01/2020 16:28	WG1552502
Bromoform	U		0.000532	0.00125	1.22	10/01/2020 16:28	WG1552502
Bromomethane	U		0.00147	0.00627	1.22	10/01/2020 16:28	WG1552502
n-Butylbenzene	U		0.000324	0.00125	1.22	10/01/2020 16:28	WG1552502
sec-Butylbenzene	U		0.000252	0.00125	1.22	10/01/2020 16:28	WG1552502
tert-Butylbenzene	U		0.000258	0.00125	1.22	10/01/2020 16:28	WG1552502
Carbon tetrachloride	U		0.000312	0.00125	1.22	10/01/2020 16:28	WG1552502
Chlorobenzene	U		0.000241	0.00125	1.22	10/01/2020 16:28	WG1552502
Chlorodibromomethane	U		0.000281	0.00125	1.22	10/01/2020 16:28	WG1552502
Chloroethane	U		0.00125	0.00627	1.22	10/01/2020 16:28	WG1552502
Chloroform	U		0.00130	0.00627	1.22	10/01/2020 16:28	WG1552502
Chloromethane	U		0.000815	0.00314	1.22	10/01/2020 16:28	WG1552502
2-Chlorotoluene	U		0.000283	0.00125	1.22	10/01/2020 16:28	WG1552502
4-Chlorotoluene	U		0.000867	0.00125	1.22	10/01/2020 16:28	WG1552502
1,2-Dibromo-3-Chloropropane	U		0.00239	0.00627	1.22	10/01/2020 16:28	WG1552502
1,2-Dibromoethane	U		0.000314	0.00125	1.22	10/01/2020 16:28	WG1552502
Dibromomethane	U		0.000439	0.00125	1.22	10/01/2020 16:28	WG1552502
1,2-Dichlorobenzene	U		0.000534	0.00125	1.22	10/01/2020 16:28	WG1552502
1,3-Dichlorobenzene	U		0.000753	0.00125	1.22	10/01/2020 16:28	WG1552502
1,4-Dichlorobenzene	U		0.00104	0.00125	1.22	10/01/2020 16:28	WG1552502
Dichlorodifluoromethane	U		0.000360	0.00627	1.22	10/01/2020 16:28	WG1552502
1,1-Dichloroethane	U		0.000336	0.00125	1.22	10/01/2020 16:28	WG1552502
1,2-Dichloroethane	U		0.000564	0.00125	1.22	10/01/2020 16:28	WG1552502

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000445	0.00125	1.22	10/01/2020 16:28	WG1552502
cis-1,2-Dichloroethene	U		0.000596	0.00125	1.22	10/01/2020 16:28	WG1552502
trans-1,2-Dichloroethene	U		0.000627	0.00125	1.22	10/01/2020 16:28	WG1552502
1,2-Dichloropropane	U		0.000206	0.00125	1.22	10/01/2020 16:28	WG1552502
1,1-Dichloropropene	U		0.000471	0.00125	1.22	10/01/2020 16:28	WG1552502
1,3-Dichloropropane	U		0.000283	0.00125	1.22	10/01/2020 16:28	WG1552502
cis-1,3-Dichloropropene	U		0.000534	0.00125	1.22	10/01/2020 16:28	WG1552502
trans-1,3-Dichloropropene	U		0.000847	0.00125	1.22	10/01/2020 16:28	WG1552502
2,2-Dichloropropane	U		0.000471	0.00125	1.22	10/01/2020 16:28	WG1552502
Di-isopropyl ether	U		0.000278	0.00125	1.22	10/01/2020 16:28	WG1552502
Ethylbenzene	U		0.000376	0.00125	1.22	10/01/2020 16:28	WG1552502
Hexachloro-1,3-butadiene	U		0.000429	0.00125	1.22	10/01/2020 16:28	WG1552502
Isopropylbenzene	U		0.000534	0.00125	1.22	10/01/2020 16:28	WG1552502
p-Isopropyltoluene	U		0.000256	0.00125	1.22	10/01/2020 16:28	WG1552502
2-Butanone (MEK)	0.00632	J	0.00587	0.0125	1.22	10/01/2020 16:28	WG1552502
Methylene Chloride	U		0.00125	0.00627	1.22	10/01/2020 16:28	WG1552502
4-Methyl-2-pentanone (MIBK)	U		0.00119	0.0125	1.22	10/01/2020 16:28	WG1552502
Methyl tert-butyl ether	U		0.000439	0.00125	1.22	10/01/2020 16:28	WG1552502
Naphthalene	U		0.00625	0.00627	1.22	10/01/2020 16:28	WG1552502
n-Propylbenzene	U		0.000258	0.00125	1.22	10/01/2020 16:28	WG1552502
Styrene	U		0.000280	0.00125	1.22	10/01/2020 16:28	WG1552502
1,1,1,2-Tetrachloroethane	U		0.000371	0.00125	1.22	10/01/2020 16:28	WG1552502
1,1,2,2-Tetrachloroethane	U		0.000290	0.00125	1.22	10/01/2020 16:28	WG1552502
1,1,2-Trichlorotrifluoroethane	U		0.000535	0.00125	1.22	10/01/2020 16:28	WG1552502
Tetrachloroethene	U		0.000408	0.00125	1.22	10/01/2020 16:28	WG1552502
Toluene	U		0.00154	0.00627	1.22	10/01/2020 16:28	WG1552502
1,2,3-Trichlorobenzene	U		0.000383	0.00125	1.22	10/01/2020 16:28	WG1552502
1,2,4-Trichlorobenzene	U		0.000486	0.00125	1.22	10/01/2020 16:28	WG1552502
1,1,1-Trichloroethane	U		0.000464	0.00125	1.22	10/01/2020 16:28	WG1552502
1,1,2-Trichloroethane	U		0.000534	0.00125	1.22	10/01/2020 16:28	WG1552502
Trichloroethene	U		0.000251	0.00125	1.22	10/01/2020 16:28	WG1552502
Trichlorofluoromethane	U		0.000446	0.00627	1.22	10/01/2020 16:28	WG1552502
1,2,3-Trichloropropane	U		0.000306	0.00314	1.22	10/01/2020 16:28	WG1552502
1,2,4-Trimethylbenzene	U		0.000264	0.00125	1.22	10/01/2020 16:28	WG1552502
1,2,3-Trimethylbenzene	U		0.000360	0.00125	1.22	10/01/2020 16:28	WG1552502
Vinyl chloride	U		0.000284	0.00125	1.22	10/01/2020 16:28	WG1552502
1,3,5-Trimethylbenzene	U		0.000334	0.00125	1.22	10/01/2020 16:28	WG1552502
Xylenes, Total	0.000700	B J	0.000627	0.00376	1.22	10/01/2020 16:28	WG1552502
Ethanol	U	J3	0.0615	0.125	1.22	10/01/2020 16:28	WG1552502
Ethyl tert-butyl ether	U		0.000314	0.00125	1.22	10/01/2020 16:28	WG1552502
tert-Amyl Methyl Ether	U		0.000502	0.00125	1.22	10/01/2020 16:28	WG1552502
tert-Butyl alcohol	0.00588	J J0	0.00314	0.00627	1.22	10/01/2020 16:28	WG1552502
(S) Toluene-d8	*106*			*75.0-131*		*10/01/2020 16:28*	WG1552502
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/01/2020 16:28*	WG1552502
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*10/01/2020 16:28*	WG1552502

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	7.43		1.37	4.11	1	09/30/2020 23:57	WG1551543
Residual Range Organics (RRO)	24.9		3.42	10.3	1	09/30/2020 23:57	WG1551543
(S) o-Terphenyl	*95.9*			*18.0-148*		*09/30/2020 23:57*	WG1551543

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00562	J	0.00236	0.00617	1	10/01/2020 14:44	WG1551698
Acenaphthene	U		0.00215	0.00617	1	10/01/2020 14:44	WG1551698
Acenaphthylene	U		0.00222	0.00617	1	10/01/2020 14:44	WG1551698
Benzo(a)anthracene	0.0488		0.00178	0.00617	1	10/01/2020 14:44	WG1551698
Benzo(a)pyrene	0.0635		0.00184	0.00617	1	10/01/2020 14:44	WG1551698
Benzo(b)fluoranthene	0.0988		0.00157	0.00617	1	10/01/2020 14:44	WG1551698
Benzo(g,h,i)perylene	0.0572		0.00182	0.00617	1	10/01/2020 14:44	WG1551698
Benzo(k)fluoranthene	0.0244		0.00221	0.00617	1	10/01/2020 14:44	WG1551698
Chrysene	0.0541		0.00239	0.00617	1	10/01/2020 14:44	WG1551698
Dibenz(a,h)anthracene	0.0116		0.00177	0.00617	1	10/01/2020 14:44	WG1551698
Fluoranthene	0.0948		0.00233	0.00617	1	10/01/2020 14:44	WG1551698
Fluorene	U		0.00211	0.00617	1	10/01/2020 14:44	WG1551698
Indeno(1,2,3-cd)pyrene	0.0431		0.00186	0.00617	1	10/01/2020 14:44	WG1551698
Naphthalene	0.00838	J	0.00419	0.0206	1	10/01/2020 14:44	WG1551698
Phenanthrene	0.0278		0.00237	0.00617	1	10/01/2020 14:44	WG1551698
Pyrene	0.110		0.00206	0.00617	1	10/01/2020 14:44	WG1551698
1-Methylnaphthalene	0.00667	J	0.00462	0.0206	1	10/01/2020 14:44	WG1551698
2-Methylnaphthalene	0.00868	J	0.00439	0.0206	1	10/01/2020 14:44	WG1551698
2-Chloronaphthalene	U		0.00479	0.0206	1	10/01/2020 14:44	WG1551698
(S) Nitrobenzene-d5	*62.0*			*14.0-149*		*10/01/2020 14:44*	WG1551698
(S) 2-Fluorobiphenyl	*73.8*			*34.0-125*		*10/01/2020 14:44*	WG1551698
(S) p-Terphenyl-d14	*84.0*			*23.0-120*		*10/01/2020 14:44*	WG1551698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.4		1	09/29/2020 14:29	WG1550922

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	1.13		0.0206	0.0458	1	09/28/2020 13:31	WG1550155

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	24.9		0.483	1.14	5	09/29/2020 03:35	WG1550321
Barium	572		1.43	2.86	5	09/29/2020 03:35	WG1550321
Cadmium	14.8		0.465	1.14	5	09/29/2020 03:35	WG1550321
Chromium	89.2		2.56	5.72	5	09/29/2020 17:19	WG1550321
Lead	19100		1.14	2.29	5	09/29/2020 17:19	WG1550321
Selenium	U		1.16	2.86	5	09/29/2020 03:35	WG1550321
Silver	8.58		0.244	0.572	5	09/29/2020 03:35	WG1550321

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		0.0388	0.114	1	09/30/2020 09:28	WG1551375
(S) a,a,a-Trifluorotoluene(FID)	*93.2*			*77.0-120*		*09/30/2020 09:28*	WG1551375

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.325		0.0299	0.0721	1.26	10/01/2020 16:49	WG1552502
Acrylonitrile	U		0.00292	0.0144	1.26	10/01/2020 16:49	WG1552502
Benzene	U		0.000541	0.00144	1.26	10/01/2020 16:49	WG1552502
Bromobenzene	U		0.000397	0.00144	1.26	10/01/2020 16:49	WG1552502
Bromodichloromethane	U		0.00105	0.00144	1.26	10/01/2020 16:49	WG1552502
Bromoform	U		0.000611	0.00144	1.26	10/01/2020 16:49	WG1552502
Bromomethane	0.00193	J	0.00168	0.00721	1.26	10/01/2020 16:49	WG1552502
n-Butylbenzene	U		0.000372	0.00144	1.26	10/01/2020 16:49	WG1552502
sec-Butylbenzene	U		0.000290	0.00144	1.26	10/01/2020 16:49	WG1552502
tert-Butylbenzene	U		0.000298	0.00144	1.26	10/01/2020 16:49	WG1552502
Carbon tetrachloride	U		0.000357	0.00144	1.26	10/01/2020 16:49	WG1552502
Chlorobenzene	U		0.000277	0.00144	1.26	10/01/2020 16:49	WG1552502
Chlorodibromomethane	U		0.000323	0.00144	1.26	10/01/2020 16:49	WG1552502
Chloroethane	U		0.00144	0.00721	1.26	10/01/2020 16:49	WG1552502
Chloroform	U		0.00149	0.00721	1.26	10/01/2020 16:49	WG1552502
Chloromethane	U		0.000938	0.00361	1.26	10/01/2020 16:49	WG1552502
2-Chlorotoluene	U		0.000325	0.00144	1.26	10/01/2020 16:49	WG1552502
4-Chlorotoluene	U		0.000997	0.00144	1.26	10/01/2020 16:49	WG1552502
1,2-Dibromo-3-Chloropropane	U		0.00274	0.00721	1.26	10/01/2020 16:49	WG1552502
1,2-Dibromoethane	U		0.000361	0.00144	1.26	10/01/2020 16:49	WG1552502
Dibromomethane	U		0.000505	0.00144	1.26	10/01/2020 16:49	WG1552502
1,2-Dichlorobenzene	U		0.000612	0.00144	1.26	10/01/2020 16:49	WG1552502
1,3-Dichlorobenzene	U		0.000865	0.00144	1.26	10/01/2020 16:49	WG1552502
1,4-Dichlorobenzene	U		0.00120	0.00144	1.26	10/01/2020 16:49	WG1552502
Dichlorodifluoromethane	U		0.000414	0.00721	1.26	10/01/2020 16:49	WG1552502
1,1-Dichloroethane	U		0.000387	0.00144	1.26	10/01/2020 16:49	WG1552502
1,2-Dichloroethane	U		0.000649	0.00144	1.26	10/01/2020 16:49	WG1552502

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000512	0.00144	1.26	10/01/2020 16:49	WG1552502
cis-1,2-Dichloroethene	U		0.000686	0.00144	1.26	10/01/2020 16:49	WG1552502
trans-1,2-Dichloroethene	U		0.000721	0.00144	1.26	10/01/2020 16:49	WG1552502
1,2-Dichloropropane	U		0.000237	0.00144	1.26	10/01/2020 16:49	WG1552502
1,1-Dichloropropene	U		0.000541	0.00144	1.26	10/01/2020 16:49	WG1552502
1,3-Dichloropropane	U		0.000325	0.00144	1.26	10/01/2020 16:49	WG1552502
cis-1,3-Dichloropropene	U		0.000612	0.00144	1.26	10/01/2020 16:49	WG1552502
trans-1,3-Dichloropropene	U		0.000974	0.00144	1.26	10/01/2020 16:49	WG1552502
2,2-Dichloropropane	U		0.000541	0.00144	1.26	10/01/2020 16:49	WG1552502
Di-isopropyl ether	U		0.000318	0.00144	1.26	10/01/2020 16:49	WG1552502
Ethylbenzene	U		0.000433	0.00144	1.26	10/01/2020 16:49	WG1552502
Hexachloro-1,3-butadiene	U		0.000493	0.00144	1.26	10/01/2020 16:49	WG1552502
Isopropylbenzene	U		0.000612	0.00144	1.26	10/01/2020 16:49	WG1552502
p-Isopropyltoluene	U		0.000294	0.00144	1.26	10/01/2020 16:49	WG1552502
2-Butanone (MEK)	0.0129	J	0.00675	0.0144	1.26	10/01/2020 16:49	WG1552502
Methylene Chloride	U		0.00144	0.00721	1.26	10/01/2020 16:49	WG1552502
4-Methyl-2-pentanone (MIBK)	U		0.00137	0.0144	1.26	10/01/2020 16:49	WG1552502
Methyl tert-butyl ether	U		0.000505	0.00144	1.26	10/01/2020 16:49	WG1552502
Naphthalene	U		0.00718	0.00721	1.26	10/01/2020 16:49	WG1552502
n-Propylbenzene	U		0.000298	0.00144	1.26	10/01/2020 16:49	WG1552502
Styrene	U		0.000322	0.00144	1.26	10/01/2020 16:49	WG1552502
1,1,1,2-Tetrachloroethane	U		0.000427	0.00144	1.26	10/01/2020 16:49	WG1552502
1,1,2,2-Tetrachloroethane	U		0.000333	0.00144	1.26	10/01/2020 16:49	WG1552502
1,1,2-Trichlorotrifluoroethane	U		0.000615	0.00144	1.26	10/01/2020 16:49	WG1552502
Tetrachloroethene	U		0.000468	0.00144	1.26	10/01/2020 16:49	WG1552502
Toluene	U		0.00177	0.00721	1.26	10/01/2020 16:49	WG1552502
1,2,3-Trichlorobenzene	U		0.000442	0.00144	1.26	10/01/2020 16:49	WG1552502
1,2,4-Trichlorobenzene	U		0.000560	0.00144	1.26	10/01/2020 16:49	WG1552502
1,1,1-Trichloroethane	0.000626	J	0.000533	0.00144	1.26	10/01/2020 16:49	WG1552502
1,1,2-Trichloroethane	U		0.000612	0.00144	1.26	10/01/2020 16:49	WG1552502
Trichloroethene	U		0.000288	0.00144	1.26	10/01/2020 16:49	WG1552502
Trichlorofluoromethane	U		0.000514	0.00721	1.26	10/01/2020 16:49	WG1552502
1,2,3-Trichloropropane	U		0.000351	0.00361	1.26	10/01/2020 16:49	WG1552502
1,2,4-Trimethylbenzene	U		0.000304	0.00144	1.26	10/01/2020 16:49	WG1552502
1,2,3-Trimethylbenzene	U		0.000414	0.00144	1.26	10/01/2020 16:49	WG1552502
Vinyl chloride	U		0.000326	0.00144	1.26	10/01/2020 16:49	WG1552502
1,3,5-Trimethylbenzene	U		0.000383	0.00144	1.26	10/01/2020 16:49	WG1552502
Xylenes, Total	0.000781	B J	0.000721	0.00433	1.26	10/01/2020 16:49	WG1552502
Ethanol	U	J3	0.0706	0.144	1.26	10/01/2020 16:49	WG1552502
Ethyl tert-butyl ether	U		0.000361	0.00144	1.26	10/01/2020 16:49	WG1552502
tert-Amyl Methyl Ether	U		0.000577	0.00144	1.26	10/01/2020 16:49	WG1552502
tert-Butyl alcohol	U		0.00361	0.00721	1.26	10/01/2020 16:49	WG1552502
(S) Toluene-d8	*107*			*75.0-131*		*10/01/2020 16:49*	WG1552502
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/01/2020 16:49*	WG1552502
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*10/01/2020 16:49*	WG1552502

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	113	J	76.1	229	50	10/01/2020 12:02	WG1551543
Residual Range Organics (RRO)	754		190	572	50	10/01/2020 12:02	WG1551543
(S) o-Terphenyl	*109*	J7		*18.0-148*		*10/01/2020 12:02*	WG1551543

Sample Narrative:

L1265434-07 WG1551543: Cannot run at lower dilution due to viscosity of extract

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0523		0.00263	0.00687	1	10/01/2020 17:10	WG1551698
Acenaphthene	0.0171		0.00239	0.00687	1	10/01/2020 17:10	WG1551698
Acenaphthylene	U		0.00247	0.00687	1	10/01/2020 17:10	WG1551698
Benzo(a)anthracene	0.182		0.00198	0.00687	1	10/01/2020 17:10	WG1551698
Benzo(a)pyrene	0.251		0.00205	0.00687	1	10/01/2020 17:10	WG1551698
Benzo(b)fluoranthene	0.314		0.00175	0.00687	1	10/01/2020 17:10	WG1551698
Benzo(g,h,i)perylene	0.177		0.00203	0.00687	1	10/01/2020 17:10	WG1551698
Benzo(k)fluoranthene	0.0778		0.00246	0.00687	1	10/01/2020 17:10	WG1551698
Chrysene	0.228		0.00266	0.00687	1	10/01/2020 17:10	WG1551698
Dibenz(a,h)anthracene	0.0404		0.00197	0.00687	1	10/01/2020 17:10	WG1551698
Fluoranthene	0.303		0.00260	0.00687	1	10/01/2020 17:10	WG1551698
Fluorene	0.0121		0.00235	0.00687	1	10/01/2020 17:10	WG1551698
Indeno(1,2,3-cd)pyrene	0.152		0.00207	0.00687	1	10/01/2020 17:10	WG1551698
Naphthalene	0.0598		0.00467	0.0229	1	10/01/2020 17:10	WG1551698
Phenanthrene	0.165		0.00264	0.00687	1	10/01/2020 17:10	WG1551698
Pyrene	0.299		0.00229	0.00687	1	10/01/2020 17:10	WG1551698
1-Methylnaphthalene	0.0298		0.00514	0.0229	1	10/01/2020 17:10	WG1551698
2-Methylnaphthalene	0.0567		0.00489	0.0229	1	10/01/2020 17:10	WG1551698
2-Chloronaphthalene	U		0.00533	0.0229	1	10/01/2020 17:10	WG1551698
(S) Nitrobenzene-d5	*58.3*			*14.0-149*		*10/01/2020 17:10*	WG1551698
(S) 2-Fluorobiphenyl	*71.1*			*34.0-125*		*10/01/2020 17:10*	WG1551698
(S) p-Terphenyl-d14	*66.1*			*23.0-120*		*10/01/2020 17:10*	WG1551698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.0		1	09/29/2020 14:29	WG1550922

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0184	0.0408	1	09/28/2020 19:22	WG1550168

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	6.36		0.430	1.02	5	09/29/2020 03:39	WG1550321
Barium	75.8		1.27	2.55	5	09/29/2020 03:39	WG1550321
Cadmium	U		0.414	1.02	5	09/29/2020 03:39	WG1550321
Chromium	11.4		2.28	5.10	5	09/29/2020 16:46	WG1550321
Lead	31.9		1.02	2.04	5	09/29/2020 03:39	WG1550321
Selenium	U		1.03	2.55	5	09/29/2020 03:39	WG1550321
Silver	U		0.217	0.510	5	09/29/2020 03:39	WG1550321

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		0.892	2.63	25.3	10/01/2020 00:22	WG1551593
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*77.0-120*		*10/01/2020 00:22*	WG1551593

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0283	J	0.0211	0.0510	1	10/01/2020 17:11	WG1552502
Acrylonitrile	U		0.00206	0.0102	1	10/01/2020 17:11	WG1552502
Benzene	U		0.000382	0.00102	1	10/01/2020 17:11	WG1552502
Bromobenzene	U		0.000280	0.00102	1	10/01/2020 17:11	WG1552502
Bromodichloromethane	U		0.000739	0.00102	1	10/01/2020 17:11	WG1552502
Bromoform	U		0.000432	0.00102	1	10/01/2020 17:11	WG1552502
Bromomethane	U		0.00119	0.00510	1	10/01/2020 17:11	WG1552502
n-Butylbenzene	U		0.000263	0.00102	1	10/01/2020 17:11	WG1552502
sec-Butylbenzene	U		0.000205	0.00102	1	10/01/2020 17:11	WG1552502
tert-Butylbenzene	U		0.000210	0.00102	1	10/01/2020 17:11	WG1552502
Carbon tetrachloride	U		0.000253	0.00102	1	10/01/2020 17:11	WG1552502
Chlorobenzene	U		0.000196	0.00102	1	10/01/2020 17:11	WG1552502
Chlorodibromomethane	U		0.000228	0.00102	1	10/01/2020 17:11	WG1552502
Chloroethane	U		0.00102	0.00510	1	10/01/2020 17:11	WG1552502
Chloroform	U		0.00105	0.00510	1	10/01/2020 17:11	WG1552502
Chloromethane	U		0.000663	0.00255	1	10/01/2020 17:11	WG1552502
2-Chlorotoluene	U		0.000229	0.00102	1	10/01/2020 17:11	WG1552502
4-Chlorotoluene	U		0.000705	0.00102	1	10/01/2020 17:11	WG1552502
1,2-Dibromo-3-Chloropropane	U		0.00194	0.00510	1	10/01/2020 17:11	WG1552502
1,2-Dibromoethane	U		0.000255	0.00102	1	10/01/2020 17:11	WG1552502
Dibromomethane	U		0.000357	0.00102	1	10/01/2020 17:11	WG1552502
1,2-Dichlorobenzene	U		0.000433	0.00102	1	10/01/2020 17:11	WG1552502
1,3-Dichlorobenzene	U		0.000612	0.00102	1	10/01/2020 17:11	WG1552502
1,4-Dichlorobenzene	U		0.000847	0.00102	1	10/01/2020 17:11	WG1552502
Dichlorodifluoromethane	U		0.000293	0.00510	1	10/01/2020 17:11	WG1552502
1,1-Dichloroethane	U		0.000273	0.00102	1	10/01/2020 17:11	WG1552502
1,2-Dichloroethane	U		0.000459	0.00102	1	10/01/2020 17:11	WG1552502

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000362	0.00102	1	10/01/2020 17:11	WG1552502
cis-1,2-Dichloroethene	U		0.000484	0.00102	1	10/01/2020 17:11	WG1552502
trans-1,2-Dichloroethene	U		0.000510	0.00102	1	10/01/2020 17:11	WG1552502
1,2-Dichloropropane	U		0.000167	0.00102	1	10/01/2020 17:11	WG1552502
1,1-Dichloropropene	U		0.000382	0.00102	1	10/01/2020 17:11	WG1552502
1,3-Dichloropropane	U		0.000229	0.00102	1	10/01/2020 17:11	WG1552502
cis-1,3-Dichloropropene	U		0.000433	0.00102	1	10/01/2020 17:11	WG1552502
trans-1,3-Dichloropropene	U		0.000688	0.00102	1	10/01/2020 17:11	WG1552502
2,2-Dichloropropane	U		0.000382	0.00102	1	10/01/2020 17:11	WG1552502
Di-isopropyl ether	U		0.000225	0.00102	1	10/01/2020 17:11	WG1552502
Ethylbenzene	U		0.000306	0.00102	1	10/01/2020 17:11	WG1552502
Hexachloro-1,3-butadiene	U		0.000349	0.00102	1	10/01/2020 17:11	WG1552502
Isopropylbenzene	U		0.000433	0.00102	1	10/01/2020 17:11	WG1552502
p-Isopropyltoluene	U		0.000208	0.00102	1	10/01/2020 17:11	WG1552502
2-Butanone (MEK)	U		0.00477	0.0102	1	10/01/2020 17:11	WG1552502
Methylene Chloride	U		0.00102	0.00510	1	10/01/2020 17:11	WG1552502
4-Methyl-2-pentanone (MIBK)	U		0.000969	0.0102	1	10/01/2020 17:11	WG1552502
Methyl tert-butyl ether	U		0.000357	0.00102	1	10/01/2020 17:11	WG1552502
Naphthalene	U		0.00508	0.00510	1	10/01/2020 17:11	WG1552502
n-Propylbenzene	U		0.000210	0.00102	1	10/01/2020 17:11	WG1552502
Styrene	U		0.000227	0.00102	1	10/01/2020 17:11	WG1552502
1,1,1,2-Tetrachloroethane	U		0.000302	0.00102	1	10/01/2020 17:11	WG1552502
1,1,2,2-Tetrachloroethane	U		0.000236	0.00102	1	10/01/2020 17:11	WG1552502
1,1,2-Trichlorotrifluoroethane	U		0.000434	0.00102	1	10/01/2020 17:11	WG1552502
Tetrachloroethene	U		0.000331	0.00102	1	10/01/2020 17:11	WG1552502
Toluene	U		0.00125	0.00510	1	10/01/2020 17:11	WG1552502
1,2,3-Trichlorobenzene	U		0.000312	0.00102	1	10/01/2020 17:11	WG1552502
1,2,4-Trichlorobenzene	U		0.000396	0.00102	1	10/01/2020 17:11	WG1552502
1,1,1-Trichloroethane	U		0.000377	0.00102	1	10/01/2020 17:11	WG1552502
1,1,2-Trichloroethane	U		0.000433	0.00102	1	10/01/2020 17:11	WG1552502
Trichloroethene	U		0.000204	0.00102	1	10/01/2020 17:11	WG1552502
Trichlorofluoromethane	U		0.000363	0.00510	1	10/01/2020 17:11	WG1552502
1,2,3-Trichloropropane	U		0.000249	0.00255	1	10/01/2020 17:11	WG1552502
1,2,4-Trimethylbenzene	U		0.000215	0.00102	1	10/01/2020 17:11	WG1552502
1,2,3-Trimethylbenzene	U		0.000293	0.00102	1	10/01/2020 17:11	WG1552502
Vinyl chloride	U		0.000231	0.00102	1	10/01/2020 17:11	WG1552502
1,3,5-Trimethylbenzene	U		0.000271	0.00102	1	10/01/2020 17:11	WG1552502
Xylenes, Total	0.000564	B J	0.000510	0.00306	1	10/01/2020 17:11	WG1552502
Ethanol	U	J3	0.0500	0.102	1	10/01/2020 17:11	WG1552502
Ethyl tert-butyl ether	U		0.000255	0.00102	1	10/01/2020 17:11	WG1552502
tert-Amyl Methyl Ether	U		0.000408	0.00102	1	10/01/2020 17:11	WG1552502
tert-Butyl alcohol	U		0.00255	0.00510	1	10/01/2020 17:11	WG1552502
(S) Toluene-d8	*103*			*75.0-131*		*10/01/2020 17:11*	WG1552502
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/01/2020 17:11*	WG1552502
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*10/01/2020 17:11*	WG1552502

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		67.8	204	50	10/01/2020 12:28	WG1551543
Residual Range Organics (RRO)	497	J	169	510	50	10/01/2020 12:28	WG1551543
(S) o-Terphenyl	*100*	J7		*18.0-148*		*10/01/2020 12:28*	WG1551543

Sample Narrative:

L1265434-08 WG1551543: Cannot run at lower dilution due to viscosity of extract

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0216		0.00235	0.00612	1	10/01/2020 16:49	WG1551698
Acenaphthene	0.00299	J	0.00213	0.00612	1	10/01/2020 16:49	WG1551698
Acenaphthylene	U		0.00220	0.00612	1	10/01/2020 16:49	WG1551698
Benzo(a)anthracene	0.0745		0.00176	0.00612	1	10/01/2020 16:49	WG1551698
Benzo(a)pyrene	0.106		0.00183	0.00612	1	10/01/2020 16:49	WG1551698
Benzo(b)fluoranthene	0.122		0.00156	0.00612	1	10/01/2020 16:49	WG1551698
Benzo(g,h,i)perylene	0.154		0.00181	0.00612	1	10/01/2020 16:49	WG1551698
Benzo(k)fluoranthene	0.0353		0.00219	0.00612	1	10/01/2020 16:49	WG1551698
Chrysene	0.0827		0.00237	0.00612	1	10/01/2020 16:49	WG1551698
Dibenz(a,h)anthracene	0.0223		0.00175	0.00612	1	10/01/2020 16:49	WG1551698
Fluoranthene	0.120		0.00232	0.00612	1	10/01/2020 16:49	WG1551698
Fluorene	0.00369	J	0.00209	0.00612	1	10/01/2020 16:49	WG1551698
Indeno(1,2,3-cd)pyrene	0.0838		0.00185	0.00612	1	10/01/2020 16:49	WG1551698
Naphthalene	U		0.00416	0.0204	1	10/01/2020 16:49	WG1551698
Phenanthrene	0.0339		0.00236	0.00612	1	10/01/2020 16:49	WG1551698
Pyrene	0.135		0.00204	0.00612	1	10/01/2020 16:49	WG1551698
1-Methylnaphthalene	U		0.00458	0.0204	1	10/01/2020 16:49	WG1551698
2-Methylnaphthalene	U		0.00436	0.0204	1	10/01/2020 16:49	WG1551698
2-Chloronaphthalene	U		0.00475	0.0204	1	10/01/2020 16:49	WG1551698
(S) Nitrobenzene-d5	*65.6*			*14.0-149*		*10/01/2020 16:49*	WG1551698
(S) 2-Fluorobiphenyl	*94.9*			*34.0-125*		*10/01/2020 16:49*	WG1551698
(S) p-Terphenyl-d14	*99.1*			*23.0-120*		*10/01/2020 16:49*	WG1551698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.4		1	09/29/2020 14:29	WG1550922

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0183	0.0407	1	09/28/2020 19:25	WG1550168

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.63		0.429	1.02	5	09/29/2020 03:42	WG1550321
Barium	55.8		1.27	2.54	5	09/29/2020 03:42	WG1550321
Cadmium	U		0.413	1.02	5	09/29/2020 03:42	WG1550321
Chromium	10.6		2.28	5.08	5	09/29/2020 16:49	WG1550321
Lead	23.2		1.02	2.03	5	09/29/2020 03:42	WG1550321
Selenium	U		1.03	2.54	5	09/29/2020 03:42	WG1550321
Silver	U		0.217	0.508	5	09/29/2020 03:42	WG1550321

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		0.879	2.59	25	10/01/2020 00:45	WG1551593
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*77.0-120*		*10/01/2020 00:45*	WG1551593

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0741		0.0210	0.0508	1	10/01/2020 20:48	WG1552753
Acrylonitrile	U		0.00205	0.0102	1	10/01/2020 15:09	WG1552515
Benzene	U		0.000381	0.00102	1	10/01/2020 15:09	WG1552515
Bromobenzene	U		0.000280	0.00102	1	10/01/2020 15:09	WG1552515
Bromodichloromethane	U		0.000737	0.00102	1	10/01/2020 15:09	WG1552515
Bromoform	U		0.000431	0.00102	1	10/01/2020 15:09	WG1552515
Bromomethane	U		0.00119	0.00508	1	10/01/2020 15:09	WG1552515
n-Butylbenzene	U		0.000262	0.00102	1	10/01/2020 15:09	WG1552515
sec-Butylbenzene	U		0.000204	0.00102	1	10/01/2020 15:09	WG1552515
tert-Butylbenzene	U		0.000209	0.00102	1	10/01/2020 15:09	WG1552515
Carbon tetrachloride	U		0.000252	0.00102	1	10/01/2020 15:09	WG1552515
Chlorobenzene	U		0.000195	0.00102	1	10/01/2020 15:09	WG1552515
Chlorodibromomethane	U		0.000228	0.00102	1	10/01/2020 15:09	WG1552515
Chloroethane	U		0.00102	0.00508	1	10/01/2020 15:09	WG1552515
Chloroform	U		0.00105	0.00508	1	10/01/2020 15:09	WG1552515
Chloromethane	U		0.000661	0.00254	1	10/01/2020 15:09	WG1552515
2-Chlorotoluene	U		0.000229	0.00102	1	10/01/2020 15:09	WG1552515
4-Chlorotoluene	U		0.000703	0.00102	1	10/01/2020 15:09	WG1552515
1,2-Dibromo-3-Chloropropane	U		0.00193	0.00508	1	10/01/2020 15:09	WG1552515
1,2-Dibromoethane	U		0.000254	0.00102	1	10/01/2020 15:09	WG1552515
Dibromomethane	U		0.000356	0.00102	1	10/01/2020 15:09	WG1552515
1,2-Dichlorobenzene	U		0.000432	0.00102	1	10/01/2020 15:09	WG1552515
1,3-Dichlorobenzene	U		0.000610	0.00102	1	10/01/2020 15:09	WG1552515
1,4-Dichlorobenzene	U		0.000844	0.00102	1	10/01/2020 15:09	WG1552515
Dichlorodifluoromethane	U		0.000292	0.00508	1	10/01/2020 15:09	WG1552515
1,1-Dichloroethane	U		0.000272	0.00102	1	10/01/2020 15:09	WG1552515
1,2-Dichloroethane	U		0.000458	0.00102	1	10/01/2020 15:09	WG1552515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000361	0.00102	1	10/01/2020 15:09	WG1552515
cis-1,2-Dichloroethene	U		0.000483	0.00102	1	10/01/2020 15:09	WG1552515
trans-1,2-Dichloroethene	U		0.000508	0.00102	1	10/01/2020 15:09	WG1552515
1,2-Dichloropropane	U		0.000167	0.00102	1	10/01/2020 15:09	WG1552515
1,1-Dichloropropene	U		0.000381	0.00102	1	10/01/2020 15:09	WG1552515
1,3-Dichloropropane	U		0.000229	0.00102	1	10/01/2020 15:09	WG1552515
cis-1,3-Dichloropropene	U		0.000432	0.00102	1	10/01/2020 15:09	WG1552515
trans-1,3-Dichloropropene	U		0.000686	0.00102	1	10/01/2020 15:09	WG1552515
2,2-Dichloropropane	U		0.000381	0.00102	1	10/01/2020 15:09	WG1552515
Di-isopropyl ether	U		0.000225	0.00102	1	10/01/2020 15:09	WG1552515
Ethylbenzene	U		0.000305	0.00102	1	10/01/2020 15:09	WG1552515
Hexachloro-1,3-butadiene	U		0.000348	0.00102	1	10/01/2020 15:09	WG1552515
Isopropylbenzene	U		0.000432	0.00102	1	10/01/2020 15:09	WG1552515
p-Isopropyltoluene	U		0.000207	0.00102	1	10/01/2020 15:09	WG1552515
2-Butanone (MEK)	0.00783	J	0.00476	0.0102	1	10/01/2020 15:09	WG1552515
Methylene Chloride	U		0.00102	0.00508	1	10/01/2020 15:09	WG1552515
4-Methyl-2-pentanone (MIBK)	U		0.000966	0.0102	1	10/01/2020 15:09	WG1552515
Methyl tert-butyl ether	U		0.000356	0.00102	1	10/01/2020 15:09	WG1552515
Naphthalene	U		0.00506	0.00508	1	10/01/2020 15:09	WG1552515
n-Propylbenzene	U		0.000209	0.00102	1	10/01/2020 15:09	WG1552515
Styrene	U		0.000227	0.00102	1	10/01/2020 15:09	WG1552515
1,1,1,2-Tetrachloroethane	U		0.000301	0.00102	1	10/01/2020 15:09	WG1552515
1,1,2,2-Tetrachloroethane	U		0.000235	0.00102	1	10/01/2020 15:09	WG1552515
1,1,2-Trichlorotrifluoroethane	U		0.000433	0.00102	1	10/01/2020 15:09	WG1552515
Tetrachloroethene	U		0.000330	0.00102	1	10/01/2020 15:09	WG1552515
Toluene	U		0.00125	0.00508	1	10/01/2020 15:09	WG1552515
1,2,3-Trichlorobenzene	U		0.000311	0.00102	1	10/01/2020 15:09	WG1552515
1,2,4-Trichlorobenzene	U		0.000394	0.00102	1	10/01/2020 15:09	WG1552515
1,1,1-Trichloroethane	U		0.000376	0.00102	1	10/01/2020 15:09	WG1552515
1,1,2-Trichloroethane	U		0.000432	0.00102	1	10/01/2020 15:09	WG1552515
Trichloroethene	U		0.000203	0.00102	1	10/01/2020 15:09	WG1552515
Trichlorofluoromethane	U		0.000362	0.00508	1	10/01/2020 15:09	WG1552515
1,2,3-Trichloropropane	U		0.000248	0.00254	1	10/01/2020 15:09	WG1552515
1,2,4-Trimethylbenzene	U		0.000215	0.00102	1	10/01/2020 15:09	WG1552515
1,2,3-Trimethylbenzene	U		0.000292	0.00102	1	10/01/2020 15:09	WG1552515
Vinyl chloride	U		0.000230	0.00102	1	10/01/2020 15:09	WG1552515
1,3,5-Trimethylbenzene	U		0.000270	0.00102	1	10/01/2020 15:09	WG1552515
Xylenes, Total	U		0.000508	0.00305	1	10/01/2020 15:09	WG1552515
Ethanol	U	J0	0.0498	0.102	1	10/01/2020 15:09	WG1552515
Ethyl tert-butyl ether	U		0.000254	0.00102	1	10/01/2020 15:09	WG1552515
tert-Amyl Methyl Ether	U		0.000407	0.00102	1	10/01/2020 15:09	WG1552515
tert-Butyl alcohol	0.00668		0.00254	0.00508	1	10/01/2020 15:09	WG1552515
(S) Toluene-d8	*97.0*			*75.0-131*		*10/01/2020 15:09*	WG1552515
(S) Toluene-d8	*106*			*75.0-131*		*10/01/2020 20:48*	WG1552753
(S) 4-Bromofluorobenzene	*98.8*			*67.0-138*		*10/01/2020 15:09*	WG1552515
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*		*10/01/2020 20:48*	WG1552753
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*10/01/2020 15:09*	WG1552515
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/01/2020 20:48*	WG1552753

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		67.6	203	50	10/01/2020 12:41	WG1551543
Residual Range Organics (RRO)	526		169	508	50	10/01/2020 12:41	WG1551543
(S) o-Terphenyl	*113*	J7		*18.0-148*		*10/01/2020 12:41*	WG1551543

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch

Sample Narrative:

L1265434-09 WG1551543: Cannot run at lower dilution due to viscosity of extract

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0279		0.00234	0.00610	1	10/01/2020 17:31	WG1551698
Acenaphthene	0.00709		0.00212	0.00610	1	10/01/2020 17:31	WG1551698
Acenaphthylene	U		0.00220	0.00610	1	10/01/2020 17:31	WG1551698
Benzo(a)anthracene	0.124		0.00176	0.00610	1	10/01/2020 17:31	WG1551698
Benzo(a)pyrene	0.220		0.00182	0.00610	1	10/01/2020 17:31	WG1551698
Benzo(b)fluoranthene	0.234		0.00156	0.00610	1	10/01/2020 17:31	WG1551698
Benzo(g,h,i)perylene	0.176		0.00180	0.00610	1	10/01/2020 17:31	WG1551698
Benzo(k)fluoranthene	0.0728		0.00219	0.00610	1	10/01/2020 17:31	WG1551698
Chrysene	0.119		0.00236	0.00610	1	10/01/2020 17:31	WG1551698
Dibenz(a,h)anthracene	0.0361		0.00175	0.00610	1	10/01/2020 17:31	WG1551698
Fluoranthene	0.231		0.00231	0.00610	1	10/01/2020 17:31	WG1551698
Fluorene	0.00525	J	0.00208	0.00610	1	10/01/2020 17:31	WG1551698
Indeno(1,2,3-cd)pyrene	0.128		0.00184	0.00610	1	10/01/2020 17:31	WG1551698
Naphthalene	U		0.00415	0.0203	1	10/01/2020 17:31	WG1551698
Phenanthrene	0.0641		0.00235	0.00610	1	10/01/2020 17:31	WG1551698
Pyrene	0.269		0.00203	0.00610	1	10/01/2020 17:31	WG1551698
1-Methylnaphthalene	U		0.00457	0.0203	1	10/01/2020 17:31	WG1551698
2-Methylnaphthalene	U		0.00434	0.0203	1	10/01/2020 17:31	WG1551698
2-Chloronaphthalene	U		0.00474	0.0203	1	10/01/2020 17:31	WG1551698
(S) Nitrobenzene-d5	*60.8*			*14.0-149*		*10/01/2020 17:31*	WG1551698
(S) 2-Fluorobiphenyl	*91.6*			*34.0-125*		*10/01/2020 17:31*	WG1551698
(S) p-Terphenyl-d14	*92.3*			*23.0-120*		*10/01/2020 17:31*	WG1551698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.8		1	09/29/2020 14:29	WG1550922

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0184	0.0409	1	09/28/2020 19:28	WG1550168

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	6.47		0.431	1.02	5	09/29/2020 03:45	WG1550321
Barium	47.8		1.28	2.56	5	09/29/2020 03:45	WG1550321
Cadmium	U		0.415	1.02	5	09/29/2020 03:45	WG1550321
Chromium	8.67		2.29	5.11	5	09/29/2020 16:52	WG1550321
Lead	26.6		1.02	2.04	5	09/29/2020 03:45	WG1550321
Selenium	U		1.03	2.56	5	09/29/2020 03:45	WG1550321
Silver	U		0.218	0.511	5	09/29/2020 03:45	WG1550321

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		0.887	2.62	25	10/01/2020 01:08	WG1551593
(S) a,a,a-Trifluorotoluene(FID)	*96.8*			*77.0-120*		*10/01/2020 01:08*	WG1551593

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0597		0.0214	0.0516	1.01	10/01/2020 21:10	WG1552753
Acrylonitrile	U		0.00227	0.0112	1.1	10/01/2020 15:31	WG1552515
Benzene	0.000464	J	0.000422	0.00112	1.1	10/01/2020 15:31	WG1552515
Bromobenzene	U		0.000310	0.00112	1.1	10/01/2020 15:31	WG1552515
Bromodichloromethane	U		0.000815	0.00112	1.1	10/01/2020 15:31	WG1552515
Bromoform	U		0.000476	0.00112	1.1	10/01/2020 15:31	WG1552515
Bromomethane	U		0.00132	0.00562	1.1	10/01/2020 15:31	WG1552515
n-Butylbenzene	U		0.000290	0.00112	1.1	10/01/2020 15:31	WG1552515
sec-Butylbenzene	U		0.000226	0.00112	1.1	10/01/2020 15:31	WG1552515
tert-Butylbenzene	U		0.000232	0.00112	1.1	10/01/2020 15:31	WG1552515
Carbon tetrachloride	U		0.000279	0.00112	1.1	10/01/2020 15:31	WG1552515
Chlorobenzene	U		0.000216	0.00112	1.1	10/01/2020 15:31	WG1552515
Chlorodibromomethane	U		0.000251	0.00112	1.1	10/01/2020 15:31	WG1552515
Chloroethane	U		0.00112	0.00562	1.1	10/01/2020 15:31	WG1552515
Chloroform	U		0.00115	0.00562	1.1	10/01/2020 15:31	WG1552515
Chloromethane	U		0.000731	0.00281	1.1	10/01/2020 15:31	WG1552515
2-Chlorotoluene	U		0.000252	0.00112	1.1	10/01/2020 15:31	WG1552515
4-Chlorotoluene	U		0.000777	0.00112	1.1	10/01/2020 15:31	WG1552515
1,2-Dibromo-3-Chloropropane	U		0.00214	0.00562	1.1	10/01/2020 15:31	WG1552515
1,2-Dibromoethane	U		0.000281	0.00112	1.1	10/01/2020 15:31	WG1552515
Dibromomethane	U		0.000394	0.00112	1.1	10/01/2020 15:31	WG1552515
1,2-Dichlorobenzene	U		0.000478	0.00112	1.1	10/01/2020 15:31	WG1552515
1,3-Dichlorobenzene	U		0.000675	0.00112	1.1	10/01/2020 15:31	WG1552515
1,4-Dichlorobenzene	U		0.000933	0.00112	1.1	10/01/2020 15:31	WG1552515
Dichlorodifluoromethane	U		0.000323	0.00562	1.1	10/01/2020 15:31	WG1552515
1,1-Dichloroethane	U		0.000302	0.00112	1.1	10/01/2020 15:31	WG1552515
1,2-Dichloroethane	U		0.000506	0.00112	1.1	10/01/2020 15:31	WG1552515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000400	0.00112	1.1	10/01/2020 15:31	WG1552515
cis-1,2-Dichloroethene	U		0.000535	0.00112	1.1	10/01/2020 15:31	WG1552515
trans-1,2-Dichloroethene	U		0.000562	0.00112	1.1	10/01/2020 15:31	WG1552515
1,2-Dichloropropane	U		0.000184	0.00112	1.1	10/01/2020 15:31	WG1552515
1,1-Dichloropropene	U		0.000422	0.00112	1.1	10/01/2020 15:31	WG1552515
1,3-Dichloropropane	U		0.000252	0.00112	1.1	10/01/2020 15:31	WG1552515
cis-1,3-Dichloropropene	U		0.000478	0.00112	1.1	10/01/2020 15:31	WG1552515
trans-1,3-Dichloropropene	U		0.000759	0.00112	1.1	10/01/2020 15:31	WG1552515
2,2-Dichloropropane	U		0.000422	0.00112	1.1	10/01/2020 15:31	WG1552515
Di-isopropyl ether	U		0.000248	0.00112	1.1	10/01/2020 15:31	WG1552515
Ethylbenzene	U		0.000337	0.00112	1.1	10/01/2020 15:31	WG1552515
Hexachloro-1,3-butadiene	U		0.000384	0.00112	1.1	10/01/2020 15:31	WG1552515
Isopropylbenzene	U		0.000478	0.00112	1.1	10/01/2020 15:31	WG1552515
p-Isopropyltoluene	U		0.000229	0.00112	1.1	10/01/2020 15:31	WG1552515
2-Butanone (MEK)	0.00602	J	0.00526	0.0112	1.1	10/01/2020 15:31	WG1552515
Methylene Chloride	U		0.00112	0.00562	1.1	10/01/2020 15:31	WG1552515
4-Methyl-2-pentanone (MIBK)	U		0.00107	0.0112	1.1	10/01/2020 15:31	WG1552515
Methyl tert-butyl ether	U		0.000394	0.00112	1.1	10/01/2020 15:31	WG1552515
Naphthalene	U		0.00560	0.00562	1.1	10/01/2020 15:31	WG1552515
n-Propylbenzene	U		0.000232	0.00112	1.1	10/01/2020 15:31	WG1552515
Styrene	U		0.000250	0.00112	1.1	10/01/2020 15:31	WG1552515
1,1,1,2-Tetrachloroethane	U		0.000333	0.00112	1.1	10/01/2020 15:31	WG1552515
1,1,2,2-Tetrachloroethane	U		0.000260	0.00112	1.1	10/01/2020 15:31	WG1552515
1,1,2-Trichlorotrifluoroethane	U		0.000479	0.00112	1.1	10/01/2020 15:31	WG1552515
Tetrachloroethene	U		0.000366	0.00112	1.1	10/01/2020 15:31	WG1552515
Toluene	U		0.00138	0.00562	1.1	10/01/2020 15:31	WG1552515
1,2,3-Trichlorobenzene	U		0.000344	0.00112	1.1	10/01/2020 15:31	WG1552515
1,2,4-Trichlorobenzene	U		0.000436	0.00112	1.1	10/01/2020 15:31	WG1552515
1,1,1-Trichloroethane	U		0.000416	0.00112	1.1	10/01/2020 15:31	WG1552515
1,1,2-Trichloroethane	U		0.000478	0.00112	1.1	10/01/2020 15:31	WG1552515
Trichloroethene	U		0.000225	0.00112	1.1	10/01/2020 15:31	WG1552515
Trichlorofluoromethane	U		0.000401	0.00562	1.1	10/01/2020 15:31	WG1552515
1,2,3-Trichloropropane	U		0.000274	0.00281	1.1	10/01/2020 15:31	WG1552515
1,2,4-Trimethylbenzene	U		0.000237	0.00112	1.1	10/01/2020 15:31	WG1552515
1,2,3-Trimethylbenzene	U		0.000323	0.00112	1.1	10/01/2020 15:31	WG1552515
Vinyl chloride	U		0.000255	0.00112	1.1	10/01/2020 15:31	WG1552515
1,3,5-Trimethylbenzene	U		0.000299	0.00112	1.1	10/01/2020 15:31	WG1552515
Xylenes, Total	U		0.000562	0.00337	1.1	10/01/2020 15:31	WG1552515
Ethanol	U	J0	0.0551	0.112	1.1	10/01/2020 15:31	WG1552515
Ethyl tert-butyl ether	U		0.000281	0.00112	1.1	10/01/2020 15:31	WG1552515
tert-Amyl Methyl Ether	U		0.000450	0.00112	1.1	10/01/2020 15:31	WG1552515
tert-Butyl alcohol	0.00676		0.00281	0.00562	1.1	10/01/2020 15:31	WG1552515
(S) Toluene-d8	*95.9*			*75.0-131*		*10/01/2020 15:31*	WG1552515
(S) Toluene-d8	*107*			*75.0-131*		*10/01/2020 21:10*	WG1552753
(S) 4-Bromofluorobenzene	*99.9*			*67.0-138*		*10/01/2020 15:31*	WG1552515
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*10/01/2020 21:10*	WG1552753
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*10/01/2020 15:31*	WG1552515
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/01/2020 21:10*	WG1552753

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		68.0	204	50	10/01/2020 12:15	WG1551543
Residual Range Organics (RRO)	594		170	511	50	10/01/2020 12:15	WG1551543
(S) o-Terphenyl	*104*	J7		*18.0-148*		*10/01/2020 12:15*	WG1551543

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch

Sample Narrative:

L1265434-10 WG1551543: Cannot run at lower dilution due to viscosity of extract

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0642		0.0235	0.0613	10	10/01/2020 17:52	WG1551698
Acenaphthene	U		0.0214	0.0613	10	10/01/2020 17:52	WG1551698
Acenaphthylene	U		0.0221	0.0613	10	10/01/2020 17:52	WG1551698
Benzo(a)anthracene	0.172		0.0177	0.0613	10	10/01/2020 17:52	WG1551698
Benzo(a)pyrene	0.243		0.0183	0.0613	10	10/01/2020 17:52	WG1551698
Benzo(b)fluoranthene	0.299		0.0156	0.0613	10	10/01/2020 17:52	WG1551698
Benzo(g,h,i)perylene	0.221		0.0181	0.0613	10	10/01/2020 17:52	WG1551698
Benzo(k)fluoranthene	0.0918		0.0220	0.0613	10	10/01/2020 17:52	WG1551698
Chrysene	0.168		0.0237	0.0613	10	10/01/2020 17:52	WG1551698
Dibenz(a,h)anthracene	0.0406	J	0.0176	0.0613	10	10/01/2020 17:52	WG1551698
Fluoranthene	0.339		0.0232	0.0613	10	10/01/2020 17:52	WG1551698
Fluorene	U		0.0210	0.0613	10	10/01/2020 17:52	WG1551698
Indeno(1,2,3-cd)pyrene	0.166		0.0185	0.0613	10	10/01/2020 17:52	WG1551698
Naphthalene	U		0.0417	0.204	10	10/01/2020 17:52	WG1551698
Phenanthrene	0.163		0.0236	0.0613	10	10/01/2020 17:52	WG1551698
Pyrene	0.356		0.0204	0.0613	10	10/01/2020 17:52	WG1551698
1-Methylnaphthalene	U		0.0459	0.204	10	10/01/2020 17:52	WG1551698
2-Methylnaphthalene	U		0.0436	0.204	10	10/01/2020 17:52	WG1551698
2-Chloronaphthalene	U		0.0476	0.204	10	10/01/2020 17:52	WG1551698
(S) Nitrobenzene-d5	*31.0*			*14.0-149*		*10/01/2020 17:52*	WG1551698
(S) 2-Fluorobiphenyl	*94.8*			*34.0-125*		*10/01/2020 17:52*	WG1551698
(S) p-Terphenyl-d14	*97.9*			*23.0-120*		*10/01/2020 17:52*	WG1551698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.5		1	09/29/2020 14:29	WG1550922

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.123		0.0185	0.0410	1	09/28/2020 19:30	WG1550168

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	7.16		0.433	1.03	5	09/29/2020 03:49	WG1550321
Barium	83.4		1.28	2.56	5	09/29/2020 03:49	WG1550321
Cadmium	0.925	J	0.416	1.03	5	09/29/2020 03:49	WG1550321
Chromium	16.9		2.30	5.13	5	09/29/2020 16:56	WG1550321
Lead	85.7		1.03	2.05	5	09/29/2020 03:49	WG1550321
Selenium	U		1.04	2.56	5	09/29/2020 03:49	WG1550321
Silver	U		0.218	0.513	5	09/29/2020 03:49	WG1550321

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	1.08	J	0.977	2.88	27.5	10/01/2020 01:31	WG1551593
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*77.0-120*		*10/01/2020 01:31*	WG1551593

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0525		0.0212	0.0513	1	10/01/2020 21:31	WG1552753
Acrylonitrile	U		0.00207	0.0103	1	10/01/2020 21:31	WG1552753
Benzene	U		0.000385	0.00103	1	10/01/2020 21:31	WG1552753
Bromobenzene	U		0.000282	0.00103	1	10/01/2020 21:31	WG1552753
Bromodichloromethane	U		0.000743	0.00103	1	10/01/2020 21:31	WG1552753
Bromoform	U		0.000435	0.00103	1	10/01/2020 21:31	WG1552753
Bromomethane	U		0.00120	0.00513	1	10/01/2020 21:31	WG1552753
n-Butylbenzene	U		0.000265	0.00103	1	10/01/2020 21:31	WG1552753
sec-Butylbenzene	U		0.000206	0.00103	1	10/01/2020 21:31	WG1552753
tert-Butylbenzene	U		0.000211	0.00103	1	10/01/2020 21:31	WG1552753
Carbon tetrachloride	U		0.000254	0.00103	1	10/01/2020 21:31	WG1552753
Chlorobenzene	U		0.000197	0.00103	1	10/01/2020 21:31	WG1552753
Chlorodibromomethane	U		0.000230	0.00103	1	10/01/2020 21:31	WG1552753
Chloroethane	U		0.00103	0.00513	1	10/01/2020 21:31	WG1552753
Chloroform	U		0.00106	0.00513	1	10/01/2020 21:31	WG1552753
Chloromethane	U		0.000666	0.00256	1	10/01/2020 21:31	WG1552753
2-Chlorotoluene	U		0.000231	0.00103	1	10/01/2020 21:31	WG1552753
4-Chlorotoluene	U		0.000709	0.00103	1	10/01/2020 21:31	WG1552753
1,2-Dibromo-3-Chloropropane	U		0.00195	0.00513	1	10/01/2020 21:31	WG1552753
1,2-Dibromoethane	U		0.000256	0.00103	1	10/01/2020 21:31	WG1552753
Dibromomethane	U		0.000359	0.00103	1	10/01/2020 21:31	WG1552753
1,2-Dichlorobenzene	U		0.000436	0.00103	1	10/01/2020 21:31	WG1552753
1,3-Dichlorobenzene	U		0.000615	0.00103	1	10/01/2020 21:31	WG1552753
1,4-Dichlorobenzene	U		0.000851	0.00103	1	10/01/2020 21:31	WG1552753
Dichlorodifluoromethane	U		0.000294	0.00513	1	10/01/2020 21:31	WG1552753
1,1-Dichloroethane	U		0.000275	0.00103	1	10/01/2020 21:31	WG1552753
1,2-Dichloroethane	U		0.000461	0.00103	1	10/01/2020 21:31	WG1552753

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000364	0.00103	1	10/01/2020 21:31	WG1552753
cis-1,2-Dichloroethene	U		0.000487	0.00103	1	10/01/2020 21:31	WG1552753
trans-1,2-Dichloroethene	U		0.000513	0.00103	1	10/01/2020 21:31	WG1552753
1,2-Dichloropropane	U		0.000168	0.00103	1	10/01/2020 21:31	WG1552753
1,1-Dichloropropene	U		0.000385	0.00103	1	10/01/2020 21:31	WG1552753
1,3-Dichloropropane	U		0.000231	0.00103	1	10/01/2020 21:31	WG1552753
cis-1,3-Dichloropropene	U		0.000436	0.00103	1	10/01/2020 21:31	WG1552753
trans-1,3-Dichloropropene	U		0.000692	0.00103	1	10/01/2020 21:31	WG1552753
2,2-Dichloropropane	U		0.000385	0.00103	1	10/01/2020 21:31	WG1552753
Di-isopropyl ether	U		0.000227	0.00103	1	10/01/2020 21:31	WG1552753
Ethylbenzene	U		0.000308	0.00103	1	10/01/2020 21:31	WG1552753
Hexachloro-1,3-butadiene	U		0.000351	0.00103	1	10/01/2020 21:31	WG1552753
Isopropylbenzene	U		0.000436	0.00103	1	10/01/2020 21:31	WG1552753
p-Isopropyltoluene	U		0.000209	0.00103	1	10/01/2020 21:31	WG1552753
2-Butanone (MEK)	0.00836	J	0.00480	0.0103	1	10/01/2020 21:31	WG1552753
Methylene Chloride	U		0.00103	0.00513	1	10/01/2020 21:31	WG1552753
4-Methyl-2-pentanone (MIBK)	0.00213	J	0.000974	0.0103	1	10/01/2020 21:31	WG1552753
Methyl tert-butyl ether	U		0.000359	0.00103	1	10/01/2020 21:31	WG1552753
Naphthalene	U		0.00511	0.00513	1	10/01/2020 21:31	WG1552753
n-Propylbenzene	U		0.000211	0.00103	1	10/01/2020 21:31	WG1552753
Styrene	U		0.000229	0.00103	1	10/01/2020 21:31	WG1552753
1,1,1,2-Tetrachloroethane	U		0.000304	0.00103	1	10/01/2020 21:31	WG1552753
1,1,2,2-Tetrachloroethane	U		0.000237	0.00103	1	10/01/2020 21:31	WG1552753
1,1,2-Trichlorotrifluoroethane	U		0.000437	0.00103	1	10/01/2020 21:31	WG1552753
Tetrachloroethene	U		0.000333	0.00103	1	10/01/2020 21:31	WG1552753
Toluene	U		0.00126	0.00513	1	10/01/2020 21:31	WG1552753
1,2,3-Trichlorobenzene	U		0.000314	0.00103	1	10/01/2020 21:31	WG1552753
1,2,4-Trichlorobenzene	U		0.000398	0.00103	1	10/01/2020 21:31	WG1552753
1,1,1-Trichloroethane	U		0.000379	0.00103	1	10/01/2020 21:31	WG1552753
1,1,2-Trichloroethane	U		0.000436	0.00103	1	10/01/2020 21:31	WG1552753
Trichloroethene	U		0.000205	0.00103	1	10/01/2020 21:31	WG1552753
Trichlorofluoromethane	U		0.000365	0.00513	1	10/01/2020 21:31	WG1552753
1,2,3-Trichloropropane	U		0.000250	0.00256	1	10/01/2020 21:31	WG1552753
1,2,4-Trimethylbenzene	U		0.000216	0.00103	1	10/01/2020 21:31	WG1552753
1,2,3-Trimethylbenzene	U		0.000294	0.00103	1	10/01/2020 21:31	WG1552753
Vinyl chloride	U		0.000232	0.00103	1	10/01/2020 21:31	WG1552753
1,3,5-Trimethylbenzene	U		0.000273	0.00103	1	10/01/2020 21:31	WG1552753
Xylenes, Total	0.000518	B J	0.000513	0.00308	1	10/01/2020 21:31	WG1552753
Ethanol	U	J3	0.0502	0.103	1	10/01/2020 21:31	WG1552753
Ethyl tert-butyl ether	U		0.000256	0.00103	1	10/01/2020 21:31	WG1552753
tert-Amyl Methyl Ether	U		0.000410	0.00103	1	10/01/2020 21:31	WG1552753
tert-Butyl alcohol	0.00598	J0	0.00256	0.00513	1	10/01/2020 21:31	WG1552753
(S) Toluene-d8	*106*			*75.0-131*		*10/01/2020 21:31*	WG1552753
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*10/01/2020 21:31*	WG1552753
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*10/01/2020 21:31*	WG1552753

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	352	J	273	820	200	10/01/2020 12:55	WG1551543
Residual Range Organics (RRO)	2870		683	2050	200	10/01/2020 12:55	WG1551543
(S) o-Terphenyl	*196*	J7		*18.0-148*		*10/01/2020 12:55*	WG1551543

Sample Narrative:

L1265434-11 WG1551543: Cannot run at lower dilution due to viscosity of extract

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0958		0.0236	0.0615	10	10/01/2020 18:13	WG1551698
Acenaphthene	U		0.0214	0.0615	10	10/01/2020 18:13	WG1551698
Acenaphthylene	U		0.0221	0.0615	10	10/01/2020 18:13	WG1551698
Benzo(a)anthracene	0.189		0.0177	0.0615	10	10/01/2020 18:13	WG1551698
Benzo(a)pyrene	0.348		0.0184	0.0615	10	10/01/2020 18:13	WG1551698
Benzo(b)fluoranthene	0.449		0.0157	0.0615	10	10/01/2020 18:13	WG1551698
Benzo(g,h,i)perylene	0.455		0.0181	0.0615	10	10/01/2020 18:13	WG1551698
Benzo(k)fluoranthene	0.145		0.0220	0.0615	10	10/01/2020 18:13	WG1551698
Chrysene	0.217		0.0238	0.0615	10	10/01/2020 18:13	WG1551698
Dibenz(a,h)anthracene	0.0782		0.0176	0.0615	10	10/01/2020 18:13	WG1551698
Fluoranthene	0.287		0.0233	0.0615	10	10/01/2020 18:13	WG1551698
Fluorene	U		0.0210	0.0615	10	10/01/2020 18:13	WG1551698
Indeno(1,2,3-cd)pyrene	0.259		0.0186	0.0615	10	10/01/2020 18:13	WG1551698
Naphthalene	U		0.0418	0.205	10	10/01/2020 18:13	WG1551698
Phenanthrene	0.130		0.0237	0.0615	10	10/01/2020 18:13	WG1551698
Pyrene	0.352		0.0205	0.0615	10	10/01/2020 18:13	WG1551698
1-Methylnaphthalene	U		0.0460	0.205	10	10/01/2020 18:13	WG1551698
2-Methylnaphthalene	U		0.0438	0.205	10	10/01/2020 18:13	WG1551698
2-Chloronaphthalene	U		0.0478	0.205	10	10/01/2020 18:13	WG1551698
(S) Nitrobenzene-d5	*33.5*			*14.0-149*		*10/01/2020 18:13*	WG1551698
(S) 2-Fluorobiphenyl	*88.8*			*34.0-125*		*10/01/2020 18:13*	WG1551698
(S) p-Terphenyl-d14	*87.8*			*23.0-120*		*10/01/2020 18:13*	WG1551698

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.100	0.200	1	09/25/2020 13:17	WG1548375

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	U		0.735	2.00	1	09/29/2020 16:05	WG1549469
Barium	U		7.78	20.0	1	09/29/2020 16:05	WG1549469
Cadmium	U		0.478	1.00	1	09/29/2020 16:05	WG1549469
Chromium	U		1.49	2.00	1	09/29/2020 16:05	WG1549469
Lead	U		2.49	5.00	1	09/29/2020 16:05	WG1549469
Selenium	U		0.657	2.00	1	09/29/2020 16:05	WG1549469
Silver	U		0.513	2.00	1	09/29/2020 16:05	WG1549469

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	09/30/2020 01:51	WG1551428
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*09/30/2020 01:51*	WG1551428

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	25.0	1	09/30/2020 21:13	WG1551118
Acrylonitrile	U		0.671	5.00	1	09/30/2020 21:13	WG1551118
Benzene	U		0.0941	0.500	1	09/30/2020 21:13	WG1551118
Bromobenzene	U		0.118	0.500	1	09/30/2020 21:13	WG1551118
Bromodichloromethane	U		0.136	0.500	1	09/30/2020 21:13	WG1551118
Bromochloromethane	U	J4	0.128	0.500	1	09/30/2020 21:13	WG1551118
Bromoform	U		0.129	0.500	1	09/30/2020 21:13	WG1551118
Bromomethane	U		0.605	2.50	1	09/30/2020 21:13	WG1551118
n-Butylbenzene	U		0.157	0.500	1	09/30/2020 21:13	WG1551118
sec-Butylbenzene	U		0.125	0.500	1	09/30/2020 21:13	WG1551118
tert-Butylbenzene	U		0.127	0.500	1	09/30/2020 21:13	WG1551118
Carbon disulfide	U		0.0962	0.500	1	09/30/2020 21:13	WG1551118
Carbon tetrachloride	U		0.128	0.500	1	09/30/2020 21:13	WG1551118
Chlorobenzene	U		0.117	0.500	1	09/30/2020 21:13	WG1551118
Chlorodibromomethane	U		0.140	0.500	1	09/30/2020 21:13	WG1551118
Chloroethane	U		0.192	2.50	1	09/30/2020 21:13	WG1551118
Chloroform	U		0.111	0.500	1	09/30/2020 21:13	WG1551118
Chloromethane	U		0.960	1.25	1	09/30/2020 21:13	WG1551118
2-Chlorotoluene	U		0.106	0.500	1	09/30/2020 21:13	WG1551118
4-Chlorotoluene	U		0.114	0.500	1	09/30/2020 21:13	WG1551118
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	09/30/2020 21:13	WG1551118
1,2-Dibromoethane	U		0.126	0.500	1	09/30/2020 21:13	WG1551118
Dibromomethane	U		0.122	0.500	1	09/30/2020 21:13	WG1551118
1,2-Dichlorobenzene	U		0.107	0.500	1	09/30/2020 21:13	WG1551118
1,3-Dichlorobenzene	U		0.299	0.500	1	09/30/2020 21:13	WG1551118
1,4-Dichlorobenzene	U		0.120	0.500	1	09/30/2020 21:13	WG1551118
Dichlorodifluoromethane	U		0.374	2.50	1	09/30/2020 21:13	WG1551118
1,1-Dichloroethane	U		0.100	0.500	1	09/30/2020 21:13	WG1551118
1,2-Dichloroethane	U	J4	0.0819	0.500	1	09/30/2020 21:13	WG1551118
1,1-Dichloroethene	U		0.188	0.500	1	09/30/2020 21:13	WG1551118
cis-1,2-Dichloroethene	U		0.126	0.500	1	09/30/2020 21:13	WG1551118

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
trans-1,2-Dichloroethene	U		0.149	0.500	1	09/30/2020 21:13	WG1551118
1,2-Dichloropropane	U		0.149	0.500	1	09/30/2020 21:13	WG1551118
1,1-Dichloropropene	U		0.142	0.500	1	09/30/2020 21:13	WG1551118
1,3-Dichloropropane	U		0.109	1.00	1	09/30/2020 21:13	WG1551118
cis-1,3-Dichloropropene	U		0.111	0.500	1	09/30/2020 21:13	WG1551118
trans-1,3-Dichloropropene	U		0.118	0.500	1	09/30/2020 21:13	WG1551118
trans-1,4-Dichloro-2-butene	U	J0	0.467	5.00	1	09/30/2020 21:13	WG1551118
2,2-Dichloropropane	U		0.161	0.500	1	09/30/2020 21:13	WG1551118
Di-isopropyl ether	U		0.105	0.500	1	09/30/2020 21:13	WG1551118
Ethylbenzene	U		0.137	0.500	1	09/30/2020 21:13	WG1551118
Hexachloro-1,3-butadiene	U		0.337	1.00	1	09/30/2020 21:13	WG1551118
2-Hexanone	U		0.787	5.00	1	09/30/2020 21:13	WG1551118
n-Hexane	U		0.749	5.00	1	09/30/2020 21:13	WG1551118
Iodomethane	U		0.554	5.00	1	09/30/2020 21:13	WG1551118
Isopropylbenzene	U		0.105	0.500	1	09/30/2020 21:13	WG1551118
p-Isopropyltoluene	U		0.120	0.500	1	09/30/2020 21:13	WG1551118
2-Butanone (MEK)	U		1.19	5.00	1	09/30/2020 21:13	WG1551118
Methylene Chloride	U		0.430	2.50	1	09/30/2020 21:13	WG1551118
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	09/30/2020 21:13	WG1551118
Methyl tert-butyl ether	U		0.101	0.500	1	09/30/2020 21:13	WG1551118
Naphthalene	U		0.174	2.50	1	09/30/2020 21:13	WG1551118
n-Propylbenzene	U		0.0993	0.500	1	09/30/2020 21:13	WG1551118
Styrene	U		0.118	0.500	1	09/30/2020 21:13	WG1551118
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	09/30/2020 21:13	WG1551118
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	09/30/2020 21:13	WG1551118
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	09/30/2020 21:13	WG1551118
Tetrachloroethene	U	J4	0.300	0.500	1	09/30/2020 21:13	WG1551118
Toluene	U		0.278	0.500	1	09/30/2020 21:13	WG1551118
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/30/2020 21:13	WG1551118
1,2,4-Trichlorobenzene	U		0.481	1.00	1	09/30/2020 21:13	WG1551118
1,1,1-Trichloroethane	U		0.149	0.500	1	09/30/2020 21:13	WG1551118
1,1,2-Trichloroethane	U		0.158	0.500	1	09/30/2020 21:13	WG1551118
Trichloroethene	U	J4	0.190	0.500	1	09/30/2020 21:13	WG1551118
Trichlorofluoromethane	U		0.160	2.50	1	09/30/2020 21:13	WG1551118
1,2,3-Trichloropropane	U		0.237	2.50	1	09/30/2020 21:13	WG1551118
1,2,4-Trimethylbenzene	U		0.322	0.500	1	09/30/2020 21:13	WG1551118
1,2,3-Trimethylbenzene	U		0.104	0.500	1	09/30/2020 21:13	WG1551118
1,3,5-Trimethylbenzene	U		0.104	0.500	1	09/30/2020 21:13	WG1551118
Vinyl acetate	U		0.692	5.00	1	09/30/2020 21:13	WG1551118
Vinyl chloride	U		0.234	0.500	1	09/30/2020 21:13	WG1551118
Xylenes, Total	U		0.174	1.50	1	09/30/2020 21:13	WG1551118
tert-Butyl alcohol	U		4.06	5.00	1	09/30/2020 21:13	WG1551118
tert-Amyl Methyl Ether	U		0.195	1.00	1	09/30/2020 21:13	WG1551118
Ethyl tert-butyl ether	U		0.101	1.00	1	09/30/2020 21:13	WG1551118
Ethanol	U		42.0	100	1	09/30/2020 21:13	WG1551118
(S) Toluene-d8	*91.3*			*80.0-120*		*09/30/2020 21:13*	WG1551118
(S) 4-Bromofluorobenzene	*97.5*			*77.0-126*		*09/30/2020 21:13*	WG1551118
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*09/30/2020 21:13*	WG1551118

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	09/25/2020 23:31	WG1548353
Residual Range Organics (RRO)	U		83.3	250	1	09/25/2020 23:31	WG1548353
(S) o-Terphenyl	*84.7*			*52.0-156*		*09/25/2020 23:31*	WG1548353

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Anthracene	U	J3 J4 T8	0.0190	0.0500	1	09/30/2020 22:01	WG1551421
Acenaphthene	U	J3 J4 T8	0.0190	0.0500	1	09/30/2020 22:01	WG1551421
Acenaphthylene	U	J3 J4 T8	0.0170	0.0500	1	09/30/2020 22:01	WG1551421
Benzo(a)anthracene	U	J3 J4 T8	0.0200	0.0500	1	09/30/2020 22:01	WG1551421
Benzo(a)pyrene	U	J3 J4 T8	0.0180	0.0500	1	09/30/2020 22:01	WG1551421
Benzo(b)fluoranthene	U	J3 J4 T8	0.0170	0.0500	1	09/30/2020 22:01	WG1551421
Benzo(g,h,i)perylene	U	J4 T8	0.0180	0.0500	1	09/30/2020 22:01	WG1551421
Benzo(k)fluoranthene	U	J3 J4 T8	0.0200	0.250	1	09/30/2020 22:01	WG1551421
Chrysene	U	J3 J4 T8	0.0180	0.0500	1	09/30/2020 22:01	WG1551421
Dibenz(a,h)anthracene	U	J4 T8	0.0180	0.0500	1	09/30/2020 22:01	WG1551421
Fluoranthene	U	J3 J4 T8	0.0110	0.0500	1	09/30/2020 22:01	WG1551421
Fluorene	U	J3 J4 T8	0.0170	0.0500	1	09/30/2020 22:01	WG1551421
Indeno(1,2,3-cd)pyrene	U	J3 J4 T8	0.0180	0.0500	1	09/30/2020 22:01	WG1551421
Naphthalene	U	J3 J4 T8	0.128	0.500	1	09/30/2020 22:01	WG1551421
Phenanthrene	U	J3 J4 T8	0.0180	0.0500	1	09/30/2020 22:01	WG1551421
Pyrene	U	J3 J4 T8	0.0170	0.0500	1	09/30/2020 22:01	WG1551421
1-Methylnaphthalene	U	J3 J4 T8	0.0200	0.500	1	09/30/2020 22:01	WG1551421
2-Methylnaphthalene	U	J3 J4 T8	0.0280	0.500	1	09/30/2020 22:01	WG1551421
2-Chloronaphthalene	U	J3 J4 T8	0.0120	0.500	1	09/30/2020 22:01	WG1551421
(S) Nitrobenzene-d5	*101*			*11.0-135*		*09/30/2020 22:01*	WG1551421
(S) 2-Fluorobiphenyl	*110*			*32.0-120*		*09/30/2020 22:01*	WG1551421
(S) p-Terphenyl-d14	*115*			*23.0-122*		*09/30/2020 22:01*	WG1551421

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.3		1	09/29/2020 14:29	WG1550922

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0248	J	0.0193	0.0429	1	09/28/2020 21:04	WG1550165

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.18		0.452	1.07	5	09/29/2020 03:52	WG1550321
Barium	92.8		1.34	2.68	5	09/29/2020 03:52	WG1550321
Cadmium	U		0.435	1.07	5	09/29/2020 03:52	WG1550321
Chromium	8.72		2.40	5.36	5	09/29/2020 16:59	WG1550321
Lead	21.2		1.07	2.14	5	09/29/2020 03:52	WG1550321
Selenium	U		1.08	2.68	5	09/29/2020 03:52	WG1550321
Silver	U		0.228	0.536	5	09/29/2020 03:52	WG1550321

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		0.987	2.91	25	09/30/2020 14:27	WG1551598
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*09/30/2020 14:27*	WG1551598

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.207		0.0222	0.0536	1	10/01/2020 22:15	WG1552753
Acrylonitrile	U		0.00216	0.0107	1	10/01/2020 16:38	WG1552515
Benzene	0.000478	J	0.000402	0.00107	1	10/01/2020 16:38	WG1552515
Bromobenzene	U		0.000295	0.00107	1	10/01/2020 16:38	WG1552515
Bromodichloromethane	U		0.000777	0.00107	1	10/01/2020 16:38	WG1552515
Bromoform	U		0.000454	0.00107	1	10/01/2020 16:38	WG1552515
Bromomethane	U		0.00125	0.00536	1	10/01/2020 16:38	WG1552515
n-Butylbenzene	U		0.000276	0.00107	1	10/01/2020 16:38	WG1552515
sec-Butylbenzene	U		0.000215	0.00107	1	10/01/2020 16:38	WG1552515
tert-Butylbenzene	U		0.000221	0.00107	1	10/01/2020 16:38	WG1552515
Carbon tetrachloride	U		0.000266	0.00107	1	10/01/2020 16:38	WG1552515
Chlorobenzene	U		0.000206	0.00107	1	10/01/2020 16:38	WG1552515
Chlorodibromomethane	U		0.000240	0.00107	1	10/01/2020 16:38	WG1552515
Chloroethane	U		0.00107	0.00536	1	10/01/2020 16:38	WG1552515
Chloroform	U		0.00110	0.00536	1	10/01/2020 16:38	WG1552515
Chloromethane	U		0.000697	0.00268	1	10/01/2020 16:38	WG1552515
2-Chlorotoluene	U		0.000241	0.00107	1	10/01/2020 16:38	WG1552515
4-Chlorotoluene	U		0.000741	0.00107	1	10/01/2020 16:38	WG1552515
1,2-Dibromo-3-Chloropropane	U		0.00204	0.00536	1	10/01/2020 16:38	WG1552515
1,2-Dibromoethane	U		0.000268	0.00107	1	10/01/2020 16:38	WG1552515
Dibromomethane	U		0.000375	0.00107	1	10/01/2020 16:38	WG1552515
1,2-Dichlorobenzene	U		0.000455	0.00107	1	10/01/2020 16:38	WG1552515
1,3-Dichlorobenzene	U		0.000643	0.00107	1	10/01/2020 16:38	WG1552515
1,4-Dichlorobenzene	U		0.000889	0.00107	1	10/01/2020 16:38	WG1552515
Dichlorodifluoromethane	U		0.000308	0.00536	1	10/01/2020 16:38	WG1552515
1,1-Dichloroethane	U		0.000287	0.00107	1	10/01/2020 16:38	WG1552515
1,2-Dichloroethane	U		0.000482	0.00107	1	10/01/2020 16:38	WG1552515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000380	0.00107	1	10/01/2020 16:38	WG1552515
cis-1,2-Dichloroethene	U		0.000509	0.00107	1	10/01/2020 16:38	WG1552515
trans-1,2-Dichloroethene	U		0.000536	0.00107	1	10/01/2020 16:38	WG1552515
1,2-Dichloropropane	U		0.000176	0.00107	1	10/01/2020 16:38	WG1552515
1,1-Dichloropropene	U		0.000402	0.00107	1	10/01/2020 16:38	WG1552515
1,3-Dichloropropane	U		0.000241	0.00107	1	10/01/2020 16:38	WG1552515
cis-1,3-Dichloropropene	U		0.000455	0.00107	1	10/01/2020 16:38	WG1552515
trans-1,3-Dichloropropene	U		0.000723	0.00107	1	10/01/2020 16:38	WG1552515
2,2-Dichloropropane	U		0.000402	0.00107	1	10/01/2020 16:38	WG1552515
Di-isopropyl ether	U		0.000237	0.00107	1	10/01/2020 16:38	WG1552515
Ethylbenzene	U		0.000321	0.00107	1	10/01/2020 16:38	WG1552515
Hexachloro-1,3-butadiene	U		0.000367	0.00107	1	10/01/2020 16:38	WG1552515
Isopropylbenzene	U		0.000455	0.00107	1	10/01/2020 16:38	WG1552515
p-Isopropyltoluene	U		0.000219	0.00107	1	10/01/2020 16:38	WG1552515
2-Butanone (MEK)	0.0583		0.00502	0.0107	1	10/01/2020 16:38	WG1552515
Methylene Chloride	U		0.00107	0.00536	1	10/01/2020 16:38	WG1552515
4-Methyl-2-pentanone (MIBK)	U		0.00102	0.0107	1	10/01/2020 16:38	WG1552515
Methyl tert-butyl ether	U		0.000375	0.00107	1	10/01/2020 16:38	WG1552515
Naphthalene	U		0.00534	0.00536	1	10/01/2020 16:38	WG1552515
n-Propylbenzene	U		0.000221	0.00107	1	10/01/2020 16:38	WG1552515
Styrene	U		0.000239	0.00107	1	10/01/2020 16:38	WG1552515
1,1,1,2-Tetrachloroethane	U		0.000317	0.00107	1	10/01/2020 16:38	WG1552515
1,1,2,2-Tetrachloroethane	U		0.000248	0.00107	1	10/01/2020 16:38	WG1552515
1,1,2-Trichlorotrifluoroethane	U		0.000457	0.00107	1	10/01/2020 16:38	WG1552515
Tetrachloroethene	U		0.000348	0.00107	1	10/01/2020 16:38	WG1552515
Toluene	U		0.00132	0.00536	1	10/01/2020 16:38	WG1552515
1,2,3-Trichlorobenzene	U		0.000328	0.00107	1	10/01/2020 16:38	WG1552515
1,2,4-Trichlorobenzene	U		0.000416	0.00107	1	10/01/2020 16:38	WG1552515
1,1,1-Trichloroethane	U		0.000397	0.00107	1	10/01/2020 16:38	WG1552515
1,1,2-Trichloroethane	U		0.000455	0.00107	1	10/01/2020 16:38	WG1552515
Trichloroethene	U		0.000214	0.00107	1	10/01/2020 16:38	WG1552515
Trichlorofluoromethane	U		0.000382	0.00536	1	10/01/2020 16:38	WG1552515
1,2,3-Trichloropropane	U		0.000261	0.00268	1	10/01/2020 16:38	WG1552515
1,2,4-Trimethylbenzene	U		0.000226	0.00107	1	10/01/2020 16:38	WG1552515
1,2,3-Trimethylbenzene	U		0.000308	0.00107	1	10/01/2020 16:38	WG1552515
Vinyl chloride	U		0.000242	0.00107	1	10/01/2020 16:38	WG1552515
1,3,5-Trimethylbenzene	U		0.000285	0.00107	1	10/01/2020 16:38	WG1552515
Xylenes, Total	U		0.000536	0.00321	1	10/01/2020 16:38	WG1552515
Ethanol	U	J0	0.0525	0.107	1	10/01/2020 16:38	WG1552515
Ethyl tert-butyl ether	U		0.000268	0.00107	1	10/01/2020 16:38	WG1552515
tert-Amyl Methyl Ether	U		0.000429	0.00107	1	10/01/2020 16:38	WG1552515
tert-Butyl alcohol	U		0.00268	0.00536	1	10/01/2020 16:38	WG1552515
(S) Toluene-d8	*94.1*			*75.0-131*		*10/01/2020 16:38*	WG1552515
(S) Toluene-d8	*106*			*75.0-131*		*10/01/2020 22:15*	WG1552753
(S) 4-Bromofluorobenzene	*98.7*			*67.0-138*		*10/01/2020 16:38*	WG1552515
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/01/2020 22:15*	WG1552753
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*10/01/2020 16:38*	WG1552515
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/01/2020 22:15*	WG1552753

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	159		28.5	85.7	20	10/01/2020 16:25	WG1551543
Residual Range Organics (RRO)	446		71.4	214	20	10/01/2020 16:25	WG1551543
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*10/01/2020 16:25*	WG1551543

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00650		0.00246	0.00643	1	10/01/2020 16:28	WG1551698
Acenaphthene	U		0.00224	0.00643	1	10/01/2020 16:28	WG1551698
Acenaphthylene	U		0.00231	0.00643	1	10/01/2020 16:28	WG1551698
Benzo(a)anthracene	0.0273		0.00185	0.00643	1	10/01/2020 16:28	WG1551698
Benzo(a)pyrene	0.0349		0.00192	0.00643	1	10/01/2020 16:28	WG1551698
Benzo(b)fluoranthene	0.0527		0.00164	0.00643	1	10/01/2020 16:28	WG1551698
Benzo(g,h,i)perylene	0.0497		0.00190	0.00643	1	10/01/2020 16:28	WG1551698
Benzo(k)fluoranthene	0.0152		0.00230	0.00643	1	10/01/2020 16:28	WG1551698
Chrysene	0.0300		0.00249	0.00643	1	10/01/2020 16:28	WG1551698
Dibenz(a,h)anthracene	0.0109		0.00184	0.00643	1	10/01/2020 16:28	WG1551698
Fluoranthene	0.0490		0.00243	0.00643	1	10/01/2020 16:28	WG1551698
Fluorene	U		0.00220	0.00643	1	10/01/2020 16:28	WG1551698
Indeno(1,2,3-cd)pyrene	0.0323		0.00194	0.00643	1	10/01/2020 16:28	WG1551698
Naphthalene	U		0.00437	0.0214	1	10/01/2020 16:28	WG1551698
Phenanthrene	0.0221		0.00248	0.00643	1	10/01/2020 16:28	WG1551698
Pyrene	0.0624		0.00214	0.00643	1	10/01/2020 16:28	WG1551698
1-Methylnaphthalene	U		0.00481	0.0214	1	10/01/2020 16:28	WG1551698
2-Methylnaphthalene	U		0.00458	0.0214	1	10/01/2020 16:28	WG1551698
2-Chloronaphthalene	U		0.00499	0.0214	1	10/01/2020 16:28	WG1551698
(S) Nitrobenzene-d5	*57.9*			*14.0-149*		*10/01/2020 16:28*	WG1551698
(S) 2-Fluorobiphenyl	*84.9*			*34.0-125*		*10/01/2020 16:28*	WG1551698
(S) p-Terphenyl-d14	*88.2*			*23.0-120*		*10/01/2020 16:28*	WG1551698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.2		1	09/29/2020 14:29	WG1550922

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0183	0.0407	1	09/28/2020 21:06	WG1550165

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.69		0.430	1.02	5	09/29/2020 03:55	WG1550321
Barium	94.1		1.27	2.55	5	09/29/2020 03:55	WG1550321
Cadmium	U		0.413	1.02	5	09/29/2020 03:55	WG1550321
Chromium	11.0		2.28	5.09	5	09/29/2020 17:02	WG1550321
Lead	16.3		1.02	2.04	5	09/29/2020 03:55	WG1550321
Selenium	U		1.03	2.55	5	09/29/2020 03:55	WG1550321
Silver	U		0.217	0.509	5	09/29/2020 03:55	WG1550321

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		0.880	2.59	25	09/30/2020 14:47	WG1551598
(S) a,a,a-Trifluorotoluene(FID)	*106*			*77.0-120*		*09/30/2020 14:47*	WG1551598

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0530		0.0211	0.0509	1	10/01/2020 22:36	WG1552753
Acrylonitrile	U		0.00206	0.0102	1	10/01/2020 17:00	WG1552515
Benzene	0.000854	J	0.000382	0.00102	1	10/01/2020 17:00	WG1552515
Bromobenzene	U		0.000280	0.00102	1	10/01/2020 17:00	WG1552515
Bromodichloromethane	U		0.000738	0.00102	1	10/01/2020 17:00	WG1552515
Bromoform	U		0.000432	0.00102	1	10/01/2020 17:00	WG1552515
Bromomethane	U		0.00119	0.00509	1	10/01/2020 17:00	WG1552515
n-Butylbenzene	U		0.000263	0.00102	1	10/01/2020 17:00	WG1552515
sec-Butylbenzene	U		0.000205	0.00102	1	10/01/2020 17:00	WG1552515
tert-Butylbenzene	U		0.000210	0.00102	1	10/01/2020 17:00	WG1552515
Carbon tetrachloride	U		0.000253	0.00102	1	10/01/2020 17:00	WG1552515
Chlorobenzene	U		0.000196	0.00102	1	10/01/2020 17:00	WG1552515
Chlorodibromomethane	U		0.000228	0.00102	1	10/01/2020 17:00	WG1552515
Chloroethane	U		0.00102	0.00509	1	10/01/2020 17:00	WG1552515
Chloroform	U		0.00105	0.00509	1	10/01/2020 17:00	WG1552515
Chloromethane	U		0.000662	0.00255	1	10/01/2020 17:00	WG1552515
2-Chlorotoluene	U		0.000229	0.00102	1	10/01/2020 17:00	WG1552515
4-Chlorotoluene	U		0.000704	0.00102	1	10/01/2020 17:00	WG1552515
1,2-Dibromo-3-Chloropropane	U		0.00193	0.00509	1	10/01/2020 17:00	WG1552515
1,2-Dibromoethane	U		0.000255	0.00102	1	10/01/2020 17:00	WG1552515
Dibromomethane	U		0.000356	0.00102	1	10/01/2020 17:00	WG1552515
1,2-Dichlorobenzene	U		0.000433	0.00102	1	10/01/2020 17:00	WG1552515
1,3-Dichlorobenzene	U		0.000611	0.00102	1	10/01/2020 17:00	WG1552515
1,4-Dichlorobenzene	U		0.000845	0.00102	1	10/01/2020 17:00	WG1552515
Dichlorodifluoromethane	U		0.000292	0.00509	1	10/01/2020 17:00	WG1552515
1,1-Dichloroethane	U		0.000273	0.00102	1	10/01/2020 17:00	WG1552515
1,2-Dichloroethane	U		0.000458	0.00102	1	10/01/2020 17:00	WG1552515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000361	0.00102	1	10/01/2020 17:00	WG1552515
cis-1,2-Dichloroethene	U		0.000484	0.00102	1	10/01/2020 17:00	WG1552515
trans-1,2-Dichloroethene	U		0.000509	0.00102	1	10/01/2020 17:00	WG1552515
1,2-Dichloropropane	U		0.000167	0.00102	1	10/01/2020 17:00	WG1552515
1,1-Dichloropropene	U		0.000382	0.00102	1	10/01/2020 17:00	WG1552515
1,3-Dichloropropane	U		0.000229	0.00102	1	10/01/2020 17:00	WG1552515
cis-1,3-Dichloropropene	U		0.000433	0.00102	1	10/01/2020 17:00	WG1552515
trans-1,3-Dichloropropene	U		0.000687	0.00102	1	10/01/2020 17:00	WG1552515
2,2-Dichloropropane	U		0.000382	0.00102	1	10/01/2020 17:00	WG1552515
Di-isopropyl ether	U		0.000225	0.00102	1	10/01/2020 17:00	WG1552515
Ethylbenzene	U		0.000305	0.00102	1	10/01/2020 17:00	WG1552515
Hexachloro-1,3-butadiene	U		0.000348	0.00102	1	10/01/2020 17:00	WG1552515
Isopropylbenzene	U		0.000433	0.00102	1	10/01/2020 17:00	WG1552515
p-Isopropyltoluene	U		0.000208	0.00102	1	10/01/2020 17:00	WG1552515
2-Butanone (MEK)	0.00722	J	0.00477	0.0102	1	10/01/2020 17:00	WG1552515
Methylene Chloride	U		0.00102	0.00509	1	10/01/2020 17:00	WG1552515
4-Methyl-2-pentanone (MIBK)	U		0.000967	0.0102	1	10/01/2020 17:00	WG1552515
Methyl tert-butyl ether	U		0.000356	0.00102	1	10/01/2020 17:00	WG1552515
Naphthalene	U		0.00507	0.00509	1	10/01/2020 17:00	WG1552515
n-Propylbenzene	U		0.000210	0.00102	1	10/01/2020 17:00	WG1552515
Styrene	U		0.000227	0.00102	1	10/01/2020 17:00	WG1552515
1,1,1,2-Tetrachloroethane	U		0.000301	0.00102	1	10/01/2020 17:00	WG1552515
1,1,2,2-Tetrachloroethane	U		0.000235	0.00102	1	10/01/2020 17:00	WG1552515
1,1,2-Trichlorotrifluoroethane	U		0.000434	0.00102	1	10/01/2020 17:00	WG1552515
Tetrachloroethene	U		0.000331	0.00102	1	10/01/2020 17:00	WG1552515
Toluene	U		0.00125	0.00509	1	10/01/2020 17:00	WG1552515
1,2,3-Trichlorobenzene	U		0.000312	0.00102	1	10/01/2020 17:00	WG1552515
1,2,4-Trichlorobenzene	U		0.000395	0.00102	1	10/01/2020 17:00	WG1552515
1,1,1-Trichloroethane	U		0.000377	0.00102	1	10/01/2020 17:00	WG1552515
1,1,2-Trichloroethane	U		0.000433	0.00102	1	10/01/2020 17:00	WG1552515
Trichloroethene	U		0.000204	0.00102	1	10/01/2020 17:00	WG1552515
Trichlorofluoromethane	U		0.000363	0.00509	1	10/01/2020 17:00	WG1552515
1,2,3-Trichloropropane	U		0.000248	0.00255	1	10/01/2020 17:00	WG1552515
1,2,4-Trimethylbenzene	U		0.000215	0.00102	1	10/01/2020 17:00	WG1552515
1,2,3-Trimethylbenzene	U		0.000292	0.00102	1	10/01/2020 17:00	WG1552515
Vinyl chloride	U		0.000230	0.00102	1	10/01/2020 17:00	WG1552515
1,3,5-Trimethylbenzene	U		0.000271	0.00102	1	10/01/2020 17:00	WG1552515
Xylenes, Total	U		0.000509	0.00305	1	10/01/2020 17:00	WG1552515
Ethanol	U	J0	0.0499	0.102	1	10/01/2020 17:00	WG1552515
Ethyl tert-butyl ether	U		0.000255	0.00102	1	10/01/2020 17:00	WG1552515
tert-Amyl Methyl Ether	U		0.000407	0.00102	1	10/01/2020 17:00	WG1552515
tert-Butyl alcohol	0.00621		0.00255	0.00509	1	10/01/2020 17:00	WG1552515
(S) Toluene-d8	*97.2*			*75.0-131*		*10/01/2020 17:00*	WG1552515
(S) Toluene-d8	*106*			*75.0-131*		*10/01/2020 22:36*	WG1552753
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/01/2020 17:00*	WG1552515
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/01/2020 22:36*	WG1552753
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*10/01/2020 17:00*	WG1552515
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*10/01/2020 22:36*	WG1552753

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		5.42	16.3	4	10/01/2020 01:03	WG1551543
Residual Range Organics (RRO)	48.3		13.5	40.7	4	10/01/2020 01:03	WG1551543
(S) o-Terphenyl	*100*			*18.0-148*		*10/01/2020 01:03*	WG1551543

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch

Sample Narrative:

L1265434-15 WG1551543: Cannot run at lower dilution due to viscosity of extract

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0141		0.00234	0.00611	1	10/01/2020 15:05	WG1551698
Acenaphthene	0.00525	J	0.00213	0.00611	1	10/01/2020 15:05	WG1551698
Acenaphthylene	U		0.00220	0.00611	1	10/01/2020 15:05	WG1551698
Benzo(a)anthracene	0.0657		0.00176	0.00611	1	10/01/2020 15:05	WG1551698
Benzo(a)pyrene	0.0891		0.00182	0.00611	1	10/01/2020 15:05	WG1551698
Benzo(b)fluoranthene	0.125		0.00156	0.00611	1	10/01/2020 15:05	WG1551698
Benzo(g,h,i)perylene	0.0936		0.00180	0.00611	1	10/01/2020 15:05	WG1551698
Benzo(k)fluoranthene	0.0401		0.00219	0.00611	1	10/01/2020 15:05	WG1551698
Chrysene	0.0655		0.00236	0.00611	1	10/01/2020 15:05	WG1551698
Dibenz(a,h)anthracene	0.0181		0.00175	0.00611	1	10/01/2020 15:05	WG1551698
Fluoranthene	0.122		0.00231	0.00611	1	10/01/2020 15:05	WG1551698
Fluorene	0.00268	J	0.00209	0.00611	1	10/01/2020 15:05	WG1551698
Indeno(1,2,3-cd)pyrene	0.0673		0.00184	0.00611	1	10/01/2020 15:05	WG1551698
Naphthalene	0.00481	J	0.00415	0.0204	1	10/01/2020 15:05	WG1551698
Phenanthrene	0.0494		0.00235	0.00611	1	10/01/2020 15:05	WG1551698
Pyrene	0.135		0.00204	0.00611	1	10/01/2020 15:05	WG1551698
1-Methylnaphthalene	U		0.00457	0.0204	1	10/01/2020 15:05	WG1551698
2-Methylnaphthalene	0.00490	J	0.00435	0.0204	1	10/01/2020 15:05	WG1551698
2-Chloronaphthalene	U		0.00475	0.0204	1	10/01/2020 15:05	WG1551698
(S) Nitrobenzene-d5	*75.3*			*14.0-149*		*10/01/2020 15:05*	WG1551698
(S) 2-Fluorobiphenyl	*88.9*			*34.0-125*		*10/01/2020 15:05*	WG1551698
(S) p-Terphenyl-d14	*94.3*			*23.0-120*		*10/01/2020 15:05*	WG1551698

Method Blank (MB)

(MB) R3576081-1 09/29/20 14:37

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

L1265434-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1265434-05 09/29/20 14:37 • (DUP) R3576081-3 09/29/20 14:37

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	97.8	97.7	1	0.0715		10

Laboratory Control Sample (LCS)

(LCS) R3576081-2 09/29/20 14:37

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

Method Blank (MB)

(MB) R3576070-1 09/29/20 14:29

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

L1265434-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1265434-12 09/29/20 14:29 • (DUP) R3576070-3 09/29/20 14:29

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.9	92.9	1	0.0511		10

Laboratory Control Sample (LCS)

(LCS) R3576070-2 09/29/20 14:29

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

Method Blank (MB)

(MB) R3574437-1 09/25/20 12:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Mercury	U		0.100	0.200

Laboratory Control Sample (LCS)

(LCS) R3574437-2 09/25/20 12:49

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	3.00	3.45	115	80.0-120	

L1265428-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265428-01 09/25/20 12:51 • (MS) R3574437-3 09/25/20 12:53 • (MSD) R3574437-4 09/25/20 12:59

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 %
Mercury	3.00	U	3.12	3.13	104	104	1	75.0-125			0.404	20

Method Blank (MB)

(MB) R3575258-1 09/28/20 12:44

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) R3575258-2 09/28/20 12:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.591	118	80.0-120	

L1265434-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265434-05 09/28/20 12:49 • (MS) R3575258-3 09/28/20 12:52 • (MSD) R3575258-4 09/28/20 12:55

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	0.511	U	0.576	0.592	113	116	1	75.0-125			2.73	20

Method Blank (MB)

(MB) R3575448-1 09/28/20 20:44

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) R3575448-2 09/28/20 20:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.498	99.7	80.0-120	

L1265994-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265994-02 09/28/20 20:53 • (MS) R3575448-3 09/28/20 20:56 • (MSD) R3575448-4 09/28/20 20:59

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	0.597	0.0595	0.621	0.690	94.1	106	1	75.0-125			10.5	20

Method Blank (MB)

(MB) R3575446-1 09/28/20 18:22

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) R3575446-2 09/28/20 18:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.539	108	80.0-120	

L1265421-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265421-06 09/28/20 18:27 • (MS) R3575446-3 09/28/20 18:29 • (MSD) R3575446-4 09/28/20 18:32

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	0.646	0.135	0.829	0.834	107	108	1	75.0-125			0.498	20

Method Blank (MB)

(MB) R3575470-1 09/28/20 23:57

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Arsenic	U		0.735	2.00
Barium	U		7.78	20.0
Cadmium	U		0.478	1.00
Chromium	U	J	1.49	2.00
Lead	U		2.49	5.00
Selenium	U		0.657	2.00
Silver	U		0.513	2.00

Laboratory Control Sample (LCS)

(LCS) R3575470-2 09/29/20 00:00

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	50.0	50.3	101	80.0-120	
Barium	50.0	47.8	95.5	80.0-120	
Cadmium	50.0	52.6	105	80.0-120	
Chromium	50.0	54.0	108	80.0-120	
Lead	50.0	49.3	98.5	80.0-120	
Selenium	50.0	51.5	103	80.0-120	
Silver	50.0	54.4	109	80.0-120	

L1263093-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1263093-01 09/29/20 00:03 • (MS) R3575470-4 09/29/20 00:10 • (MSD) R3575470-5 09/29/20 00:13

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	U	50.2	50.3	100	101	1	75.0-125			0.237	20
Barium	50.0	27.6	73.8	72.9	92.4	90.7	1	75.0-125			1.19	20
Cadmium	50.0	U	53.1	52.6	106	105	1	75.0-125			1.05	20
Chromium	50.0	U	52.9	53.1	106	106	1	75.0-125			0.328	20
Lead	50.0	U	50.2	49.6	100	99.1	1	75.0-125			1.26	20
Selenium	50.0	U	51.7	51.0	103	102	1	75.0-125			1.19	20
Silver	50.0	U	53.7	52.9	107	106	1	75.0-125			1.49	20

Method Blank (MB)

(MB) R3575491-1 09/29/20 02:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.422	1.00
Barium	U		1.25	2.50
Cadmium	U		0.406	1.00
Lead	U		1.00	2.00
Selenium	U		1.01	2.50
Silver	U		0.213	0.500

Method Blank (MB)

(MB) R3575813-1 09/29/20 15:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		2.24	5.00

Laboratory Control Sample (LCS)

(LCS) R3575491-2 09/29/20 02:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	97.9	97.9	80.0-120	
Barium	100	95.3	95.3	80.0-120	
Cadmium	100	102	102	80.0-120	
Lead	100	101	101	80.0-120	
Selenium	100	100	100	80.0-120	
Silver	20.0	19.8	99.1	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3575813-2 09/29/20 15:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium	100	102	102	80.0-120	

L1265434-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265434-05 09/29/20 02:59 • (MS) R3575491-5 09/29/20 03:09 • (MSD) R3575491-6 09/29/20 03:12

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	20.5	8.51	107	101	96.1	90.8	5	75.0-125			5.15	20
Barium	20.5	66.6	154	150	85.8	81.1	5	75.0-125			3.14	20
Cadmium	20.5	U	112	105	109	102	5	75.0-125			6.68	20
Lead	20.5	24.1	125	120	98.3	93.8	5	75.0-125			3.83	20
Selenium	20.5	U	108	104	105	101	5	75.0-125			3.96	20
Silver	4.09	U	21.2	20.1	103	98.3	5	75.0-125			5.13	20

L1265434-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265434-05 09/29/20 16:02 • (MS) R3575813-5 09/29/20 16:12 • (MSD) R3575813-6 09/29/20 16:15

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 %
Chromium	20.5	11.9	113	104	99.3	90.2	5	75.0-125			8.54	20

Method Blank (MB)

(MB) R3576275-2 09/30/20 01:08

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)	*97.6*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3576275-1 09/30/20 00:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5.50	5.89	107	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*104*	*77.0-120*	

Method Blank (MB)

(MB) R3576500-2 09/30/20 16:51

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)	*96.5*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3576500-1 09/30/20 16:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5.50	5.63	102	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*77.0-120*	

L1265434-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265434-05 09/30/20 23:59 • (MS) R3576500-3 10/01/20 01:54 • (MSD) R3576500-4 10/01/20 03:03

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	130	7.18	147	129	107	93.7	25	10.0-149			12.9	27
(S) a,a,a-Trifluorotoluene(FID)					*107*	*106*		*77.0-120*				

Method Blank (MB)

(MB) R3576431-3 09/30/20 12:28

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)	*110*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3576431-2 09/30/20 11:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5.50	4.94	89.8	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*98.1*	*77.0-120*	

Method Blank (MB)

(MB) R3576247-2 09/30/20 01:10

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)	*112*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3576247-1 09/30/20 00:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5770	105	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*97.3*	*78.0-120*	

L1265311-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265311-02 09/30/20 02:33 • (MS) R3576247-3 09/30/20 08:30 • (MSD) R3576247-4 09/30/20 08:51

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 %
Gasoline Range Organics-NWTPH	5500	U	3800	3960	69.1	72.0	1	10.0-155			4.12	21
(S) a,a,a-Trifluorotoluene(FID)					*102*	*102*		*78.0-120*				

Method Blank (MB)

(MB) R3576598-2 09/30/20 19:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

Method Blank (MB)

(MB) R3576598-2 09/30/20 19:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Ethanol	U		42.0	100
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	0.582	J	0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	0.500
1,2,3-Trimethylbenzene	U		0.104	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
tert-Amyl Methyl Ether	U		0.195	1.00
Ethyl tert-butyl ether	U		0.101	1.00
tert-Butyl alcohol	U		4.06	5.00
(S) Toluene-d8	*91.8*			*80.0-120*
(S) 4-Bromofluorobenzene	*96.0*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3576598-1 09/30/20 19:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	32.1	128	19.0-160	
Acrylonitrile	25.0	29.3	117	55.0-149	
Benzene	5.00	5.81	116	70.0-123	
Bromobenzene	5.00	4.39	87.8	73.0-121	
Bromodichloromethane	5.00	5.50	110	75.0-120	
Bromochloromethane	5.00	6.98	140	76.0-122	J4
Bromoform	5.00	5.48	110	68.0-132	
Bromomethane	5.00	4.70	94.0	10.0-160	
n-Butylbenzene	5.00	4.38	87.6	73.0-125	
sec-Butylbenzene	5.00	4.49	89.8	75.0-125	
tert-Butylbenzene	5.00	4.84	96.8	76.0-124	
Carbon disulfide	5.00	5.86	117	61.0-128	
Carbon tetrachloride	5.00	6.27	125	68.0-126	
Chlorobenzene	5.00	5.77	115	80.0-121	
Chlorodibromomethane	5.00	5.76	115	77.0-125	
Chloroethane	5.00	4.54	90.8	47.0-150	
Chloroform	5.00	5.90	118	73.0-120	
Chloromethane	5.00	4.22	84.4	41.0-142	
2-Chlorotoluene	5.00	4.15	83.0	76.0-123	
4-Chlorotoluene	5.00	4.39	87.8	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.67	93.4	58.0-134	
1,2-Dibromoethane	5.00	5.44	109	80.0-122	
Dibromomethane	5.00	5.80	116	80.0-120	
1,2-Dichlorobenzene	5.00	4.94	98.8	79.0-121	
1,3-Dichlorobenzene	5.00	5.00	100	79.0-120	
1,4-Dichlorobenzene	5.00	5.18	104	79.0-120	
Dichlorodifluoromethane	5.00	5.85	117	51.0-149	
1,1-Dichloroethane	5.00	5.51	110	70.0-126	
1,2-Dichloroethane	5.00	6.57	131	70.0-128	J4
1,1-Dichloroethene	5.00	5.74	115	71.0-124	
cis-1,2-Dichloroethene	5.00	5.69	114	73.0-120	
trans-1,2-Dichloroethene	5.00	5.94	119	73.0-120	
1,2-Dichloropropane	5.00	5.49	110	77.0-125	
1,1-Dichloropropene	5.00	6.07	121	74.0-126	
1,3-Dichloropropane	5.00	5.15	103	80.0-120	
cis-1,3-Dichloropropene	5.00	5.32	106	80.0-123	
trans-1,3-Dichloropropene	5.00	4.78	95.6	78.0-124	
trans-1,4-Dichloro-2-butene	5.00	4.02	80.4	33.0-144	
2,2-Dichloropropane	5.00	4.90	98.0	58.0-130	
Di-isopropyl ether	5.00	5.13	103	58.0-138	

Laboratory Control Sample (LCS)

(LCS) R3576598-1 09/30/20 19:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	5.00	5.48	110	79.0-123	
Hexachloro-1,3-butadiene	5.00	5.43	109	54.0-138	
2-Hexanone	25.0	26.8	107	67.0-149	
n-Hexane	5.00	5.59	112	57.0-133	
Iodomethane	25.0	27.0	108	33.0-147	
Isopropylbenzene	5.00	5.49	110	76.0-127	
p-Isopropyltoluene	5.00	4.60	92.0	76.0-125	
2-Butanone (MEK)	25.0	29.4	118	44.0-160	
Methylene Chloride	5.00	5.28	106	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	25.1	100	68.0-142	
Methyl tert-butyl ether	5.00	5.95	119	68.0-125	
Naphthalene	5.00	4.03	80.6	54.0-135	
n-Propylbenzene	5.00	4.39	87.8	77.0-124	
Styrene	5.00	5.24	105	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.74	115	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	3.98	79.6	65.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	5.64	113	69.0-132	
Tetrachloroethene	5.00	6.97	139	72.0-132	J4
Toluene	5.00	5.36	107	79.0-120	
1,2,3-Trichlorobenzene	5.00	4.45	89.0	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.37	87.4	57.0-137	
1,1,1-Trichloroethane	5.00	6.19	124	73.0-124	
1,1,2-Trichloroethane	5.00	5.37	107	80.0-120	
Trichloroethene	5.00	6.84	137	78.0-124	J4
Trichlorofluoromethane	5.00	6.82	136	59.0-147	
1,2,3-Trichloropropane	5.00	4.83	96.6	73.0-130	
1,2,4-Trimethylbenzene	5.00	4.40	88.0	76.0-121	
1,2,3-Trimethylbenzene	5.00	4.55	91.0	77.0-120	
1,3,5-Trimethylbenzene	5.00	4.45	89.0	76.0-122	
Vinyl acetate	25.0	22.1	88.4	11.0-160	
Vinyl chloride	5.00	5.09	102	67.0-131	
Xylenes, Total	15.0	16.4	109	79.0-123	
tert-Butyl alcohol	25.0	33.2	133	27.0-160	
Ethanol	250	383	153	10.0-160	
tert-Amyl Methyl Ether	5.00	5.70	114	66.0-125	
Ethyl tert-butyl ether	5.00	5.67	113	63.0-138	
(S) Toluene-d8			*96.2*	*80.0-120*	
(S) 4-Bromofluorobenzene			*98.9*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*102*	*70.0-130*	

Method Blank (MB)

(MB) R3576907-4 10/01/20 13:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Acrylonitrile	U		0.00202	0.0100
Benzene	U		0.000375	0.00100
Bromobenzene	U		0.000275	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
2-Chlorotoluene	U		0.000225	0.00100
4-Chlorotoluene	U		0.000691	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dibromomethane	U		0.000350	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
1,1-Dichloropropene	U		0.000375	0.00100
1,3-Dichloropropane	U		0.000225	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
2,2-Dichloropropane	U		0.000375	0.00100
Di-isopropyl ether	U		0.000221	0.00100
Ethylbenzene	U		0.000300	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000425	0.00100

Method Blank (MB)

(MB) R3576907-4 10/01/20 13:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00498	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000223	0.00100
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
Tetrachloroethene	U		0.000325	0.00100
Toluene	U		0.00123	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
1,2,3-Trichloropropane	U		0.000244	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000226	0.00100
Xylenes, Total	0.000627	J	0.000500	0.00300
tert-Amyl Methyl Ether	U		0.000400	0.00100
Ethyl tert-butyl ether	U		0.000250	0.00100
tert-Butyl alcohol	U		0.00250	0.00500
Ethanol	U		0.0490	0.100
(S) Toluene-d8	*108*			*75.0-131*
(S) 4-Bromofluorobenzene	*101*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*95.9*			*70.0-130*

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

(LCS) R3576907-1 10/01/20 11:44 • (LCSD) R3576907-2 10/01/20 12:06

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	0.125	0.128	0.140	102	112	10.0-160			8.96	31
Acrylonitrile	0.125	0.123	0.131	98.4	105	45.0-153			6.30	22
Benzene	0.0250	0.0257	0.0255	103	102	70.0-123			0.781	20
Bromobenzene	0.0250	0.0250	0.0251	100	100	73.0-121			0.399	20
Bromodichloromethane	0.0250	0.0255	0.0256	102	102	73.0-121			0.391	20
Bromoform	0.0250	0.0268	0.0275	107	110	64.0-132			2.58	20
Bromomethane	0.0250	0.0305	0.0300	122	120	56.0-147			1.65	20
n-Butylbenzene	0.0250	0.0276	0.0273	110	109	68.0-135			1.09	20
sec-Butylbenzene	0.0250	0.0268	0.0262	107	105	74.0-130			2.26	20
tert-Butylbenzene	0.0250	0.0268	0.0259	107	104	75.0-127			3.42	20
Carbon tetrachloride	0.0250	0.0281	0.0276	112	110	66.0-128			1.80	20
Chlorobenzene	0.0250	0.0279	0.0277	112	111	76.0-128			0.719	20
Chlorodibromomethane	0.0250	0.0266	0.0266	106	106	74.0-127			0.000	20
Chloroethane	0.0250	0.0238	0.0239	95.2	95.6	61.0-134			0.419	20
Chloroform	0.0250	0.0262	0.0261	105	104	72.0-123			0.382	20
Chloromethane	0.0250	0.0257	0.0255	103	102	51.0-138			0.781	20
2-Chlorotoluene	0.0250	0.0267	0.0262	107	105	75.0-124			1.89	20
4-Chlorotoluene	0.0250	0.0267	0.0264	107	106	75.0-124			1.13	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0240	0.0256	96.0	102	59.0-130			6.45	20
1,2-Dibromoethane	0.0250	0.0264	0.0268	106	107	74.0-128			1.50	20
Dibromomethane	0.0250	0.0252	0.0260	101	104	75.0-122			3.13	20
1,2-Dichlorobenzene	0.0250	0.0260	0.0263	104	105	76.0-124			1.15	20
1,3-Dichlorobenzene	0.0250	0.0276	0.0272	110	109	76.0-125			1.46	20
1,4-Dichlorobenzene	0.0250	0.0271	0.0274	108	110	77.0-121			1.10	20
Dichlorodifluoromethane	0.0250	0.0265	0.0262	106	105	43.0-156			1.14	20
1,1-Dichloroethane	0.0250	0.0266	0.0261	106	104	70.0-127			1.90	20
1,2-Dichloroethane	0.0250	0.0254	0.0258	102	103	65.0-131			1.56	20
1,1-Dichloroethene	0.0250	0.0260	0.0258	104	103	65.0-131			0.772	20
cis-1,2-Dichloroethene	0.0250	0.0263	0.0262	105	105	73.0-125			0.381	20
trans-1,2-Dichloroethene	0.0250	0.0277	0.0272	111	109	71.0-125			1.82	20
1,2-Dichloropropane	0.0250	0.0260	0.0257	104	103	74.0-125			1.16	20
1,1-Dichloropropene	0.0250	0.0274	0.0270	110	108	73.0-125			1.47	20
1,3-Dichloropropane	0.0250	0.0263	0.0267	105	107	80.0-125			1.51	20
cis-1,3-Dichloropropene	0.0250	0.0266	0.0265	106	106	76.0-127			0.377	20
trans-1,3-Dichloropropene	0.0250	0.0276	0.0277	110	111	73.0-127			0.362	20
2,2-Dichloropropane	0.0250	0.0261	0.0262	104	105	59.0-135			0.382	20
Di-isopropyl ether	0.0250	0.0250	0.0251	100	100	60.0-136			0.399	20
Ethylbenzene	0.0250	0.0267	0.0261	107	104	74.0-126			2.27	20
Hexachloro-1,3-butadiene	0.0250	0.0262	0.0260	105	104	57.0-150			0.766	20
Isopropylbenzene	0.0250	0.0282	0.0278	113	111	72.0-127			1.43	20

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

(LCS) R3576907-1 10/01/20 11:44 • (LCSD) R3576907-2 10/01/20 12:06

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	0.0250	0.0279	0.0274	112	110	72.0-133			1.81	20
2-Butanone (MEK)	0.125	0.117	0.127	93.6	102	30.0-160			8.20	24
Methylene Chloride	0.0250	0.0260	0.0259	104	104	68.0-123			0.385	20
4-Methyl-2-pentanone (MIBK)	0.125	0.120	0.127	96.0	102	56.0-143			5.67	20
Methyl tert-butyl ether	0.0250	0.0243	0.0250	97.2	100	66.0-132			2.84	20
Naphthalene	0.0250	0.0240	0.0264	96.0	106	59.0-130			9.52	20
n-Propylbenzene	0.0250	0.0267	0.0263	107	105	74.0-126			1.51	20
Styrene	0.0250	0.0282	0.0279	113	112	72.0-127			1.07	20
1,1,1,2-Tetrachloroethane	0.0250	0.0276	0.0274	110	110	74.0-129			0.727	20
1,1,2,2-Tetrachloroethane	0.0250	0.0242	0.0252	96.8	101	68.0-128			4.05	20
Tetrachloroethene	0.0250	0.0284	0.0278	114	111	70.0-136			2.14	20
Toluene	0.0250	0.0267	0.0258	107	103	75.0-121			3.43	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0276	0.0273	110	109	61.0-139			1.09	20
1,2,3-Trichlorobenzene	0.0250	0.0254	0.0271	102	108	59.0-139			6.48	20
1,2,4-Trichlorobenzene	0.0250	0.0266	0.0277	106	111	62.0-137			4.05	20
1,1,1-Trichloroethane	0.0250	0.0266	0.0265	106	106	69.0-126			0.377	20
1,1,2-Trichloroethane	0.0250	0.0258	0.0261	103	104	78.0-123			1.16	20
Trichloroethene	0.0250	0.0276	0.0276	110	110	76.0-126			0.000	20
Trichlorofluoromethane	0.0250	0.0253	0.0259	101	104	61.0-142			2.34	20
1,2,3-Trichloropropane	0.0250	0.0258	0.0266	103	106	67.0-129			3.05	20
1,2,3-Trimethylbenzene	0.0250	0.0264	0.0264	106	106	74.0-124			0.000	20
1,2,4-Trimethylbenzene	0.0250	0.0255	0.0251	102	100	70.0-126			1.58	20
1,3,5-Trimethylbenzene	0.0250	0.0270	0.0266	108	106	73.0-127			1.49	20
tert-Amyl Methyl Ether	0.0250	0.0254	0.0258	102	103	66.0-135			1.56	20
Ethyl tert-butyl ether	0.0250	0.0262	0.0265	105	106	68.0-140			1.14	20
Vinyl chloride	0.0250	0.0261	0.0254	104	102	63.0-134			2.72	20
Xylenes, Total	0.0750	0.0805	0.0788	107	105	72.0-127			2.13	20
ethanol	1.00	0.854	1.39	85.4	139	10.0-160		J3	47.8	33
tert-Butyl alcohol	0.125	0.131	0.163	105	130	15.0-160			21.8	33
(S) Toluene-d8				*105*	*103*	*75.0-131*				
(S) 4-Bromofluorobenzene				*106*	*104*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*106*	*105*	*70.0-130*				

L1265421-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265421-06 10/02/20 03:39 • (MS) R3576907-5 10/01/20 22:58 • (MSD) R3576907-6 10/01/20 23:19

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 %
Acetone	0.162	0.0831	0.354	0.291	168	112	1	10.0-160	J5		19.6	40
Acrylonitrile	0.162	U	0.218	0.142	135	76.4	1	10.0-160		J3	42.3	40
Benzene	0.0323	0.000716	0.0313	0.0238	94.6	62.0	1	10.0-149			27.2	37
Bromobenzene	0.0323	U	0.0165	0.00853	51.2	22.9	1	10.0-156		J3	63.9	38
Bromodichloromethane	0.0323	U	0.0287	0.0191	88.8	51.4	1	10.0-143		J3	40.0	37
Bromoform	0.0323	U	0.0248	0.0134	76.8	36.1	1	10.0-146		J3	59.5	36
Bromomethane	0.0323	U	0.0335	0.0288	104	77.4	1	10.0-149			14.9	38
n-Butylbenzene	0.0323	U	0.0247	0.00853	76.4	22.9	1	10.0-160		J3	97.3	40
sec-Butylbenzene	0.0323	U	0.0278	0.0121	86.0	32.5	1	10.0-159		J3	78.6	39
tert-Butylbenzene	0.0323	U	0.0280	0.0142	86.8	38.2	1	10.0-156		J3	65.4	39
Carbon tetrachloride	0.0323	U	0.0353	0.0264	109	70.8	1	10.0-145			28.9	37
Chlorobenzene	0.0323	U	0.0233	0.0126	72.0	33.8	1	10.0-152		J3	59.6	39
Chlorodibromomethane	0.0323	U	0.0265	0.0162	82.0	43.4	1	10.0-146		J3	48.5	37
Chloroethane	0.0323	U	0.0320	0.0282	99.2	75.7	1	10.0-146			12.9	40
Chloroform	0.0323	U	0.0315	0.0230	97.6	61.8	1	10.0-146			31.3	37
Chloromethane	0.0323	U	0.0337	0.0280	104	75.3	1	10.0-159			18.4	37
2-Chlorotoluene	0.0323	U	0.0215	0.0105	66.4	28.3	1	10.0-159		J3	68.2	38
4-Chlorotoluene	0.0323	U	0.0174	0.00818	54.0	22.0	1	10.0-155		J3	72.3	39
1,2-Dibromo-3-Chloropropane	0.0323	U	0.0227	0.0129	70.4	34.7	1	10.0-151		J3	55.1	39
1,2-Dibromoethane	0.0323	U	0.0274	0.0163	84.8	43.8	1	10.0-148		J3	50.9	34
Dibromomethane	0.0323	U	0.0293	0.0187	90.8	50.3	1	10.0-147		J3	44.1	35
1,2-Dichlorobenzene	0.0323	U	0.0124	0.00519	38.3	14.0	1	10.0-155		J3	81.8	37
1,3-Dichlorobenzene	0.0323	U	0.0141	0.00570	43.6	15.3	1	10.0-153		J3	84.8	38
1,4-Dichlorobenzene	0.0323	U	0.0127	0.00532	39.3	14.3	1	10.0-151		J3	81.8	38
Dichlorodifluoromethane	0.0323	U	0.0320	0.0257	99.2	69.1	1	10.0-160			21.9	35
1,1-Dichloroethane	0.0323	U	0.0331	0.0255	102	68.4	1	10.0-147			26.0	37
1,2-Dichloroethane	0.0323	U	0.0309	0.0208	95.6	55.9	1	10.0-148		J3	39.0	35
1,1-Dichloroethene	0.0323	U	0.0328	0.0258	102	69.4	1	10.0-155			23.8	37
cis-1,2-Dichloroethene	0.0323	U	0.0300	0.0217	92.8	58.3	1	10.0-149			32.0	37
trans-1,2-Dichloroethene	0.0323	U	0.0320	0.0238	99.2	63.9	1	10.0-150			29.6	37
1,2-Dichloropropane	0.0323	U	0.0305	0.0213	94.4	57.3	1	10.0-148			35.4	37
1,1-Dichloropropene	0.0323	U	0.0335	0.0236	104	63.5	1	10.0-153			34.4	35
1,3-Dichloropropane	0.0323	U	0.0284	0.0178	88.0	47.9	1	10.0-154		J3	45.8	35
cis-1,3-Dichloropropene	0.0323	U	0.0267	0.0167	82.8	44.8	1	10.0-151		J3	46.4	37
trans-1,3-Dichloropropene	0.0323	U	0.0247	0.0143	76.4	38.5	1	10.0-148		J3	53.0	37
2,2-Dichloropropane	0.0323	U	0.0342	0.0260	106	69.8	1	10.0-138			27.5	36
Di-isopropyl ether	0.0323	U	0.0302	0.0209	93.6	56.3	1	10.0-147		J3	36.4	36
Ethylbenzene	0.0323	U	0.0269	0.0159	83.2	42.7	1	10.0-160		J3	51.4	38
Hexachloro-1,3-butadiene	0.0323	U	0.0218	0.00600	67.6	16.1	1	10.0-160		J3	114	40

L1265421-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265421-06 10/02/20 03:39 • (MS) R3576907-5 10/01/20 22:58 • (MSD) R3576907-6 10/01/20 23:19

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 %
Isopropylbenzene	0.0323	U	0.0300	0.0160	92.8	43.1	1	10.0-155		J3	60.7	38
p-Isopropyltoluene	0.0323	U	0.0269	0.0112	83.2	30.0	1	10.0-160		J3	82.5	40
2-Butanone (MEK)	0.162	0.00810	0.248	0.160	149	81.8	1	10.0-160		J3	43.0	40
Methylene Chloride	0.0323	U	0.0311	0.0235	96.4	63.2	1	10.0-141			27.9	37
4-Methyl-2-pentanone (MIBK)	0.162	U	0.207	0.119	128	63.9	1	10.0-160		J3	54.0	35
Methyl tert-butyl ether	0.0323	U	0.0328	0.0213	102	57.3	1	11.0-147		J3	42.5	35
Naphthalene	0.0323	U	U	U	0.000	0.000	1	10.0-160	J6	J6	0.000	36
n-Propylbenzene	0.0323	U	0.0257	0.0128	79.6	34.3	1	10.0-158		J3	67.2	38
Styrene	0.0323	U	0.0191	0.00890	59.2	23.9	1	10.0-160		J3	72.9	40
1,1,1,2-Tetrachloroethane	0.0323	U	0.0284	0.0174	88.0	46.9	1	10.0-149		J3	47.9	39
1,1,2,2-Tetrachloroethane	0.0323	U	0.0253	0.0150	78.4	40.3	1	10.0-160		J3	51.3	35
Tetrachloroethene	0.0323	U	0.0313	0.0191	96.8	51.4	1	10.0-156		J3	48.2	39
Toluene	0.0323	U	0.0279	0.0190	86.4	51.0	1	10.0-156			38.0	38
1,1,2-Trichlorotrifluoroethane	0.0323	U	0.0359	0.0256	111	68.8	1	10.0-160			33.6	36
1,2,3-Trichlorobenzene	0.0323	U	0.00687	0.00234	21.3	6.28	1	10.0-160		J3 J6	98.5	40
1,2,4-Trichlorobenzene	0.0323	U	0.00742	0.00244	23.0	6.56	1	10.0-160		J3 J6	101	40
1,1,1-Trichloroethane	0.0323	U	0.0344	0.0266	106	71.5	1	10.0-144			25.4	35
1,1,2-Trichloroethane	0.0323	U	0.0292	0.0178	90.4	47.9	1	10.0-160		J3	48.4	35
Trichloroethene	0.0323	U	0.0311	0.0212	96.4	56.9	1	10.0-156			38.0	38
Trichlorofluoromethane	0.0323	U	0.0393	0.0296	122	79.5	1	10.0-160			28.1	40
1,2,3-Trichloropropane	0.0323	U	0.0279	0.0167	86.4	44.8	1	10.0-156		J3	50.4	35
1,2,3-Trimethylbenzene	0.0323	U	0.0196	0.00917	60.8	24.7	1	10.0-160		J3	72.6	36
1,2,4-Trimethylbenzene	0.0323	U	0.0204	0.00952	63.2	25.6	1	10.0-160		J3	72.8	36
1,3,5-Trimethylbenzene	0.0323	U	0.0246	0.0120	76.0	32.1	1	10.0-160		J3	69.0	38
Vinyl chloride	0.0323	U	0.0340	0.0279	105	75.0	1	10.0-160			19.6	37
Xylenes, Total	0.0969	U	0.0773	0.0426	79.7	38.2	1	10.0-160		J3	57.8	38
ethanol	1.29	U	3.75	2.21	290	149	1	50.0-150	J5	J3	51.6	20
tert-Butyl alcohol	0.162	U	0.429	0.269	266	144	1	50.0-150	J5	J3	45.9	20
(S) Toluene-d8					*102*	*103*		*75.0-131*				
(S) 4-Bromofluorobenzene					*105*	*103*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*117*	*109*		*70.0-130*				

L1265434-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265434-05 10/01/20 16:06 • (MS) R3576907-7 10/01/20 23:41 • (MSD) R3576907-8 10/02/20 00:03

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 %
Acetone	0.117	0.299	0.540	0.562	207	239	1	10.0-160	J5	J5	4.08	40
Acrylonitrile	0.117	U	0.191	0.147	164	133	1	10.0-160	J5		26.0	40
Benzene	0.0233	0.000708	0.0239	0.0121	99.6	51.7	1	10.0-149		J3	65.9	37
Bromobenzene	0.0233	U	0.0154	0.00945	66.2	43.0	1	10.0-156		J3	48.2	38
Bromodichloromethane	0.0233	U	0.0205	0.0124	87.7	56.3	1	10.0-143		J3	49.2	37
Bromoform	0.0233	U	0.0193	0.0138	82.9	62.8	1	10.0-146			33.3	36
Bromomethane	0.0233	U	0.0318	0.0170	136	77.2	1	10.0-149		J3	60.8	38
n-Butylbenzene	0.0233	U	0.0208	0.00849	89.0	38.6	1	10.0-160		J3	83.9	40
sec-Butylbenzene	0.0233	U	0.0245	0.0111	105	50.7	1	10.0-159		J3	75.1	39
tert-Butylbenzene	0.0233	U	0.0226	0.0101	96.9	46.1	1	10.0-156		J3	76.1	39
Carbon tetrachloride	0.0233	U	0.0287	0.0133	123	60.5	1	10.0-145		J3	73.5	37
Chlorobenzene	0.0233	U	0.0193	0.0104	82.9	47.4	1	10.0-152		J3	59.8	39
Chlorodibromomethane	0.0233	U	0.0200	0.0126	86.0	57.2	1	10.0-146		J3	45.8	37
Chloroethane	0.0233	U	0.0251	0.0127	107	57.7	1	10.0-146		J3	65.6	40
Chloroform	0.0233	U	0.0232	0.0124	99.6	56.3	1	10.0-146		J3	60.9	37
Chloromethane	0.0233	U	0.00173	0.00163	7.41	7.40	1	10.0-159	J6	J6	6.10	37
2-Chlorotoluene	0.0233	U	0.0182	0.00978	78.1	44.5	1	10.0-159		J3	60.2	38
4-Chlorotoluene	0.0233	U	0.0171	0.00791	73.2	36.0	1	10.0-155		J3	73.3	39
1,2-Dibromo-3-Chloropropane	0.0233	U	0.0256	0.0213	110	96.7	1	10.0-151			18.3	39
1,2-Dibromoethane	0.0233	U	0.0215	0.0157	92.1	71.6	1	10.0-148			30.8	34
Dibromomethane	0.0233	U	0.0211	0.0147	90.4	67.0	1	10.0-147		J3	35.4	35
1,2-Dichlorobenzene	0.0233	U	0.0127	0.00781	54.4	35.5	1	10.0-155		J3	47.5	37
1,3-Dichlorobenzene	0.0233	U	0.0145	0.00765	62.3	34.8	1	10.0-153		J3	62.0	38
1,4-Dichlorobenzene	0.0233	U	0.0130	0.00724	55.7	32.9	1	10.0-151		J3	56.8	38
Dichlorodifluoromethane	0.0233	U	0.0251	0.0111	107	50.7	1	10.0-160		J3	76.8	35
1,1-Dichloroethane	0.0233	U	0.0242	0.0123	104	55.8	1	10.0-147		J3	65.5	37
1,2-Dichloroethane	0.0233	U	0.0220	0.0146	94.3	66.5	1	10.0-148		J3	40.2	35
1,1-Dichloroethene	0.0233	U	0.0242	0.0112	104	51.2	1	10.0-155		J3	73.2	37
cis-1,2-Dichloroethene	0.0233	U	0.0216	0.0123	92.5	55.8	1	10.0-149		J3	55.0	37
trans-1,2-Dichloroethene	0.0233	U	0.0233	0.0110	100	50.2	1	10.0-150		J3	71.4	37
1,2-Dichloropropane	0.0233	U	0.0221	0.0131	94.7	59.5	1	10.0-148		J3	51.2	37
1,1-Dichloropropene	0.0233	U	0.0253	0.0115	108	52.1	1	10.0-153		J3	75.2	35
1,3-Dichloropropane	0.0233	U	0.0213	0.0154	91.2	70.2	1	10.0-154			31.8	35
cis-1,3-Dichloropropene	0.0233	U	0.0196	0.0117	84.2	53.0	1	10.0-151		J3	51.0	37
trans-1,3-Dichloropropene	0.0233	U	0.0191	0.0128	82.0	58.1	1	10.0-148		J3	39.7	37
2,2-Dichloropropane	0.0233	U	0.0299	0.0158	128	72.1	1	10.0-138		J3	61.3	36
Di-isopropyl ether	0.0233	U	0.0212	0.0116	90.8	52.6	1	10.0-147		J3	58.7	36
Ethylbenzene	0.0233	U	0.0207	0.0101	88.6	46.0	1	10.0-160		J3	68.5	38
Hexachloro-1,3-butadiene	0.0233	U	0.0192	0.00769	82.5	35.0	1	10.0-160		J3	85.7	40

L1265434-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265434-05 10/01/20 16:06 • (MS) R3576907-7 10/01/20 23:41 • (MSD) R3576907-8 10/02/20 00:03

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 %
Isopropylbenzene	0.0233	U	0.0228	0.0101	97.8	46.1	1	10.0-155		J3	76.8	38
p-Isopropyltoluene	0.0233	0.00600	0.0285	0.0168	96.6	49.0	1	10.0-160		J3	51.9	40
2-Butanone (MEK)	0.117	0.00759	0.211	0.168	174	145	1	10.0-160	J5		22.7	40
Methylene Chloride	0.0233	U	0.0216	0.0118	92.5	53.5	1	10.0-141		J3	58.9	37
4-Methyl-2-pentanone (MIBK)	0.117	U	0.157	0.131	135	119	1	10.0-160			18.4	35
Methyl tert-butyl ether	0.0233	U	0.0210	0.0143	89.9	65.1	1	11.0-147		J3	37.7	35
Naphthalene	0.0233	U	0.00936	0.00784	40.1	35.7	1	10.0-160			17.6	36
n-Propylbenzene	0.0233	U	0.0212	0.00977	90.8	44.4	1	10.0-158		J3	73.7	38
Styrene	0.0233	U	0.0169	0.00883	72.4	40.2	1	10.0-160		J3	62.5	40
1,1,1,2-Tetrachloroethane	0.0233	U	0.0205	0.0116	87.7	52.6	1	10.0-149		J3	55.6	39
1,1,2,2-Tetrachloroethane	0.0233	U	0.0216	0.0177	92.5	80.5	1	10.0-160			19.8	35
Tetrachloroethene	0.0233	U	0.0240	0.0108	103	49.3	1	10.0-156		J3	75.7	39
Toluene	0.0233	0.0121	0.0357	0.0240	101	54.4	1	10.0-156		J3	39.0	38
1,1,2-Trichlorotrifluoroethane	0.0233	U	0.0270	0.0107	116	48.8	1	10.0-160		J3	86.2	36
1,2,3-Trichlorobenzene	0.0233	U	0.00792	0.00528	34.0	24.0	1	10.0-160		J3	40.1	40
1,2,4-Trichlorobenzene	0.0233	U	0.00852	0.00493	36.5	22.4	1	10.0-160		J3	53.4	40
1,1,1-Trichloroethane	0.0233	U	0.0254	0.0117	109	53.0	1	10.0-144		J3	74.0	35
1,1,2-Trichloroethane	0.0233	U	0.0212	0.0146	90.8	66.5	1	10.0-160		J3	36.6	35
Trichloroethene	0.0233	U	0.0237	0.0116	102	52.6	1	10.0-156		J3	69.0	38
Trichlorofluoromethane	0.0233	U	0.0248	0.0103	107	47.0	1	10.0-160		J3	82.6	40
1,2,3-Trichloropropane	0.0233	U	0.0239	0.0201	103	91.6	1	10.0-156			17.2	35
1,2,3-Trimethylbenzene	0.0233	U	0.0174	0.00911	74.6	41.4	1	10.0-160		J3	62.4	36
1,2,4-Trimethylbenzene	0.0233	0.000297	0.0183	0.00890	77.2	39.1	1	10.0-160		J3	69.2	36
1,3,5-Trimethylbenzene	0.0233	U	0.0202	0.00939	86.8	42.7	1	10.0-160		J3	73.3	38
Vinyl chloride	0.0233	U	0.0262	0.0111	112	50.7	1	10.0-160		J3	80.5	37
Xylenes, Total	0.0698	0.00117	0.0618	0.0305	86.8	44.4	1	10.0-160		J3	67.8	38
ethanol	0.930	0.0991	4.05	3.53	425	390	1	50.0-150	J5	J5	13.8	20
tert-Butyl alcohol	0.117	U	0.410	0.301	352	272	1	50.0-150	J5	J3 J5	30.8	20
(S) Toluene-d8					*102*	*107*		*75.0-131*				
(S) 4-Bromofluorobenzene					*103*	*107*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*126*	*121*		*70.0-130*				

Method Blank (MB)

(MB) R3576810-5 10/01/20 13:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00202	0.0100
Benzene	U		0.000375	0.00100
Bromobenzene	U		0.000275	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
2-Chlorotoluene	U		0.000225	0.00100
4-Chlorotoluene	U		0.000691	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dibromomethane	U		0.000350	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
1,1-Dichloropropene	U		0.000375	0.00100
1,3-Dichloropropane	U		0.000225	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
2,2-Dichloropropane	U		0.000375	0.00100
Di-isopropyl ether	U		0.000221	0.00100
Ethylbenzene	U		0.000300	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000425	0.00100
p-Isopropyltoluene	U		0.000204	0.00100

Method Blank (MB)

(MB) R3576810-5 10/01/20 13:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00498	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000223	0.00100
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
Tetrachloroethene	U		0.000325	0.00100
Toluene	U		0.00123	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
1,2,3-Trichloropropane	U		0.000244	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000226	0.00100
Xylenes, Total	U		0.000500	0.00300
tert-Amyl Methyl Ether	U		0.000400	0.00100
Ethyl tert-butyl ether	U		0.000250	0.00100
tert-Butyl alcohol	U		0.00250	0.00500
Ethanol	U		0.0490	0.100
(S) Toluene-d8	*98.8*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.8*			*70.0-130*

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

(LCS) R3576810-1 10/01/20 12:05 • (LCSD) R3576810-2 10/01/20 12:26

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 %
Acrylonitrile	0.125	0.143	0.144	114	115	45.0-153			0.697	22
Benzene	0.0250	0.0270	0.0265	108	106	70.0-123			1.87	20

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

(LCS) R3576810-1 10/01/20 12:05 • (LCSD) R3576810-2 10/01/20 12:26

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 %
Bromobenzene	0.0250	0.0234	0.0230	93.6	92.0	73.0-121			1.72	20
Bromodichloromethane	0.0250	0.0275	0.0269	110	108	73.0-121			2.21	20
Bromoform	0.0250	0.0292	0.0289	117	116	64.0-132			1.03	20
Bromomethane	0.0250	0.0297	0.0286	119	114	56.0-147			3.77	20
n-Butylbenzene	0.0250	0.0247	0.0243	98.8	97.2	68.0-135			1.63	20
sec-Butylbenzene	0.0250	0.0249	0.0245	99.6	98.0	74.0-130			1.62	20
tert-Butylbenzene	0.0250	0.0245	0.0240	98.0	96.0	75.0-127			2.06	20
Carbon tetrachloride	0.0250	0.0285	0.0282	114	113	66.0-128			1.06	20
Chlorobenzene	0.0250	0.0265	0.0260	106	104	76.0-128			1.90	20
Chlorodibromomethane	0.0250	0.0274	0.0268	110	107	74.0-127			2.21	20
Chloroethane	0.0250	0.0304	0.0291	122	116	61.0-134			4.37	20
Chloroform	0.0250	0.0272	0.0267	109	107	72.0-123			1.86	20
Chloromethane	0.0250	0.0276	0.0258	110	103	51.0-138			6.74	20
2-Chlorotoluene	0.0250	0.0245	0.0242	98.0	96.8	75.0-124			1.23	20
4-Chlorotoluene	0.0250	0.0243	0.0240	97.2	96.0	75.0-124			1.24	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0262	0.0266	105	106	59.0-130			1.52	20
1,2-Dibromoethane	0.0250	0.0276	0.0272	110	109	74.0-128			1.46	20
Dibromomethane	0.0250	0.0275	0.0270	110	108	75.0-122			1.83	20
1,2-Dichlorobenzene	0.0250	0.0258	0.0253	103	101	76.0-124			1.96	20
1,3-Dichlorobenzene	0.0250	0.0257	0.0253	103	101	76.0-125			1.57	20
1,4-Dichlorobenzene	0.0250	0.0262	0.0260	105	104	77.0-121			0.766	20
Dichlorodifluoromethane	0.0250	0.0226	0.0222	90.4	88.8	43.0-156			1.79	20
1,1-Dichloroethane	0.0250	0.0264	0.0259	106	104	70.0-127			1.91	20
1,2-Dichloroethane	0.0250	0.0271	0.0268	108	107	65.0-131			1.11	20
1,1-Dichloroethene	0.0250	0.0278	0.0274	111	110	65.0-131			1.45	20
cis-1,2-Dichloroethene	0.0250	0.0281	0.0277	112	111	73.0-125			1.43	20
trans-1,2-Dichloroethene	0.0250	0.0279	0.0273	112	109	71.0-125			2.17	20
1,2-Dichloropropane	0.0250	0.0260	0.0257	104	103	74.0-125			1.16	20
1,1-Dichloropropene	0.0250	0.0276	0.0269	110	108	73.0-125			2.57	20
1,3-Dichloropropane	0.0250	0.0264	0.0260	106	104	80.0-125			1.53	20
cis-1,3-Dichloropropene	0.0250	0.0270	0.0267	108	107	76.0-127			1.12	20
trans-1,3-Dichloropropene	0.0250	0.0272	0.0268	109	107	73.0-127			1.48	20
2,2-Dichloropropane	0.0250	0.0260	0.0253	104	101	59.0-135			2.73	20
Di-isopropyl ether	0.0250	0.0267	0.0261	107	104	60.0-136			2.27	20
Ethylbenzene	0.0250	0.0270	0.0262	108	105	74.0-126			3.01	20
Hexachloro-1,3-butadiene	0.0250	0.0248	0.0243	99.2	97.2	57.0-150			2.04	20
Isopropylbenzene	0.0250	0.0270	0.0264	108	106	72.0-127			2.25	20
p-Isopropyltoluene	0.0250	0.0253	0.0251	101	100	72.0-133			0.794	20
2-Butanone (MEK)	0.125	0.151	0.150	121	120	30.0-160			0.664	24
Methylene Chloride	0.0250	0.0269	0.0263	108	105	68.0-123			2.26	20

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

(LCS) R3576810-1 10/01/20 12:05 • (LCSD) R3576810-2 10/01/20 12:26

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 %
4-Methyl-2-pentanone (MIBK)	0.125	0.138	0.139	110	111	56.0-143			0.722	20
Methyl tert-butyl ether	0.0250	0.0286	0.0280	114	112	66.0-132			2.12	20
Naphthalene	0.0250	0.0253	0.0263	101	105	59.0-130			3.88	20
n-Propylbenzene	0.0250	0.0242	0.0237	96.8	94.8	74.0-126			2.09	20
Styrene	0.0250	0.0271	0.0265	108	106	72.0-127			2.24	20
1,1,1,2-Tetrachloroethane	0.0250	0.0257	0.0252	103	101	74.0-129			1.96	20
1,1,2,2-Tetrachloroethane	0.0250	0.0248	0.0248	99.2	99.2	68.0-128			0.000	20
Tetrachloroethene	0.0250	0.0280	0.0271	112	108	70.0-136			3.27	20
Toluene	0.0250	0.0257	0.0252	103	101	75.0-121			1.96	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0282	0.0274	113	110	61.0-139			2.88	20
1,2,3-Trichlorobenzene	0.0250	0.0245	0.0245	98.0	98.0	59.0-139			0.000	20
1,2,4-Trichlorobenzene	0.0250	0.0248	0.0250	99.2	100	62.0-137			0.803	20
1,1,1-Trichloroethane	0.0250	0.0276	0.0271	110	108	69.0-126			1.83	20
1,1,2-Trichloroethane	0.0250	0.0268	0.0262	107	105	78.0-123			2.26	20
Trichloroethene	0.0250	0.0289	0.0280	116	112	76.0-126			3.16	20
Trichlorofluoromethane	0.0250	0.0284	0.0279	114	112	61.0-142			1.78	20
1,2,3-Trichloropropane	0.0250	0.0266	0.0260	106	104	67.0-129			2.28	20
1,2,3-Trimethylbenzene	0.0250	0.0247	0.0244	98.8	97.6	74.0-124			1.22	20
1,2,4-Trimethylbenzene	0.0250	0.0246	0.0243	98.4	97.2	70.0-126			1.23	20
1,3,5-Trimethylbenzene	0.0250	0.0247	0.0243	98.8	97.2	73.0-127			1.63	20
tert-Amyl Methyl Ether	0.0250	0.0291	0.0287	116	115	66.0-135			1.38	20
Ethyl tert-butyl ether	0.0250	0.0279	0.0276	112	110	68.0-140			1.08	20
Vinyl chloride	0.0250	0.0252	0.0247	101	98.8	63.0-134			2.00	20
Xylenes, Total	0.0750	0.0817	0.0796	109	106	72.0-127			2.60	20
ethanol	1.00	1.21	1.09	121	109	10.0-160			10.4	33
tert-Butyl alcohol	0.125	0.135	0.131	108	105	15.0-160			3.01	33
(S) Toluene-d8				*95.3*	*95.4*	*75.0-131*				
(S) 4-Bromofluorobenzene				*103*	*102*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*109*	*100*	*70.0-130*				

Method Blank (MB)

(MB) R3576908-4 10/01/20 13:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Acrylonitrile	U		0.00202	0.0100
Benzene	U		0.000375	0.00100
Bromobenzene	U		0.000275	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
2-Chlorotoluene	U		0.000225	0.00100
4-Chlorotoluene	U		0.000691	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dibromomethane	U		0.000350	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
1,1-Dichloropropene	U		0.000375	0.00100
1,3-Dichloropropane	U		0.000225	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
2,2-Dichloropropane	U		0.000375	0.00100
Di-isopropyl ether	U		0.000221	0.00100
Ethylbenzene	U		0.000300	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000425	0.00100

Method Blank (MB)

(MB) R3576908-4 10/01/20 13:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00498	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000223	0.00100
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
Tetrachloroethene	U		0.000325	0.00100
Toluene	U		0.00123	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
1,2,3-Trichloropropane	U		0.000244	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000226	0.00100
Xylenes, Total	0.000627	J	0.000500	0.00300
tert-Amyl Methyl Ether	U		0.000400	0.00100
Ethyl tert-butyl ether	U		0.000250	0.00100
tert-Butyl alcohol	U		0.00250	0.00500
Ethanol	U		0.0490	0.100
(S) Toluene-d8	*108*			*75.0-131*
(S) 4-Bromofluorobenzene	*101*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*95.9*			*70.0-130*

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

(LCS) R3576908-1 10/01/20 11:44 • (LCSD) R3576908-2 10/01/20 12:06

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	0.125	0.128	0.140	102	112	10.0-160			8.96	31
Acrylonitrile	0.125	0.123	0.131	98.4	105	45.0-153			6.30	22
Benzene	0.0250	0.0257	0.0255	103	102	70.0-123			0.781	20
Bromobenzene	0.0250	0.0250	0.0251	100	100	73.0-121			0.399	20
Bromodichloromethane	0.0250	0.0255	0.0256	102	102	73.0-121			0.391	20
Bromoform	0.0250	0.0268	0.0275	107	110	64.0-132			2.58	20
Bromomethane	0.0250	0.0305	0.0300	122	120	56.0-147			1.65	20
n-Butylbenzene	0.0250	0.0276	0.0273	110	109	68.0-135			1.09	20
sec-Butylbenzene	0.0250	0.0268	0.0262	107	105	74.0-130			2.26	20
tert-Butylbenzene	0.0250	0.0268	0.0259	107	104	75.0-127			3.42	20
Carbon tetrachloride	0.0250	0.0281	0.0276	112	110	66.0-128			1.80	20
Chlorobenzene	0.0250	0.0279	0.0277	112	111	76.0-128			0.719	20
Chlorodibromomethane	0.0250	0.0266	0.0266	106	106	74.0-127			0.000	20
Chloroethane	0.0250	0.0238	0.0239	95.2	95.6	61.0-134			0.419	20
Chloroform	0.0250	0.0262	0.0261	105	104	72.0-123			0.382	20
Chloromethane	0.0250	0.0257	0.0255	103	102	51.0-138			0.781	20
2-Chlorotoluene	0.0250	0.0267	0.0262	107	105	75.0-124			1.89	20
4-Chlorotoluene	0.0250	0.0267	0.0264	107	106	75.0-124			1.13	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0240	0.0256	96.0	102	59.0-130			6.45	20
1,2-Dibromoethane	0.0250	0.0264	0.0268	106	107	74.0-128			1.50	20
Dibromomethane	0.0250	0.0252	0.0260	101	104	75.0-122			3.13	20
1,2-Dichlorobenzene	0.0250	0.0260	0.0263	104	105	76.0-124			1.15	20
1,3-Dichlorobenzene	0.0250	0.0276	0.0272	110	109	76.0-125			1.46	20
1,4-Dichlorobenzene	0.0250	0.0271	0.0274	108	110	77.0-121			1.10	20
Dichlorodifluoromethane	0.0250	0.0265	0.0262	106	105	43.0-156			1.14	20
1,1-Dichloroethane	0.0250	0.0266	0.0261	106	104	70.0-127			1.90	20
1,2-Dichloroethane	0.0250	0.0254	0.0258	102	103	65.0-131			1.56	20
1,1-Dichloroethene	0.0250	0.0260	0.0258	104	103	65.0-131			0.772	20
cis-1,2-Dichloroethene	0.0250	0.0263	0.0262	105	105	73.0-125			0.381	20
trans-1,2-Dichloroethene	0.0250	0.0277	0.0272	111	109	71.0-125			1.82	20
1,2-Dichloropropane	0.0250	0.0260	0.0257	104	103	74.0-125			1.16	20
1,1-Dichloropropene	0.0250	0.0274	0.0270	110	108	73.0-125			1.47	20
1,3-Dichloropropane	0.0250	0.0263	0.0267	105	107	80.0-125			1.51	20
cis-1,3-Dichloropropene	0.0250	0.0266	0.0265	106	106	76.0-127			0.377	20
trans-1,3-Dichloropropene	0.0250	0.0276	0.0277	110	111	73.0-127			0.362	20
2,2-Dichloropropane	0.0250	0.0261	0.0262	104	105	59.0-135			0.382	20
Di-isopropyl ether	0.0250	0.0250	0.0251	100	100	60.0-136			0.399	20
Ethylbenzene	0.0250	0.0267	0.0261	107	104	74.0-126			2.27	20
Hexachloro-1,3-butadiene	0.0250	0.0262	0.0260	105	104	57.0-150			0.766	20
Isopropylbenzene	0.0250	0.0282	0.0278	113	111	72.0-127			1.43	20

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

(LCS) R3576908-1 10/01/20 11:44 • (LCSD) R3576908-2 10/01/20 12:06

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	0.0250	0.0279	0.0274	112	110	72.0-133			1.81	20
2-Butanone (MEK)	0.125	0.117	0.127	93.6	102	30.0-160			8.20	24
Methylene Chloride	0.0250	0.0260	0.0259	104	104	68.0-123			0.385	20
4-Methyl-2-pentanone (MIBK)	0.125	0.120	0.127	96.0	102	56.0-143			5.67	20
Methyl tert-butyl ether	0.0250	0.0243	0.0250	97.2	100	66.0-132			2.84	20
Naphthalene	0.0250	0.0240	0.0264	96.0	106	59.0-130			9.52	20
n-Propylbenzene	0.0250	0.0267	0.0263	107	105	74.0-126			1.51	20
Styrene	0.0250	0.0282	0.0279	113	112	72.0-127			1.07	20
1,1,1,2-Tetrachloroethane	0.0250	0.0276	0.0274	110	110	74.0-129			0.727	20
1,1,2,2-Tetrachloroethane	0.0250	0.0242	0.0252	96.8	101	68.0-128			4.05	20
Tetrachloroethene	0.0250	0.0284	0.0278	114	111	70.0-136			2.14	20
Toluene	0.0250	0.0267	0.0258	107	103	75.0-121			3.43	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0276	0.0273	110	109	61.0-139			1.09	20
1,2,3-Trichlorobenzene	0.0250	0.0254	0.0271	102	108	59.0-139			6.48	20
1,2,4-Trichlorobenzene	0.0250	0.0266	0.0277	106	111	62.0-137			4.05	20
1,1,1-Trichloroethane	0.0250	0.0266	0.0265	106	106	69.0-126			0.377	20
1,1,2-Trichloroethane	0.0250	0.0258	0.0261	103	104	78.0-123			1.16	20
Trichloroethene	0.0250	0.0276	0.0276	110	110	76.0-126			0.000	20
Trichlorofluoromethane	0.0250	0.0253	0.0259	101	104	61.0-142			2.34	20
1,2,3-Trichloropropane	0.0250	0.0258	0.0266	103	106	67.0-129			3.05	20
1,2,3-Trimethylbenzene	0.0250	0.0264	0.0264	106	106	74.0-124			0.000	20
1,2,4-Trimethylbenzene	0.0250	0.0255	0.0251	102	100	70.0-126			1.58	20
1,3,5-Trimethylbenzene	0.0250	0.0270	0.0266	108	106	73.0-127			1.49	20
Vinyl chloride	0.0250	0.0261	0.0254	104	102	63.0-134			2.72	20
Xylenes, Total	0.0750	0.0805	0.0788	107	105	72.0-127			2.13	20
ethanol	1.00	0.854	1.39	85.4	139	10.0-160		J3	47.8	33
tert-Butyl alcohol	0.125	0.131	0.163	105	130	15.0-160			21.8	33
(S) Toluene-d8				*105*	*103*	*75.0-131*				
(S) 4-Bromofluorobenzene				*106*	*104*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*106*	*105*	*70.0-130*				

Method Blank (MB)

(MB) R3577396-4 10/02/20 14:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Acrylonitrile	U		0.00202	0.0100
Benzene	U		0.000375	0.00100
Bromobenzene	U		0.000275	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
2-Chlorotoluene	U		0.000225	0.00100
4-Chlorotoluene	U		0.000691	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dibromomethane	U		0.000350	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
1,1-Dichloropropene	U		0.000375	0.00100
1,3-Dichloropropane	U		0.000225	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
2,2-Dichloropropane	U		0.000375	0.00100
Di-isopropyl ether	U		0.000221	0.00100
Ethylbenzene	U		0.000300	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000425	0.00100

Method Blank (MB)

(MB) R3577396-4 10/02/20 14:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00498	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000223	0.00100
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
Tetrachloroethene	U		0.000325	0.00100
Toluene	U		0.00123	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
1,2,3-Trichloropropane	U		0.000244	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000226	0.00100
Xylenes, Total	U		0.000500	0.00300
tert-Amyl Methyl Ether	U		0.000400	0.00100
Ethyl tert-butyl ether	U		0.000250	0.00100
tert-Butyl alcohol	U		0.00250	0.00500
Ethanol	U		0.0490	0.100
(S) Toluene-d8	*108*			*75.0-131*
(S) 4-Bromofluorobenzene	*100*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*90.6*			*70.0-130*

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

(LCS) R3577396-1 10/02/20 12:53 • (LCSD) R3577396-2 10/02/20 13:15

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	0.125	0.137	0.127	110	102	10.0-160			7.58	31
Acrylonitrile	0.125	0.125	0.116	100	92.8	45.0-153			7.47	22
Benzene	0.0250	0.0234	0.0235	93.6	94.0	70.0-123			0.426	20
Bromobenzene	0.0250	0.0232	0.0235	92.8	94.0	73.0-121			1.28	20
Bromodichloromethane	0.0250	0.0240	0.0247	96.0	98.8	73.0-121			2.87	20
Bromoform	0.0250	0.0259	0.0261	104	104	64.0-132			0.769	20
Bromomethane	0.0250	0.0279	0.0278	112	111	56.0-147			0.359	20
n-Butylbenzene	0.0250	0.0249	0.0258	99.6	103	68.0-135			3.55	20
sec-Butylbenzene	0.0250	0.0249	0.0254	99.6	102	74.0-130			1.99	20
tert-Butylbenzene	0.0250	0.0249	0.0253	99.6	101	75.0-127			1.59	20
Carbon tetrachloride	0.0250	0.0259	0.0260	104	104	66.0-128			0.385	20
Chlorobenzene	0.0250	0.0260	0.0265	104	106	76.0-128			1.90	20
Chlorodibromomethane	0.0250	0.0254	0.0260	102	104	74.0-127			2.33	20
Chloroethane	0.0250	0.0222	0.0225	88.8	90.0	61.0-134			1.34	20
Chloroform	0.0250	0.0246	0.0249	98.4	99.6	72.0-123			1.21	20
Chloromethane	0.0250	0.0220	0.0214	88.0	85.6	51.0-138			2.76	20
2-Chlorotoluene	0.0250	0.0246	0.0252	98.4	101	75.0-124			2.41	20
4-Chlorotoluene	0.0250	0.0245	0.0252	98.0	101	75.0-124			2.82	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0243	0.0232	97.2	92.8	59.0-130			4.63	20
1,2-Dibromoethane	0.0250	0.0250	0.0253	100	101	74.0-128			1.19	20
Dibromomethane	0.0250	0.0237	0.0237	94.8	94.8	75.0-122			0.000	20
1,2-Dichlorobenzene	0.0250	0.0249	0.0251	99.6	100	76.0-124			0.800	20
1,3-Dichlorobenzene	0.0250	0.0252	0.0258	101	103	76.0-125			2.35	20
1,4-Dichlorobenzene	0.0250	0.0252	0.0257	101	103	77.0-121			1.96	20
Dichlorodifluoromethane	0.0250	0.0231	0.0230	92.4	92.0	43.0-156			0.434	20
1,1-Dichloroethane	0.0250	0.0242	0.0247	96.8	98.8	70.0-127			2.04	20
1,2-Dichloroethane	0.0250	0.0239	0.0239	95.6	95.6	65.0-131			0.000	20
1,1-Dichloroethene	0.0250	0.0228	0.0226	91.2	90.4	65.0-131			0.881	20
cis-1,2-Dichloroethene	0.0250	0.0245	0.0244	98.0	97.6	73.0-125			0.409	20
trans-1,2-Dichloroethene	0.0250	0.0236	0.0242	94.4	96.8	71.0-125			2.51	20
1,2-Dichloropropane	0.0250	0.0245	0.0246	98.0	98.4	74.0-125			0.407	20
1,1-Dichloropropene	0.0250	0.0240	0.0243	96.0	97.2	73.0-125			1.24	20
1,3-Dichloropropane	0.0250	0.0250	0.0256	100	102	80.0-125			2.37	20
cis-1,3-Dichloropropene	0.0250	0.0249	0.0249	99.6	99.6	76.0-127			0.000	20
trans-1,3-Dichloropropene	0.0250	0.0256	0.0262	102	105	73.0-127			2.32	20
2,2-Dichloropropane	0.0250	0.0234	0.0264	93.6	106	59.0-135			12.0	20
Di-isopropyl ether	0.0250	0.0238	0.0236	95.2	94.4	60.0-136			0.844	20
Ethylbenzene	0.0250	0.0238	0.0246	95.2	98.4	74.0-126			3.31	20
Hexachloro-1,3-butadiene	0.0250	0.0241	0.0245	96.4	98.0	57.0-150			1.65	20
Isopropylbenzene	0.0250	0.0262	0.0269	105	108	72.0-127			2.64	20

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

(LCS) R3577396-1 10/02/20 12:53 • (LCSD) R3577396-2 10/02/20 13:15

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	0.0250	0.0254	0.0262	102	105	72.0-133			3.10	20
2-Butanone (MEK)	0.125	0.119	0.110	95.2	88.0	30.0-160			7.86	24
Methylene Chloride	0.0250	0.0239	0.0241	95.6	96.4	68.0-123			0.833	20
4-Methyl-2-pentanone (MIBK)	0.125	0.119	0.114	95.2	91.2	56.0-143			4.29	20
Methyl tert-butyl ether	0.0250	0.0235	0.0232	94.0	92.8	66.0-132			1.28	20
Naphthalene	0.0250	0.0241	0.0240	96.4	96.0	59.0-130			0.416	20
n-Propylbenzene	0.0250	0.0244	0.0249	97.6	99.6	74.0-126			2.03	20
Styrene	0.0250	0.0262	0.0272	105	109	72.0-127			3.75	20
1,1,1,2-Tetrachloroethane	0.0250	0.0260	0.0269	104	108	74.0-129			3.40	20
1,1,2,2-Tetrachloroethane	0.0250	0.0235	0.0232	94.0	92.8	68.0-128			1.28	20
Tetrachloroethene	0.0250	0.0250	0.0259	100	104	70.0-136			3.54	20
Toluene	0.0250	0.0236	0.0241	94.4	96.4	75.0-121			2.10	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0257	0.0246	103	98.4	61.0-139			4.37	20
1,2,3-Trichlorobenzene	0.0250	0.0242	0.0253	96.8	101	59.0-139			4.44	20
1,2,4-Trichlorobenzene	0.0250	0.0249	0.0257	99.6	103	62.0-137			3.16	20
1,1,1-Trichloroethane	0.0250	0.0249	0.0250	99.6	100	69.0-126			0.401	20
1,1,2-Trichloroethane	0.0250	0.0246	0.0250	98.4	100	78.0-123			1.61	20
Trichloroethene	0.0250	0.0254	0.0259	102	104	76.0-126			1.95	20
Trichlorofluoromethane	0.0250	0.0238	0.0228	95.2	91.2	61.0-142			4.29	20
1,2,3-Trichloropropane	0.0250	0.0259	0.0247	104	98.8	67.0-129			4.74	20
1,2,3-Trimethylbenzene	0.0250	0.0245	0.0252	98.0	101	74.0-124			2.82	20
1,2,4-Trimethylbenzene	0.0250	0.0234	0.0240	93.6	96.0	70.0-126			2.53	20
1,3,5-Trimethylbenzene	0.0250	0.0250	0.0254	100	102	73.0-127			1.59	20
tert-Amyl Methyl Ether	0.0250	0.0246	0.0242	98.4	96.8	66.0-135			1.64	20
Ethyl tert-butyl ether	0.0250	0.0247	0.0247	98.8	98.8	68.0-140			0.000	20
Vinyl chloride	0.0250	0.0227	0.0226	90.8	90.4	63.0-134			0.442	20
Xylenes, Total	0.0750	0.0729	0.0747	97.2	99.6	72.0-127			2.44	20
ethanol	1.00	1.28	1.17	128	117	10.0-160			8.98	33
tert-Butyl alcohol	0.125	0.159	0.142	127	114	15.0-160			11.3	33
(S) Toluene-d8				*105*	*105*	*75.0-131*				
(S) 4-Bromofluorobenzene				*103*	*104*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*103*	*101*	*70.0-130*				

Method Blank (MB)

(MB) R3574543-1 09/25/20 04:29

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	*89.0*			*52.0-156*

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

(LCS) R3574543-2 09/25/20 04:54 • (LCSD) R3574543-3 09/25/20 05:20

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 %
Diesel Range Organics (DRO)	1500	1530	1550	102	103	50.0-150			1.30	20
(S) o-Terphenyl				*91.0*	*92.5*	*52.0-156*				

Method Blank (MB)

(MB) R3576409-1 09/30/20 19:47

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
(S) o-Terphenyl	*98.9*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3576409-2 09/30/20 20:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	49.2	98.4	50.0-150	
(S) o-Terphenyl			*121*	*18.0-148*	

Method Blank (MB)

(MB) R3576410-1 09/30/20 20:13

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
(S) o-Terphenyl	*78.7*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3576410-2 09/30/20 20:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	35.5	71.0	50.0-150	
(S) o-Terphenyl			*89.0*	*18.0-148*	

L1265434-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265434-05 09/30/20 23:18 • (MS) R3576410-3 09/30/20 23:31 • (MSD) R3576410-4 09/30/20 23:44

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)	51.1	2.62	38.2	39.8	69.7	72.7	1	50.0-150			3.93	20
(S) o-Terphenyl					*76.9*	*84.5*		*18.0-148*				

Method Blank (MB)

(MB) R3576589-3 09/30/20 20:31

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		0.0170	0.0500
Benzo(a)anthracene	U		0.0200	0.0500
Benzo(a)pyrene	U		0.0180	0.0500
Benzo(b)fluoranthene	U		0.0170	0.0500
Benzo(g,h,i)perylene	U		0.0180	0.0500
Benzo(k)fluoranthene	U		0.0200	0.250
Chrysene	U		0.0180	0.0500
Dibenz(a,h)anthracene	U		0.0180	0.0500
Fluoranthene	U		0.0110	0.0500
Fluorene	U		0.0170	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0180	0.0500
Naphthalene	U		0.128	0.500
Phenanthrene	U		0.0180	0.0500
Pyrene	U		0.0170	0.0500
1-Methylnaphthalene	U		0.0200	0.500
2-Methylnaphthalene	U		0.0280	0.500
2-Chloronaphthalene	U		0.0120	0.500
(S) Nitrobenzene-d5	*97.0*			*11.0-135*
(S) 2-Fluorobiphenyl	*102*			*32.0-120*
(S) p-Terphenyl-d14	*113*			*23.0-122*

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

(LCS) R3576589-2 09/30/20 20:08 • (LCSD) R3576589-1 09/30/20 19:46

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	4.15	3.10	207	155	43.0-127	J4	J3 J4	29.0	20
Acenaphthene	2.00	3.55	2.65	178	132	42.0-120	J4	J3 J4	29.0	20
Acenaphthylene	2.00	3.93	2.91	196	146	43.0-120	J4	J3 J4	29.8	20
Benzo(a)anthracene	2.00	4.12	3.08	206	154	46.0-120	J4	J3 J4	28.9	20
Benzo(a)pyrene	2.00	3.65	2.75	183	138	44.0-122	J4	J3 J4	28.1	20
Benzo(b)fluoranthene	2.00	3.56	2.80	178	140	43.0-122	J4	J3 J4	23.9	20
Benzo(g,h,i)perylene	2.00	3.21	2.59	160	129	25.0-137	J4		21.4	23
Benzo(k)fluoranthene	2.00	3.75	2.72	187	136	39.0-128	J4	J3 J4	31.8	22
Chrysene	2.00	3.68	2.77	184	138	42.0-129	J4	J3 J4	28.2	20
Dibenz(a,h)anthracene	2.00	2.99	2.45	149	122	25.0-139	J4		19.9	22
Fluoranthene	2.00	3.66	2.73	183	137	48.0-131	J4	J3 J4	29.1	20

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

(LCS) R3576589-2 09/30/20 20:08 • (LCSD) R3576589-1 09/30/20 19:46

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 %
Fluorene	2.00	3.81	2.84	190	142	42.0-120	J4	J3 J4	29.2	20
Indeno(1,2,3-cd)pyrene	2.00	3.39	2.61	169	131	37.0-133	J4	J3	26.0	20
Naphthalene	2.00	3.17	2.39	158	119	30.0-120	J4	J3	28.1	22
Phenanthrene	2.00	3.60	2.70	180	135	42.0-120	J4	J3 J4	28.6	20
Pyrene	2.00	3.74	2.76	187	138	38.0-124	J4	J3 J4	30.2	20
1-Methylnaphthalene	2.00	3.37	2.53	169	126	43.0-120	J4	J3 J4	28.5	20
2-Methylnaphthalene	2.00	3.18	2.41	159	120	40.0-120	J4	J3	27.5	20
2-Chloronaphthalene	2.00	3.51	2.60	175	130	39.0-120	J4	J3 J4	29.8	20
(S) Nitrobenzene-d5				*153*	*115*	*11.0-135*	J1			
(S) 2-Fluorobiphenyl				*159*	*119*	*32.0-120*	J1			
(S) p-Terphenyl-d14				*169*	*126*	*23.0-122*	J1	J1		

Sample Narrative:

LCS: QC high bias, reporting BDL results only. Data not impacted

LCSD: QC high bias, reporting BDL results only. Data not impacted

Method Blank (MB)

(MB) R3577163-2 10/01/20 16:12

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	*73.9*			*14.0-149*
(S) 2-Fluorobiphenyl	*84.5*			*34.0-125*
(S) p-Terphenyl-d14	*96.3*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3577163-1 10/01/20 15:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0628	78.5	50.0-126	
Acenaphthene	0.0800	0.0631	78.9	50.0-120	
Acenaphthylene	0.0800	0.0655	81.9	50.0-120	
Benzo(a)anthracene	0.0800	0.0601	75.1	45.0-120	
Benzo(a)pyrene	0.0800	0.0569	71.1	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0613	76.6	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0600	75.0	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0685	85.6	49.0-125	
Chrysene	0.0800	0.0657	82.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0627	78.4	47.0-125	
Fluoranthene	0.0800	0.0620	77.5	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3577163-1 10/01/20 15:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0642	80.3	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0644	80.5	46.0-125	
Naphthalene	0.0800	0.0606	75.8	50.0-120	
Phenanthrene	0.0800	0.0643	80.4	47.0-120	
Pyrene	0.0800	0.0679	84.9	43.0-123	
1-Methylnaphthalene	0.0800	0.0624	78.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0599	74.9	50.0-120	
2-Chloronaphthalene	0.0800	0.0590	73.8	50.0-120	
(S) Nitrobenzene-d5			*77.8*	*14.0-149*	
(S) 2-Fluorobiphenyl			*83.1*	*34.0-125*	
(S) p-Terphenyl-d14			*88.5*	*23.0-120*	

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

(OS) • (MS) R3577163-3 10/01/20 21:11 • (MSD) R3577163-4 10/01/20 21:34

Analyte	Spike Amount mg/kg	Original Result	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.115		0.0521	0.0444	30.3	20.5	1	10.0-145			16.0	30
Acenaphthene	0.115		0.0484	0.0427	47.3	39.9	1	14.0-127			12.5	27
Acenaphthylene	0.115		0.0485	0.0433	61.5	54.7	1	21.0-124			11.3	25
Benzo(a)anthracene	0.115		0.0722	0.0556	0.000	0.000	1	10.0-139	J6	J6	26.0	30
Benzo(a)pyrene	0.115		0.0749	0.0570	0.000	0.000	1	10.0-141	J6	J6	27.1	31
Benzo(b)fluoranthene	0.115		0.0761	0.0558	0.000	0.000	1	10.0-140	J6	J6	30.8	36
Benzo(g,h,i)perylene	0.115		0.0640	0.0515	0.000	0.000	1	10.0-140	J6	J6	21.6	33
Benzo(k)fluoranthene	0.115		0.0638	0.0521	0.000	0.000	1	10.0-137	J6	J6	20.2	31
Chrysene	0.115		0.0746	0.0587	0.000	0.000	1	10.0-145	J6	J6	23.9	30
Dibenz(a,h)anthracene	0.115		0.0499	0.0452	28.7	22.6	1	10.0-132			9.88	31
Fluoranthene	0.115		0.0647	0.0604	0.000	0.000	1	10.0-153	J6	J6	6.87	33
Fluorene	0.115		0.0480	0.0428	51.8	45.0	1	11.0-130			11.5	29
Indeno(1,2,3-cd)pyrene	0.115		0.0637	0.0525	0.000	0.000	1	10.0-137	J6	J6	19.3	32
Naphthalene	0.115		0.0486	0.0406	48.4	38.0	1	10.0-135			17.9	27
Phenanthrene	0.115		0.0707	0.0650	0.000	0.000	1	10.0-144	J6	J6	8.40	31
Pyrene	0.115		0.120	0.116	0.000	0.000	1	10.0-148	J6	J6	3.39	35
1-Methylnaphthalene	0.115		0.0484	0.0406	50.9	40.8	1	10.0-142			17.5	28
2-Methylnaphthalene	0.115		0.0476	0.0392	47.6	36.7	1	10.0-137			19.4	28
2-Chloronaphthalene	0.115		0.0444	0.0383	56.3	48.4	1	29.0-120			14.8	24
(S) Nitrobenzene-d5					*56.5*	*56.5*		*14.0-149*				
(S) 2-Fluorobiphenyl					*61.6*	*56.3*		*34.0-125*				
(S) p-Terphenyl-d14					*66.9*	*81.2*		*23.0-120*				

Method Blank (MB)

(MB) R3577198-2 10/01/20 10:33

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	*64.1*			*14.0-149*
(S) 2-Fluorobiphenyl	*82.9*			*34.0-125*
(S) p-Terphenyl-d14	*80.8*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3577198-1 10/01/20 10:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0559	69.9	50.0-126	
Acenaphthene	0.0800	0.0527	65.9	50.0-120	
Acenaphthylene	0.0800	0.0558	69.8	50.0-120	
Benzo(a)anthracene	0.0800	0.0664	83.0	45.0-120	
Benzo(a)pyrene	0.0800	0.0553	69.1	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0633	79.1	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0546	68.3	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0621	77.6	49.0-125	
Chrysene	0.0800	0.0593	74.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0556	69.5	47.0-125	
Fluoranthene	0.0800	0.0692	86.5	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3577198-1 10/01/20 10:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0564	70.5	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0563	70.4	46.0-125	
Naphthalene	0.0800	0.0539	67.4	50.0-120	
Phenanthrene	0.0800	0.0570	71.3	47.0-120	
Pyrene	0.0800	0.0575	71.9	43.0-123	
1-Methylnaphthalene	0.0800	0.0574	71.8	51.0-121	
2-Methylnaphthalene	0.0800	0.0547	68.4	50.0-120	
2-Chloronaphthalene	0.0800	0.0538	67.3	50.0-120	
(S) Nitrobenzene-d5			*66.9*	*14.0-149*	
(S) 2-Fluorobiphenyl			*79.5*	*34.0-125*	
(S) p-Terphenyl-d14			*78.4*	*23.0-120*	

L1265434-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265434-05 10/01/20 13:42 • (MS) R3577198-3 10/01/20 14:02 • (MSD) R3577198-4 10/01/20 14:23

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	0.0802	U	0.0542	0.0542	67.6	67.6	1	10.0-145			0.000	30
Acenaphthene	0.0802	U	0.0532	0.0529	66.3	65.9	1	14.0-127			0.579	27
Acenaphthylene	0.0802	U	0.0569	0.0566	70.9	70.7	1	21.0-124			0.360	25
Benzo(a)anthracene	0.0802	0.00380	0.0683	0.0687	80.5	81.0	1	10.0-139			0.597	30
Benzo(a)pyrene	0.0802	0.00460	0.0608	0.0604	70.2	69.6	1	10.0-141			0.675	31
Benzo(b)fluoranthene	0.0802	0.00733	0.0629	0.0635	69.3	70.1	1	10.0-140			0.971	36
Benzo(g,h,i)perylene	0.0802	0.00527	0.0608	0.0604	69.3	68.8	1	10.0-140			0.675	33
Benzo(k)fluoranthene	0.0802	U	0.0633	0.0605	79.0	75.5	1	10.0-137			4.46	31
Chrysene	0.0802	0.00366	0.0622	0.0620	73.0	72.7	1	10.0-145			0.329	30
Dibenz(a,h)anthracene	0.0802	U	0.0594	0.0588	74.1	73.3	1	10.0-132			1.04	31
Fluoranthene	0.0802	0.00729	0.0729	0.0727	81.8	81.6	1	10.0-153			0.281	33
Fluorene	0.0802	U	0.0574	0.0566	71.6	70.7	1	11.0-130			1.26	29
Indeno(1,2,3-cd)pyrene	0.0802	0.00384	0.0606	0.0601	70.8	70.2	1	10.0-137			0.847	32
Naphthalene	0.0802	U	0.0539	0.0539	67.2	67.2	1	10.0-135			0.000	27
Phenanthrene	0.0802	0.00330	0.0584	0.0586	68.7	69.0	1	10.0-144			0.350	31
Pyrene	0.0802	0.00688	0.0655	0.0675	73.2	75.6	1	10.0-148			2.92	35
1-Methylnaphthalene	0.0802	U	0.0578	0.0582	72.1	72.6	1	10.0-142			0.705	28
2-Methylnaphthalene	0.0802	U	0.0548	0.0554	68.4	69.1	1	10.0-137			1.11	28
2-Chloronaphthalene	0.0802	U	0.0542	0.0540	67.6	67.3	1	29.0-120			0.378	24
(S) Nitrobenzene-d5					*66.5*	*64.6*		*14.0-149*				
(S) 2-Fluorobiphenyl					*76.1*	*74.1*		*34.0-125*				
(S) p-Terphenyl-d14					*77.2*	*79.3*		*23.0-120*				

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.
MDL (dry)	Method Detection Limit.
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.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration met method criteria.
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.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.

Qualifier	Description
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
T8	Sample(s) received past/too close to holding time expiration.
V3	The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
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	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

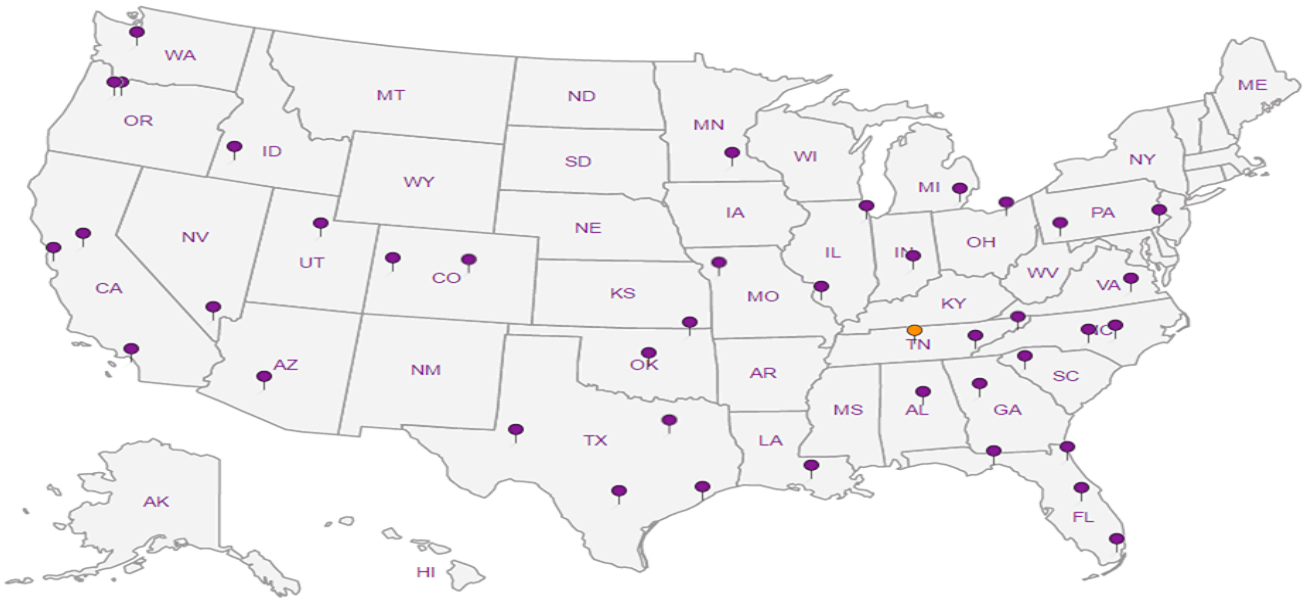
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY L1265434

Company:
Stantec
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Billing Information: Accounts Payable
Cyrus Gorman
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Report To: Sarah Von Raesfeld (sarah.vonraesfeld@stantec.com)
Copy To: Cyrus Gorman (cyrus.gorman@stantec.com)

Project Name: 130 East Sprague Avenue Phase II ESA
Project Address: 130 E. Sprague Avenue, Spokane, WA 99202
Project Number: 185751194

Lab Project: SECORTOR-SPOKANE

Collected By: Aaron Wisher
Signature:

State: WA **City:** Spokane
Time Zone Collected: [x]PT [ ]MT [ ]CT [ ]ET

Immediately Packed on Ice:
[x] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

TAT Required: Standard X
Rush _____

Sample Disposal: [x] Dispose as appropriate
[ ] Hold: _____

* Matrix Codes: Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Air (AR), Vapor (V), Other (OT)

Container Preservative Type **

** 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

Customer Sample ID	Matrix Code*	Sample Type	Sample Collection Date	Sample Collection Time	Res Cl	Number of Containers	VOCs (5035/8260C-Low level)	GRO (NWTPH-Gx)	DRO/RRO (NWTPH-Dx)	PAHs (EPA 8270D SIM)	RCRA 8 Metals (EPA 6020B/7471B)	Percent Solids (SM2540)	
SR-FD01SO	SL	Grab	9/17/20	07:30		5	X	X	X	X	X	X	-01
SR-TB01	OT	Grab	9/17/20	08:00		+4	X						-02
SR-BH05SO 2-2.5	SL	Grab	9/17/20	1605		5	X	X	X	X	X	X	-03
SR-BH02SO 0.5-1.0	SL	Grab	9/17/20	1650		5	X	X	X	X	X	X	-04
SR-BH01SO 1.5-2.0	SL	Grab	9/17/20	1710		10 Saw	X	X	X	X	X	X	-05 MS/MSD only 1 extra Set
SR-BH03SO 0.5-1.0	SL	Grab	9/17/20	1612		5	X	X	X	X	X	X	-06
SR-BH06SO 2-3	SL	Grab	9/17/20	1528		5	X	X	X	X	X	X	-07 ~~matrix spike/matrix spike duplicate~~ CW
SR-BH10SO 3-3.5	SL	Grab	9/17/20	1505		5	X	X	X	X	X	X	-08
SR-BH09SO 2-3	SL	Grab	9/17/20	1520		5	X	X	X	X	X	X	-09
SR-BH10SO 6.5-7	SL	Grab	9/17/20	1510		5	X	X	X	X	X	X	-10
SR-BH07SO 0.5-1.0	SL	Grab	9/17/20	1500		5	X	X	X	X	X	X	-11

Lab Project Manager:

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
USSR 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:

J022

Customer Remarks / Special Conditions / Possible Hazards:
Report data to the MDL.
Provide Level II PDF and EFWEDD format EDD

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 #: 4195 3255 6924

Samples received via:
FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: IR7
Cooler 1 Temp Upon Receipt: 1.1 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 1.0 oC

	Date/Time:		Date/Time:	
Relinquished by/Company: (Signature) STANTEC	9-21-20 1000	Received by/Company: (Signature)	9/21/20	1000/(FT)
Relinquished by/Company: (Signature)		Received by/Company: (Signature)	9/23/20	9:01
Relinquished by/Company: (Signature)		Received by/Company: (Signature)		

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: YES / NO N NA
4 HCl MeOH TSP Other

Non Conformance(s): YES / NO
Pg: ____ of: ____

count = 78

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CHAIN-OF-CUSTODY Analytical Request Document

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ALL SHADED AREAS are for LAB USE ONLY 4265434

Company:
Stantec
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Billing Information: Accounts Payable
Cyrus Gorman
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Report To: Sarah Von Raesfeld (sarah.vonraesfeld@stantec.com)
Copy To: Cyrus Gorman (cyrus.gorman@stantec.com)

Project Name: 130 East Sprague Avenue Phase II ESA
Project Address: 130 E. Sprague Avenue, Spokane, WA 99202
Project Number: 185751194

Lab Project: SECORTOR-SPOKANE

Collected By: Aaron Wisher
Signature:

State: WA **City:** Spokane
Time Zone Collected: [x]PT [ ]MT [ ]CT [ ]ET

Immediately Packed on Ice:
[x] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

TAT Required: Standard X
Rush _____

Sample Disposal: [x] Dispose as appropriate
[ ] Hold: _____

* Matrix Codes: Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Air (AR), Vapor (V), Other (OT)

Container Preservative Type **

** 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

Customer Sample ID	Matrix Code*	Sample Type	Sample Collection Date	Sample Collection Time	Res Cl	Number of Containers	VOCs (8260C)	SVOCs (8270D)	RCRA 8 Metals + Cu, Ni, Zn (6010D/7471B/7470A)
SR-IDWSO	SL	Grab	9/17/20	1720		4 5	X	X	X

Lab Project Manager:

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
USSR 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:

-12

Customer Remarks / Special Conditions / Possible Hazards:
Report data to the MDL.
Provide Level II PDF and EFWEDD format EDD

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#: UM A7
Cooler 1 Temp Upon Receipt: 4.1 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 4.0 oC

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
Stantec	4-21-20 1000	Mitnsn 9/21/20 1000 (FED)		Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum:
				Template:
				Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM:
			9/23/20 9:00	PB:

Trip Blank Received: Y N NA
HCl MeOH TSP Other

Non Conformance(s): YES / NO

Pg: _____
of: _____

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CHAIN-OF-CUSTODY Analytical Request Document

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Company:
Stantec
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Billing Information: Accounts Payable
Cyrus Gorman
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Report To: Sarah Von Raesfeld (sarah.vonraesfeld@stantec.com)
Copy To: Cyrus Gorman (cyrus.gorman@stantec.com)

Project Name: 130 East Sprague Avenue Phase II ESA
Project Address: 130 E. Sprague Avenue, Spokane, WA 99202
Project Number: 185751194

Lab Project: SECORTOR-SPOKANE

Collected By: Aaron Wisher
Signature:

State: WA **City:** Spokane
Time Zone Collected: [x]PT [ ]MT [ ]CT [ ]ET

Immediately Packed on Ice:
[x] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis: dissolved RCRA 8 metals / EPA Methods 6020B/7470A

TAT Required: Standard X
Rush _____

Sample Disposal: [x] Dispose as appropriate
[ ] Hold: _____

* Matrix Codes: Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Air (AR), Vapor (V), Other (OT)

Container Preservative Type **

** 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

Customer Sample ID	Matrix Code	Sample Type	Sample Collection Date	Sample Collection Time	Res Cl	Number of Containers	VOCs (8260C-Low level)	EDB (EPA 8011)	GRO (NWTPH-Gx)	PAHs (EPA 8270D- SIM)	DRO/RRO (NWTPH-Dx)	Total RCRA 8 Metals (EPA 6020B/7470A)
SR-EB01	OT	GRAB	9/17/20	1705		6	X		X	X	X	X

Lab Project Manager:

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
USSR 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:

-13

~~matrix spike/matrix spike duplicate~~ pw

Customer Remarks / Special Conditions / Possible Hazards:
Report data to the MDL.
Provide Level II PDF and EFWEDD format EDD

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#: UNIAT
Cooler 1 Temp Upon Receipt: 6.1 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 6.0 oC

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
STANTEC	9/21/20 1000	M. H (ET) 9/21/20 1000		Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum:
				Template:
				Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM:
		Fedex	9/23/20 900	PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Pg: ____ of: ____

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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ALL SHADED AREAS are for LAB USE ONLY 42654934

Company:
Stantec
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Billing Information: Accounts Payable
Cyrus Gorman
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Report To: Sarah Von Raesfeld (sarah.vonraesfeld@stantec.com)
Copy To: Cyrus Gorman (cyrus.gorman@stantec.com)

Project Name: 130 East Sprague Avenue Phase II ESA
Project Address: 130 E. Sprague Avenue, Spokane, WA 99202
Project Number: 185751194
Lab Project:

Collected By: Aaron Wisher
Signature:

State: WA **City:** Spokane
Time Zone Collected: [x]PT [ ]MT [ ]CT [ ]ET

Immediately Packed on Ice:
[x] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis: dissolved RCRA 8 metals / EPA Methods 6020B/7470A

TAT Required: Standard X
Rush _____

Sample Disposal: [x] Dispose as appropriate
[ ] Hold: _____

* Matrix Codes: Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Air (AR), Vapor (V), Other (OT)

Container Preservative Type **

** 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

Customer Sample ID	Matrix Code*	Sample Type	Sample Collection Date	Sample Collection Time	Res Cl	Number of Containers	VOCs (8260-Low level)	GRO (NWTPH-Gx)	DRO/RRO (NWTPH-Dx)	PAHs (EPA 8270 SIM)	RCRA 8 Metals (6020/7471/7470)	EDB/DCBP (EPA 8011)	Percent Solids (SM2540)	
SR-BH0850 0.5-1.0	SL	GRAB	9-17-20	1545		5	X	X	X	X	X		X	14
SR-BH0450 0.5-1.0	SL	GRAB	9-17-20	1450		5	X	X	X	X	X		X	15

9/17/20

Lab Project Manager:

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
USSR 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:

Customer Remarks / Special Conditions / Possible Hazards:
Report data to the MDL.
Provide Level II PDF and EFWEDD format EDD

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#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: ___oC
Cooler 1 Corrected Temp: oC

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
Stantec	9/21/20 1000	Mike 9/21/20 FED 1000		Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:
		Dennison	9/23/20 9:00	

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO
Pg: ____ of: ____

Pace Analytical®
National Center for Testing & Innovation

Login #: L1265434	Client: STANTECLWA	Date:09/23/20	Evaluated by:Cole Medley

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time		Login Clarification Needed		**If Broken Container:**
	Temperature not in range		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	pH not in range.		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Cour
	Insufficient sample volume.	X	Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: Received additional samples not listed on coc.
Received 2 40mlAmb/MeOH10ml/Syr with sample inside, with no identification of any kind on the vial

Client informed by:		Call		Email		Voice Mail		Date:	Time:
TSR Initials:	Client Contact: Aaron Wisher								

Login Instructions:

Discard those unlabeled samples

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

October 08, 2020

Revised Report

Stantec - Lynnwood, WA

Sample Delivery Group:	L1265434
Samples Received:	09/23/2020
Project Number:	185751194
Description:	Site 02: 130 East Sprague Avenue

Report To:

Cyrus Gorman
4100 194th Street SW
Suite 400
Lynnwood, WA 98036

Entire Report Reviewed By:

Jared Starkey
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.

TABLE OF CONTENTS

SR-IDWSO L1265434-12 Solid

Collected by	Collected date/time	Received date/time
Aaron Wisher	09/17/20 17:20	09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1550922	1	09/29/20 14:21	09/29/20 14:29	KBC	Mt. Juliet, TN
Mercury by Method 7471B	WG1550165	1	09/28/20 10:10	09/28/20 21:01	TCT	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1550333	1	09/29/20 06:43	09/29/20 22:06	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552515	1	09/18/20 08:55	10/01/20 16:14	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1552753	1	09/17/20 17:20	10/01/20 21:53	JHH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG1551500	2	09/30/20 07:13	09/30/20 16:15	AO	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.

Jared Starkey
Project Manager

Report Revision History

Level II Report - Version 1: 10/08/20 20:47

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.9		1	09/29/2020 14:29	WG1550922

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0352	J	0.0194	0.0430	1	09/28/2020 21:01	WG1550165

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	9.48		0.495	2.15	1	09/29/2020 22:06	WG1550333
Barium	136		0.258	0.538	1	09/29/2020 22:06	WG1550333
Cadmium	0.651		0.0872	0.538	1	09/29/2020 22:06	WG1550333
Chromium	14.6		0.269	1.08	1	09/29/2020 22:06	WG1550333
Copper	83.2		0.544	2.15	1	09/29/2020 22:06	WG1550333
Lead	717		0.224	0.538	1	09/29/2020 22:06	WG1550333
Nickel	14.8		0.527	2.15	1	09/29/2020 22:06	WG1550333
Selenium	U		0.664	2.15	1	09/29/2020 22:06	WG1550333
Silver	U		0.245	1.08	1	09/29/2020 22:06	WG1550333
Zinc	207		1.01	5.38	1	09/29/2020 22:06	WG1550333

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.179		0.0223	0.0538	1	10/01/2020 21:53	WG1552753
Acrylonitrile	U		0.00217	0.0108	1	10/01/2020 16:14	WG1552515
Benzene	0.00161		0.000404	0.00108	1	10/01/2020 16:14	WG1552515
Bromobenzene	U		0.000296	0.00108	1	10/01/2020 16:14	WG1552515
Bromodichloromethane	U		0.000780	0.00108	1	10/01/2020 16:14	WG1552515
Bromoform	U		0.000456	0.00108	1	10/01/2020 16:14	WG1552515
Bromomethane	U		0.00126	0.00538	1	10/01/2020 16:14	WG1552515
n-Butylbenzene	U		0.000278	0.00108	1	10/01/2020 16:14	WG1552515
sec-Butylbenzene	U		0.000216	0.00108	1	10/01/2020 16:14	WG1552515
tert-Butylbenzene	U		0.000222	0.00108	1	10/01/2020 16:14	WG1552515
Carbon tetrachloride	U		0.000267	0.00108	1	10/01/2020 16:14	WG1552515
Chlorobenzene	U		0.000207	0.00108	1	10/01/2020 16:14	WG1552515
Chlorodibromomethane	U		0.000241	0.00108	1	10/01/2020 16:14	WG1552515
Chloroethane	U		0.00108	0.00538	1	10/01/2020 16:14	WG1552515
Chloroform	U		0.00111	0.00538	1	10/01/2020 16:14	WG1552515
Chloromethane	U		0.000699	0.00269	1	10/01/2020 16:14	WG1552515
2-Chlorotoluene	U		0.000242	0.00108	1	10/01/2020 16:14	WG1552515
4-Chlorotoluene	U		0.000744	0.00108	1	10/01/2020 16:14	WG1552515
1,2-Dibromo-3-Chloropropane	U		0.00204	0.00538	1	10/01/2020 16:14	WG1552515
1,2-Dibromoethane	U		0.000269	0.00108	1	10/01/2020 16:14	WG1552515
Dibromomethane	U		0.000377	0.00108	1	10/01/2020 16:14	WG1552515
1,2-Dichlorobenzene	U		0.000457	0.00108	1	10/01/2020 16:14	WG1552515
1,3-Dichlorobenzene	U		0.000646	0.00108	1	10/01/2020 16:14	WG1552515
1,4-Dichlorobenzene	U		0.000893	0.00108	1	10/01/2020 16:14	WG1552515
Dichlorodifluoromethane	U		0.000309	0.00538	1	10/01/2020 16:14	WG1552515
1,1-Dichloroethane	U		0.000288	0.00108	1	10/01/2020 16:14	WG1552515
1,2-Dichloroethane	U		0.000484	0.00108	1	10/01/2020 16:14	WG1552515
1,1-Dichloroethene	U		0.000382	0.00108	1	10/01/2020 16:14	WG1552515
cis-1,2-Dichloroethene	U		0.000511	0.00108	1	10/01/2020 16:14	WG1552515
trans-1,2-Dichloroethene	U		0.000538	0.00108	1	10/01/2020 16:14	WG1552515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloropropane	U		0.000176	0.00108	1	10/01/2020 16:14	WG1552515
1,1-Dichloropropene	U		0.000404	0.00108	1	10/01/2020 16:14	WG1552515
1,3-Dichloropropane	U		0.000242	0.00108	1	10/01/2020 16:14	WG1552515
cis-1,3-Dichloropropene	U		0.000457	0.00108	1	10/01/2020 16:14	WG1552515
trans-1,3-Dichloropropene	U		0.000726	0.00108	1	10/01/2020 16:14	WG1552515
2,2-Dichloropropane	U		0.000404	0.00108	1	10/01/2020 16:14	WG1552515
Di-isopropyl ether	U		0.000238	0.00108	1	10/01/2020 16:14	WG1552515
Ethylbenzene	U		0.000323	0.00108	1	10/01/2020 16:14	WG1552515
Hexachloro-1,3-butadiene	U		0.000368	0.00108	1	10/01/2020 16:14	WG1552515
Isopropylbenzene	U		0.000457	0.00108	1	10/01/2020 16:14	WG1552515
p-Isopropyltoluene	0.000305	J	0.000220	0.00108	1	10/01/2020 16:14	WG1552515
2-Butanone (MEK)	0.0110		0.00504	0.0108	1	10/01/2020 16:14	WG1552515
Methylene Chloride	U		0.00108	0.00538	1	10/01/2020 16:14	WG1552515
4-Methyl-2-pentanone (MIBK)	U		0.00102	0.0108	1	10/01/2020 16:14	WG1552515
Methyl tert-butyl ether	U		0.000377	0.00108	1	10/01/2020 16:14	WG1552515
Naphthalene	U		0.00536	0.00538	1	10/01/2020 16:14	WG1552515
n-Propylbenzene	U		0.000222	0.00108	1	10/01/2020 16:14	WG1552515
Styrene	U		0.000240	0.00108	1	10/01/2020 16:14	WG1552515
1,1,1,2-Tetrachloroethane	U		0.000319	0.00108	1	10/01/2020 16:14	WG1552515
1,1,2,2-Tetrachloroethane	U		0.000249	0.00108	1	10/01/2020 16:14	WG1552515
1,1,2-Trichlorotrifluoroethane	U		0.000458	0.00108	1	10/01/2020 16:14	WG1552515
Tetrachloroethene	U		0.000350	0.00108	1	10/01/2020 16:14	WG1552515
Toluene	U		0.00132	0.00538	1	10/01/2020 16:14	WG1552515
1,2,3-Trichlorobenzene	U		0.000329	0.00108	1	10/01/2020 16:14	WG1552515
1,2,4-Trichlorobenzene	U		0.000418	0.00108	1	10/01/2020 16:14	WG1552515
1,1,1-Trichloroethane	U		0.000398	0.00108	1	10/01/2020 16:14	WG1552515
1,1,2-Trichloroethane	U		0.000457	0.00108	1	10/01/2020 16:14	WG1552515
Trichloroethene	U		0.000215	0.00108	1	10/01/2020 16:14	WG1552515
Trichlorofluoromethane	U		0.000383	0.00538	1	10/01/2020 16:14	WG1552515
1,2,3-Trichloropropane	U		0.000263	0.00269	1	10/01/2020 16:14	WG1552515
1,2,4-Trimethylbenzene	U		0.000227	0.00108	1	10/01/2020 16:14	WG1552515
1,2,3-Trimethylbenzene	U		0.000309	0.00108	1	10/01/2020 16:14	WG1552515
Vinyl chloride	U		0.000243	0.00108	1	10/01/2020 16:14	WG1552515
1,3,5-Trimethylbenzene	U		0.000286	0.00108	1	10/01/2020 16:14	WG1552515
Xylenes, Total	U		0.000538	0.00323	1	10/01/2020 16:14	WG1552515
Ethanol	U	J0	0.0527	0.108	1	10/01/2020 16:14	WG1552515
Ethyl tert-butyl ether	U		0.000269	0.00108	1	10/01/2020 16:14	WG1552515
tert-Amyl Methyl Ether	U		0.000430	0.00108	1	10/01/2020 16:14	WG1552515
tert-Butyl alcohol	0.00643		0.00269	0.00538	1	10/01/2020 16:14	WG1552515
(S) Toluene-d8	*95.0*			*75.0-131*		*10/01/2020 16:14*	WG1552515
(S) Toluene-d8	*104*			*75.0-131*		*10/01/2020 21:53*	WG1552753
(S) 4-Bromofluorobenzene	*99.1*			*67.0-138*		*10/01/2020 16:14*	WG1552515
(S) 4-Bromofluorobenzene	*99.7*			*67.0-138*		*10/01/2020 21:53*	WG1552753
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*10/01/2020 16:14*	WG1552515
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*10/01/2020 21:53*	WG1552753

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0116	0.0717	2	09/30/2020 16:15	WG1551500
Acenaphthylene	U		0.0101	0.0717	2	09/30/2020 16:15	WG1551500
Anthracene	U		0.0128	0.0717	2	09/30/2020 16:15	WG1551500
Benzidine	U		0.135	3.59	2	09/30/2020 16:15	WG1551500
Benzo(a)anthracene	0.0335	J	0.0126	0.0717	2	09/30/2020 16:15	WG1551500
Benzo(b)fluoranthene	0.0454	J	0.0133	0.0717	2	09/30/2020 16:15	WG1551500
Benzo(k)fluoranthene	0.0156	J	0.0127	0.0717	2	09/30/2020 16:15	WG1551500

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	0.0308	J	0.0131	0.0717	2	09/30/2020 16:15	WG1551500
Benzo(a)pyrene	0.0368	J	0.0133	0.0717	2	09/30/2020 16:15	WG1551500
Bis(2-chlorethoxy)methane	U		0.0215	0.717	2	09/30/2020 16:15	WG1551500
Bis(2-chloroethyl)ether	U		0.0237	0.717	2	09/30/2020 16:15	WG1551500
2,2-Oxybis(1-Chloropropane)	U		0.0310	0.717	2	09/30/2020 16:15	WG1551500
4-Bromophenyl-phenylether	U		0.0252	0.717	2	09/30/2020 16:15	WG1551500
2-Chloronaphthalene	U		0.0126	0.0717	2	09/30/2020 16:15	WG1551500
4-Chlorophenyl-phenylether	U		0.0250	0.717	2	09/30/2020 16:15	WG1551500
Chrysene	0.0387	J	0.0142	0.0717	2	09/30/2020 16:15	WG1551500
Dibenz(a,h)anthracene	U		0.0199	0.0717	2	09/30/2020 16:15	WG1551500
1,2-Dichlorobenzene	U		0.0212	0.717	2	09/30/2020 16:15	WG1551500
1,3-Dichlorobenzene	U		0.0217	0.717	2	09/30/2020 16:15	WG1551500
1,4-Dichlorobenzene	U		0.0213	0.717	2	09/30/2020 16:15	WG1551500
3,3-Dichlorobenzidine	U		0.0265	0.717	2	09/30/2020 16:15	WG1551500
2,4-Dinitrotoluene	U		0.0206	0.717	2	09/30/2020 16:15	WG1551500
2,6-Dinitrotoluene	U		0.0235	0.717	2	09/30/2020 16:15	WG1551500
Fluoranthene	0.0385	J	0.0129	0.0717	2	09/30/2020 16:15	WG1551500
Fluorene	U		0.0116	0.0717	2	09/30/2020 16:15	WG1551500
Hexachlorobenzene	U		0.0254	0.717	2	09/30/2020 16:15	WG1551500
Hexachloro-1,3-butadiene	U		0.0241	0.717	2	09/30/2020 16:15	WG1551500
Hexachlorocyclopentadiene	U		0.0377	0.717	2	09/30/2020 16:15	WG1551500
Hexachloroethane	U		0.0282	0.717	2	09/30/2020 16:15	WG1551500
Indeno(1,2,3-cd)pyrene	0.0302	J	0.0202	0.0717	2	09/30/2020 16:15	WG1551500
Isophorone	U		0.0220	0.717	2	09/30/2020 16:15	WG1551500
Naphthalene	U		0.0180	0.0717	2	09/30/2020 16:15	WG1551500
Nitrobenzene	U		0.0250	0.717	2	09/30/2020 16:15	WG1551500
n-Nitrosodimethylamine	U		0.106	0.717	2	09/30/2020 16:15	WG1551500
n-Nitrosodiphenylamine	U		0.0542	0.717	2	09/30/2020 16:15	WG1551500
n-Nitrosodi-n-propylamine	U		0.0239	0.717	2	09/30/2020 16:15	WG1551500
Phenanthrene	0.0224	J	0.0142	0.0717	2	09/30/2020 16:15	WG1551500
Benzylbutyl phthalate	U		0.0224	0.717	2	09/30/2020 16:15	WG1551500
Bis(2-ethylhexyl)phthalate	U		0.0908	0.717	2	09/30/2020 16:15	WG1551500
Di-n-butyl phthalate	U		0.0245	0.717	2	09/30/2020 16:15	WG1551500
Diethyl phthalate	U		0.0237	0.717	2	09/30/2020 16:15	WG1551500
Dimethyl phthalate	U		0.152	0.717	2	09/30/2020 16:15	WG1551500
Di-n-octyl phthalate	U		0.0484	0.717	2	09/30/2020 16:15	WG1551500
Pyrene	0.0487	J	0.0140	0.0717	2	09/30/2020 16:15	WG1551500
1,2,4-Trichlorobenzene	U		0.0224	0.717	2	09/30/2020 16:15	WG1551500
4-Chloro-3-methylphenol	U		0.0232	0.717	2	09/30/2020 16:15	WG1551500
2-Chlorophenol	U		0.0237	0.717	2	09/30/2020 16:15	WG1551500
2,4-Dichlorophenol	U		0.0209	0.717	2	09/30/2020 16:15	WG1551500
2,4-Dimethylphenol	U		0.0187	0.717	2	09/30/2020 16:15	WG1551500
4,6-Dinitro-2-methylphenol	U		0.162	0.717	2	09/30/2020 16:15	WG1551500
2,4-Dinitrophenol	U		0.168	0.717	2	09/30/2020 16:15	WG1551500
2-Nitrophenol	U		0.0256	0.717	2	09/30/2020 16:15	WG1551500
4-Nitrophenol	U		0.0224	0.717	2	09/30/2020 16:15	WG1551500
Pentachlorophenol	U		0.0193	0.717	2	09/30/2020 16:15	WG1551500
Phenol	U		0.0288	0.717	2	09/30/2020 16:15	WG1551500
2,4,6-Trichlorophenol	U		0.0230	0.717	2	09/30/2020 16:15	WG1551500
(S) 2-Fluorophenol	*52.5*			*12.0-120*		*09/30/2020 16:15*	WG1551500
(S) Phenol-d5	*45.4*			*10.0-120*		*09/30/2020 16:15*	WG1551500
(S) Nitrobenzene-d5	*42.2*			*10.0-122*		*09/30/2020 16:15*	WG1551500
(S) 2-Fluorobiphenyl	*53.2*			*15.0-120*		*09/30/2020 16:15*	WG1551500
(S) 2,4,6-Tribromophenol	*77.8*			*10.0-127*		*09/30/2020 16:15*	WG1551500
(S) p-Terphenyl-d14	*66.8*			*10.0-120*		*09/30/2020 16:15*	WG1551500

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch

Sample Narrative:

L1265434-12 WG1551500: Dilution due to matrix impact during extraction procedure

Method Blank (MB)

(MB) R3576070-1 09/29/20 14:29

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

L1265434-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1265434-12 09/29/20 14:29 • (DUP) R3576070-3 09/29/20 14:29

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.9	92.9	1	0.0511		10

Laboratory Control Sample (LCS)

(LCS) R3576070-2 09/29/20 14:29

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

Method Blank (MB)

(MB) R3575448-1 09/28/20 20:44

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) R3575448-2 09/28/20 20:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.498	99.7	80.0-120	

L1265994-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265994-02 09/28/20 20:53 • (MS) R3575448-3 09/28/20 20:56 • (MSD) R3575448-4 09/28/20 20:59

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 %
Mercury	0.500	0.0595	0.621	0.690	94.1	106	1	75.0-125			10.5	20

Method Blank (MB)

(MB) R3575935-1 09/29/20 21:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.460	2.00
Barium	U		0.240	0.500
Cadmium	U		0.0810	0.500
Chromium	U		0.250	1.00
Copper	U		0.506	2.00
Lead	U		0.208	0.500
Nickel	U		0.490	2.00
Selenium	U		0.617	2.00
Silver	U		0.228	1.00
Zinc	U		0.939	5.00

Laboratory Control Sample (LCS)

(LCS) R3575935-2 09/29/20 21:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	95.9	95.9	80.0-120	
Barium	100	102	102	80.0-120	
Cadmium	100	96.8	96.8	80.0-120	
Chromium	100	98.7	98.7	80.0-120	
Copper	100	98.8	98.8	80.0-120	
Lead	100	100	100	80.0-120	
Nickel	100	101	101	80.0-120	
Selenium	100	99.6	99.6	80.0-120	
Silver	20.0	18.2	91.2	80.0-120	
Zinc	100	99.5	99.5	80.0-120	

L1265456-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265456-01 09/29/20 21:38 • (MS) R3575935-5 09/29/20 21:46 • (MSD) R3575935-6 09/29/20 21:48

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	121	U	114	117	93.9	96.9	1	75.0-125			3.07	20
Barium	121	59.5	182	189	101	107	1	75.0-125			3.53	20
Cadmium	121	0.193	116	120	95.8	99.4	1	75.0-125			3.65	20
Chromium	121	29.7	151	160	100	108	1	75.0-125			5.84	20
Copper	121	8.66	132	139	102	108	1	75.0-125			5.45	20
Lead	121	14.3	140	140	104	104	1	75.0-125			0.109	20

L1265456-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265456-01 09/29/20 21:38 • (MS) R3575935-5 09/29/20 21:46 • (MSD) R3575935-6 09/29/20 21:48

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 %
Nickel	121	8.97	135	141	104	109	1	75.0-125			4.40	20
Selenium	121	U	112	119	92.3	98.3	1	75.0-125			6.34	20
Silver	24.2	U	22.4	23.4	92.6	96.8	1	75.0-125			4.41	20
Zinc	121	31.6	149	153	96.6	100	1	75.0-125			2.91	20

Method Blank (MB)

(MB) R3576810-5 10/01/20 13:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00202	0.0100
Benzene	U		0.000375	0.00100
Bromobenzene	U		0.000275	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
2-Chlorotoluene	U		0.000225	0.00100
4-Chlorotoluene	U		0.000691	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dibromomethane	U		0.000350	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
1,1-Dichloropropene	U		0.000375	0.00100
1,3-Dichloropropane	U		0.000225	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
2,2-Dichloropropane	U		0.000375	0.00100
Di-isopropyl ether	U		0.000221	0.00100
Ethylbenzene	U		0.000300	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000425	0.00100
p-Isopropyltoluene	U		0.000204	0.00100

Method Blank (MB)

(MB) R3576810-5 10/01/20 13:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00498	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000223	0.00100
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
Tetrachloroethene	U		0.000325	0.00100
Toluene	U		0.00123	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
1,2,3-Trichloropropane	U		0.000244	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000226	0.00100
Xylenes, Total	U		0.000500	0.00300
tert-Amyl Methyl Ether	U		0.000400	0.00100
Ethyl tert-butyl ether	U		0.000250	0.00100
tert-Butyl alcohol	U		0.00250	0.00500
Ethanol	U		0.0490	0.100
(S) Toluene-d8	*98.8*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.8*			*70.0-130*

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

(LCS) R3576810-1 10/01/20 12:05 • (LCSD) R3576810-2 10/01/20 12:26

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 %
Acrylonitrile	0.125	0.143	0.144	114	115	45.0-153			0.697	22
Benzene	0.0250	0.0270	0.0265	108	106	70.0-123			1.87	20

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

(LCS) R3576810-1 10/01/20 12:05 • (LCSD) R3576810-2 10/01/20 12:26

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 %
Bromobenzene	0.0250	0.0234	0.0230	93.6	92.0	73.0-121			1.72	20
Bromodichloromethane	0.0250	0.0275	0.0269	110	108	73.0-121			2.21	20
Bromoform	0.0250	0.0292	0.0289	117	116	64.0-132			1.03	20
Bromomethane	0.0250	0.0297	0.0286	119	114	56.0-147			3.77	20
n-Butylbenzene	0.0250	0.0247	0.0243	98.8	97.2	68.0-135			1.63	20
sec-Butylbenzene	0.0250	0.0249	0.0245	99.6	98.0	74.0-130			1.62	20
tert-Butylbenzene	0.0250	0.0245	0.0240	98.0	96.0	75.0-127			2.06	20
Carbon tetrachloride	0.0250	0.0285	0.0282	114	113	66.0-128			1.06	20
Chlorobenzene	0.0250	0.0265	0.0260	106	104	76.0-128			1.90	20
Chlorodibromomethane	0.0250	0.0274	0.0268	110	107	74.0-127			2.21	20
Chloroethane	0.0250	0.0304	0.0291	122	116	61.0-134			4.37	20
Chloroform	0.0250	0.0272	0.0267	109	107	72.0-123			1.86	20
Chloromethane	0.0250	0.0276	0.0258	110	103	51.0-138			6.74	20
2-Chlorotoluene	0.0250	0.0245	0.0242	98.0	96.8	75.0-124			1.23	20
4-Chlorotoluene	0.0250	0.0243	0.0240	97.2	96.0	75.0-124			1.24	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0262	0.0266	105	106	59.0-130			1.52	20
1,2-Dibromoethane	0.0250	0.0276	0.0272	110	109	74.0-128			1.46	20
Dibromomethane	0.0250	0.0275	0.0270	110	108	75.0-122			1.83	20
1,2-Dichlorobenzene	0.0250	0.0258	0.0253	103	101	76.0-124			1.96	20
1,3-Dichlorobenzene	0.0250	0.0257	0.0253	103	101	76.0-125			1.57	20
1,4-Dichlorobenzene	0.0250	0.0262	0.0260	105	104	77.0-121			0.766	20
Dichlorodifluoromethane	0.0250	0.0226	0.0222	90.4	88.8	43.0-156			1.79	20
1,1-Dichloroethane	0.0250	0.0264	0.0259	106	104	70.0-127			1.91	20
1,2-Dichloroethane	0.0250	0.0271	0.0268	108	107	65.0-131			1.11	20
1,1-Dichloroethene	0.0250	0.0278	0.0274	111	110	65.0-131			1.45	20
cis-1,2-Dichloroethene	0.0250	0.0281	0.0277	112	111	73.0-125			1.43	20
trans-1,2-Dichloroethene	0.0250	0.0279	0.0273	112	109	71.0-125			2.17	20
1,2-Dichloropropane	0.0250	0.0260	0.0257	104	103	74.0-125			1.16	20
1,1-Dichloropropene	0.0250	0.0276	0.0269	110	108	73.0-125			2.57	20
1,3-Dichloropropane	0.0250	0.0264	0.0260	106	104	80.0-125			1.53	20
cis-1,3-Dichloropropene	0.0250	0.0270	0.0267	108	107	76.0-127			1.12	20
trans-1,3-Dichloropropene	0.0250	0.0272	0.0268	109	107	73.0-127			1.48	20
2,2-Dichloropropane	0.0250	0.0260	0.0253	104	101	59.0-135			2.73	20
Di-isopropyl ether	0.0250	0.0267	0.0261	107	104	60.0-136			2.27	20
Ethylbenzene	0.0250	0.0270	0.0262	108	105	74.0-126			3.01	20
Hexachloro-1,3-butadiene	0.0250	0.0248	0.0243	99.2	97.2	57.0-150			2.04	20
Isopropylbenzene	0.0250	0.0270	0.0264	108	106	72.0-127			2.25	20
p-Isopropyltoluene	0.0250	0.0253	0.0251	101	100	72.0-133			0.794	20
2-Butanone (MEK)	0.125	0.151	0.150	121	120	30.0-160			0.664	24
Methylene Chloride	0.0250	0.0269	0.0263	108	105	68.0-123			2.26	20

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

(LCS) R3576810-1 10/01/20 12:05 • (LCSD) R3576810-2 10/01/20 12:26

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 %
4-Methyl-2-pentanone (MIBK)	0.125	0.138	0.139	110	111	56.0-143			0.722	20
Methyl tert-butyl ether	0.0250	0.0286	0.0280	114	112	66.0-132			2.12	20
Naphthalene	0.0250	0.0253	0.0263	101	105	59.0-130			3.88	20
n-Propylbenzene	0.0250	0.0242	0.0237	96.8	94.8	74.0-126			2.09	20
Styrene	0.0250	0.0271	0.0265	108	106	72.0-127			2.24	20
1,1,1,2-Tetrachloroethane	0.0250	0.0257	0.0252	103	101	74.0-129			1.96	20
1,1,2,2-Tetrachloroethane	0.0250	0.0248	0.0248	99.2	99.2	68.0-128			0.000	20
Tetrachloroethene	0.0250	0.0280	0.0271	112	108	70.0-136			3.27	20
Toluene	0.0250	0.0257	0.0252	103	101	75.0-121			1.96	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0282	0.0274	113	110	61.0-139			2.88	20
1,2,3-Trichlorobenzene	0.0250	0.0245	0.0245	98.0	98.0	59.0-139			0.000	20
1,2,4-Trichlorobenzene	0.0250	0.0248	0.0250	99.2	100	62.0-137			0.803	20
1,1,1-Trichloroethane	0.0250	0.0276	0.0271	110	108	69.0-126			1.83	20
1,1,2-Trichloroethane	0.0250	0.0268	0.0262	107	105	78.0-123			2.26	20
Trichloroethene	0.0250	0.0289	0.0280	116	112	76.0-126			3.16	20
Trichlorofluoromethane	0.0250	0.0284	0.0279	114	112	61.0-142			1.78	20
1,2,3-Trichloropropane	0.0250	0.0266	0.0260	106	104	67.0-129			2.28	20
1,2,3-Trimethylbenzene	0.0250	0.0247	0.0244	98.8	97.6	74.0-124			1.22	20
1,2,4-Trimethylbenzene	0.0250	0.0246	0.0243	98.4	97.2	70.0-126			1.23	20
1,3,5-Trimethylbenzene	0.0250	0.0247	0.0243	98.8	97.2	73.0-127			1.63	20
tert-Amyl Methyl Ether	0.0250	0.0291	0.0287	116	115	66.0-135			1.38	20
Ethyl tert-butyl ether	0.0250	0.0279	0.0276	112	110	68.0-140			1.08	20
Vinyl chloride	0.0250	0.0252	0.0247	101	98.8	63.0-134			2.00	20
Xylenes, Total	0.0750	0.0817	0.0796	109	106	72.0-127			2.60	20
ethanol	1.00	1.21	1.09	121	109	10.0-160			10.4	33
tert-Butyl alcohol	0.125	0.135	0.131	108	105	15.0-160			3.01	33
(S) Toluene-d8				*95.3*	*95.4*	*75.0-131*				
(S) 4-Bromofluorobenzene				*103*	*102*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*109*	*100*	*70.0-130*				

Method Blank (MB)

(MB) R3576908-4 10/01/20 13:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
(S) Toluene-d8	*108*			*75.0-131*
(S) 4-Bromofluorobenzene	*101*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*95.9*			*70.0-130*

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

(LCS) R3576908-1 10/01/20 11:44 • (LCSD) R3576908-2 10/01/20 12:06

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	0.125	0.128	0.140	102	112	10.0-160			8.96	31
(S) Toluene-d8				*105*	*103*	*75.0-131*				
(S) 4-Bromofluorobenzene				*106*	*104*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*106*	*105*	*70.0-130*				

Method Blank (MB)

(MB) R3576241-2 09/30/20 11:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00539	0.0333
Acenaphthylene	U		0.00469	0.0333
Anthracene	U		0.00593	0.0333
Benzidine	U		0.0626	1.67
Benzo(a)anthracene	U		0.00587	0.0333
Benzo(b)fluoranthene	U		0.00621	0.0333
Benzo(k)fluoranthene	U		0.00592	0.0333
Benzo(g,h,i)perylene	U		0.00609	0.0333
Benzo(a)pyrene	U		0.00619	0.0333
Bis(2-chlorethoxy)methane	U		0.0100	0.333
Bis(2-chloroethyl)ether	U		0.0110	0.333
2,2-Oxybis(1-Chloropropane)	U		0.0144	0.333
4-Bromophenyl-phenylether	U		0.0117	0.333
2-Chloronaphthalene	U		0.00585	0.0333
4-Chlorophenyl-phenylether	U		0.0116	0.333
Chrysene	U		0.00662	0.0333
Dibenz(a,h)anthracene	U		0.00923	0.0333
1,2-Dichlorobenzene	U		0.00987	0.333
1,3-Dichlorobenzene	U		0.0101	0.333
1,4-Dichlorobenzene	U		0.00991	0.333
3,3-Dichlorobenzidine	U		0.0123	0.333
2,4-Dinitrotoluene	U		0.00955	0.333
2,6-Dinitrotoluene	U		0.0109	0.333
Fluoranthene	U		0.00601	0.0333
Fluorene	U		0.00542	0.0333
Hexachlorobenzene	U		0.0118	0.333
Hexachloro-1,3-butadiene	U		0.0112	0.333
Hexachlorocyclopentadiene	U		0.0175	0.333
Hexachloroethane	U		0.0131	0.333
Indeno(1,2,3-cd)pyrene	U		0.00941	0.0333
Isophorone	U		0.0102	0.333
Naphthalene	U		0.00836	0.0333
Nitrobenzene	U		0.0116	0.333
n-Nitrosodimethylamine	U		0.0494	0.333
n-Nitrosodiphenylamine	U		0.0252	0.333
n-Nitrosodi-n-propylamine	U		0.0111	0.333
Phenanthrene	U		0.00661	0.0333
Benzylbutyl phthalate	U		0.0104	0.333
Bis(2-ethylhexyl)phthalate	U		0.0422	0.333
Di-n-butyl phthalate	U		0.0114	0.333

Method Blank (MB)

(MB) R3576241-2 09/30/20 11:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diethyl phthalate	U		0.0110	0.333
Dimethyl phthalate	U		0.0706	0.333
Di-n-octyl phthalate	U		0.0225	0.333
Pyrene	U		0.00648	0.0333
1,2,4-Trichlorobenzene	U		0.0104	0.333
4-Chloro-3-methylphenol	U		0.0108	0.333
2-Chlorophenol	U		0.0110	0.333
2,4-Dichlorophenol	U		0.00970	0.333
2,4-Dimethylphenol	U		0.00870	0.333
4,6-Dinitro-2-methylphenol	U		0.0755	0.333
2,4-Dinitrophenol	U		0.0779	0.333
2-Nitrophenol	U		0.0119	0.333
4-Nitrophenol	U		0.0104	0.333
Pentachlorophenol	U		0.00896	0.333
Phenol	U		0.0134	0.333
2,4,6-Trichlorophenol	U		0.0107	0.333
(S) 2-Fluorophenol	*66.1*			*12.0-120*
(S) Phenol-d5	*56.5*			*10.0-120*
(S) Nitrobenzene-d5	*51.7*			*10.0-122*
(S) 2-Fluorobiphenyl	*54.7*			*15.0-120*
(S) 2,4,6-Tribromophenol	*52.3*			*10.0-127*
(S) p-Terphenyl-d14	*63.7*			*10.0-120*

Laboratory Control Sample (LCS)

(LCS) R3576241-1 09/30/20 11:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.419	62.9	38.0-120	
Acenaphthylene	0.666	0.456	68.5	40.0-120	
Anthracene	0.666	0.463	69.5	42.0-120	
Benzidine	1.33	0.289	21.7	10.0-120	
Benzo(a)anthracene	0.666	0.546	82.0	44.0-120	
Benzo(b)fluoranthene	0.666	0.476	71.5	43.0-120	
Benzo(k)fluoranthene	0.666	0.478	71.8	44.0-120	
Benzo(g,h,i)perylene	0.666	0.480	72.1	43.0-120	
Benzo(a)pyrene	0.666	0.518	77.8	45.0-120	
Bis(2-chlorethoxy)methane	0.666	0.437	65.6	20.0-120	
Bis(2-chloroethyl)ether	0.666	0.491	73.7	16.0-120	

Laboratory Control Sample (LCS)

(LCS) R3576241-1 09/30/20 11:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
2,2-Oxybis(1-Chloropropane)	0.666	0.434	65.2	23.0-120	
4-Bromophenyl-phenylether	0.666	0.423	63.5	40.0-120	
2-Chloronaphthalene	0.666	0.426	64.0	35.0-120	
4-Chlorophenyl-phenylether	0.666	0.458	68.8	40.0-120	
Chrysene	0.666	0.484	72.7	43.0-120	
Dibenz(a,h)anthracene	0.666	0.502	75.4	44.0-120	
1,2-Dichlorobenzene	0.666	0.437	65.6	32.0-120	
1,3-Dichlorobenzene	0.666	0.417	62.6	30.0-120	
1,4-Dichlorobenzene	0.666	0.436	65.5	31.0-120	
3,3-Dichlorobenzidine	1.33	0.824	62.0	28.0-120	
2,4-Dinitrotoluene	0.666	0.515	77.3	45.0-120	
2,6-Dinitrotoluene	0.666	0.500	75.1	42.0-120	
Fluoranthene	0.666	0.489	73.4	44.0-120	
Fluorene	0.666	0.454	68.2	41.0-120	
Hexachlorobenzene	0.666	0.424	63.7	39.0-120	
Hexachloro-1,3-butadiene	0.666	0.428	64.3	15.0-120	
Hexachlorocyclopentadiene	0.666	0.277	41.6	15.0-120	
Hexachloroethane	0.666	0.444	66.7	17.0-120	
Indeno(1,2,3-cd)pyrene	0.666	0.515	77.3	45.0-120	
Isophorone	0.666	0.410	61.6	23.0-120	
Naphthalene	0.666	0.427	64.1	18.0-120	
Nitrobenzene	0.666	0.429	64.4	17.0-120	
n-Nitrosodimethylamine	0.666	0.402	60.4	10.0-125	
n-Nitrosodiphenylamine	0.666	0.440	66.1	40.0-120	
n-Nitrosodi-n-propylamine	0.666	0.446	67.0	26.0-120	
Phenanthrene	0.666	0.448	67.3	42.0-120	
Benzylbutyl phthalate	0.666	0.596	89.5	40.0-120	
Bis(2-ethylhexyl)phthalate	0.666	0.587	88.1	41.0-120	
Di-n-butyl phthalate	0.666	0.516	77.5	43.0-120	
Diethyl phthalate	0.666	0.494	74.2	43.0-120	
Dimethyl phthalate	0.666	0.479	71.9	43.0-120	
Di-n-octyl phthalate	0.666	0.643	96.5	40.0-120	
Pyrene	0.666	0.517	77.6	41.0-120	
1,2,4-Trichlorobenzene	0.666	0.450	67.6	17.0-120	
4-Chloro-3-methylphenol	0.666	0.483	72.5	28.0-120	
2-Chlorophenol	0.666	0.452	67.9	28.0-120	
2,4-Dichlorophenol	0.666	0.451	67.7	25.0-120	
2,4-Dimethylphenol	0.666	0.461	69.2	15.0-120	
4,6-Dinitro-2-methylphenol	0.666	0.489	73.4	16.0-120	
2,4-Dinitrophenol	0.666	0.367	55.1	10.0-120	

Laboratory Control Sample (LCS)

(LCS) R3576241-1 09/30/20 11:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
2-Nitrophenol	0.666	0.497	74.6	20.0-120	
4-Nitrophenol	0.666	0.505	75.8	27.0-120	
Pentachlorophenol	0.666	0.414	62.2	29.0-120	
Phenol	0.666	0.413	62.0	28.0-120	
2,4,6-Trichlorophenol	0.666	0.460	69.1	37.0-120	
(S) 2-Fluorophenol			*76.3*	*12.0-120*	
(S) Phenol-d5			*64.0*	*10.0-120*	
(S) Nitrobenzene-d5			*57.7*	*10.0-122*	
(S) 2-Fluorobiphenyl			*63.7*	*15.0-120*	
(S) 2,4,6-Tribromophenol			*66.8*	*10.0-127*	
(S) p-Terphenyl-d14			*69.4*	*10.0-120*	

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.
MDL (dry)	Method Detection Limit.
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.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration met method criteria.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
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	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

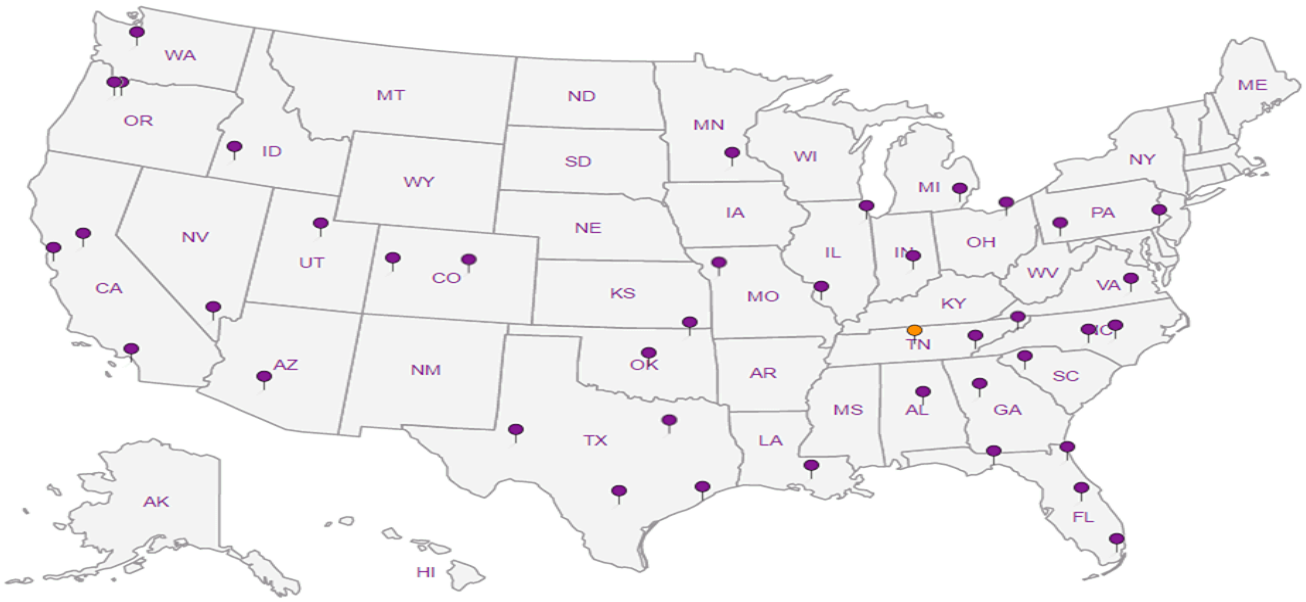
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY L1265434

Company:
Stantec
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Billing Information: Accounts Payable
Cyrus Gorman
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Report To: Sarah Von Raesfeld (sarah.vonraesfeld@stantec.com)
Copy To: Cyrus Gorman (cyrus.gorman@stantec.com)

Project Name: 130 East Sprague Avenue Phase II ESA
Project Address: 130 E. Sprague Avenue, Spokane, WA 99202
Project Number: 185751194

Lab Project: SECORTOR-SPOKANE

Collected By: Aaron Wisher
Signature:

State: WA **City:** Spokane
Time Zone Collected: [x]PT [ ]MT [ ]CT [ ]ET

Immediately Packed on Ice:
[x] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

TAT Required: Standard X
Rush _____

Sample Disposal: [x] Dispose as appropriate
[ ] Hold: _____

* Matrix Codes: Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Air (AR), Vapor (V), Other (OT)

Container Preservative Type **

** 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

Customer Sample ID	Matrix Code*	Sample Type	Sample Collection Date	Sample Collection Time	Res Cl	Number of Containers	VOCs (5035/8260C-Low level)	GRO (NWTPH-Gx)	DRO/RRO (NWTPH-Dx)	PAHs (EPA 8270D SIM)	RCRA 8 Metals (EPA 6020B/7471B)	Percent Solids (SM2540)	
SR-FD01SO	SL	Grab	9/17/20	07:30		5	X	X	X	X	X	X	-01
SR-TB01	OT	Grab	9/17/20	08:00		+4	X						-02
SR-BH05SO 2-2.5	SL	Grab	9/17/20	1605		5	X	X	X	X	X	X	-03
SR-BH02SO 0.5-1.0	SL	Grab	9/17/20	1650		5	X	X	X	X	X	X	-04
SR-BH01SO 1.5-2.0	SL	Grab	9/17/20	1710		10 Saw	X	X	X	X	X	X	-05 MS/MSD only 1 extra Set
SR-BH03SO 0.5-1.0	SL	Grab	9/17/20	1612		5	X	X	X	X	X	X	-06
SR-BH06SO 2-3	SL	Grab	9/17/20	1528		5	X	X	X	X	X	X	-07 ~~matrix spike/matrix spike duplicate~~ CW
SR-BH10SO 3-3.5	SL	Grab	9/17/20	1505		5	X	X	X	X	X	X	-08
SR-BH09SO 2-3	SL	Grab	9/17/20	1520		5	X	X	X	X	X	X	-09
SR-BH10SO 6.5-7	SL	Grab	9/17/20	1510		5	X	X	X	X	X	X	-10
SR-BH07SO 0.5-1.0	SL	Grab	9/17/20	1500		5	X	X	X	X	X	X	-11

Lab Project Manager:

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
USSR 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:

J022

Customer Remarks / Special Conditions / Possible Hazards:
Report data to the MDL.
Provide Level II PDF and EFWEDD format EDD

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 #: 4195 3255 6924

Samples received via:
FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: IR7
Cooler 1 Temp Upon Receipt: 1.1 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 1.0 oC

	Date/Time:		Date/Time:	
Relinquished by/Company: (Signature) STANTEC	9-21-20 1000	Received by/Company: (Signature)	9/21/20	1000/(FT)
Relinquished by/Company: (Signature)		Received by/Company: (Signature)	9/23/20	9:01
Relinquished by/Company: (Signature)		Received by/Company: (Signature)		

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: YES / NO N NA
4 HCl MeOH TSP Other

Non Conformance(s): YES / NO
Pg: ____ of: ____

count = 78

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CHAIN-OF-CUSTODY Analytical Request Document

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ALL SHADED AREAS are for LAB USE ONLY 4265434

Company:
Stantec
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Billing Information: Accounts Payable
Cyrus Gorman
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Report To: Sarah Von Raesfeld (sarah.vonraesfeld@stantec.com)
Copy To: Cyrus Gorman (cyrus.gorman@stantec.com)

Project Name: 130 East Sprague Avenue Phase II ESA
Project Address: 130 E. Sprague Avenue, Spokane, WA 99202
Project Number: 185751194

Lab Project: SECORTOR-SPOKANE

Collected By: Aaron Wisher
Signature:

State: WA **City:** Spokane
Time Zone Collected: [x]PT [ ]MT [ ]CT [ ]ET

Immediately Packed on Ice:
[x] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

TAT Required: Standard X
Rush _____

Sample Disposal: [x] Dispose as appropriate
[ ] Hold: _____

* Matrix Codes: Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Air (AR), Vapor (V), Other (OT)

Container Preservative Type **

** 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

Customer Sample ID	Matrix Code*	Sample Type	Sample Collection Date	Sample Collection Time	Res Cl	Number of Containers	VOCs (8260C)	SVOCs (8270D)	RCRA 8 Metals + Cu, Ni, Zn (6010D/7471B/7470A)
SR-IDWSO	SL	Grab	9/17/20	1720		4 5	X	X	X

Lab Project Manager:

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
USSR 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:

-12

Customer Remarks / Special Conditions / Possible Hazards:
Report data to the MDL.
Provide Level II PDF and EFWEDD format EDD

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#: UM A7
Cooler 1 Temp Upon Receipt: 4.1 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 4.0 oC

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
Stantec	4-21-20 1000	Mitnsn 9/21/20 1000 (FED)		Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum:
				Template:
				Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM:
			9/23/20 9:00	PB:

Trip Blank Received: Y N NA
HCl MeOH TSP Other

Non Conformance(s): YES / NO

Pg: _____
of: _____

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY L1245434

Company:
Stantec
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Billing Information: Accounts Payable
Cyrus Gorman
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Report To: Sarah Von Raesfeld (sarah.vonraesfeld@stantec.com)
Copy To: Cyrus Gorman (cyrus.gorman@stantec.com)

Project Name: 130 East Sprague Avenue Phase II ESA
Project Address: 130 E. Sprague Avenue, Spokane, WA 99202
Project Number: 185751194

Lab Project: SECORTOR-SPOKANE

Collected By: Aaron Wisher
Signature:

State: WA **City:** Spokane
Time Zone Collected: [x]PT [ ]MT [ ]CT [ ]ET

Immediately Packed on Ice:
[x] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis: dissolved RCRA 8 metals / EPA Methods 6020B/7470A

TAT Required: Standard X
Rush _____

Sample Disposal: [x] Dispose as appropriate
[ ] Hold: _____

* Matrix Codes: Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Air (AR), Vapor (V), Other (OT)

Container Preservative Type **

** 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

Customer Sample ID	Matrix Code	Sample Type	Sample Collection Date	Sample Collection Time	Res Cl	Number of Containers	VOCs (8260C-Low level)	EDB (EPA 8011)	GRO (NWTPH-Gx)	PAHs (EPA 8270D- SIM)	DRO/RRO (NWTPH-Dx)	Total RCRA 8 Metals (EPA 6020B/7470A)
SR-EB01	OT	GRAB	9/17/20	1705		6	X		X	X	X	X

Lab Project Manager:

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
USSR 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:

-13

~~matrix spike/matrix spike duplicate~~ pw

Customer Remarks / Special Conditions / Possible Hazards:
Report data to the MDL.
Provide Level II PDF and EFWEDD format EDD

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#: UNIAT
Cooler 1 Temp Upon Receipt: 6.1 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 6.0 oC

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
STANTEC	9/21/20 1000	M. H (ET) 9/21/20 1000		Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum:
				Template:
				Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM:
		Fedex	9/23/20 900	PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Pg: ____ of: ____

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY 42654934

Company:
Stantec
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Billing Information: Accounts Payable
Cyrus Gorman
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Report To: Sarah Von Raesfeld (sarah.vonraesfeld@stantec.com)
Copy To: Cyrus Gorman (cyrus.gorman@stantec.com)

Project Name: 130 East Sprague Avenue Phase II ESA
Project Address: 130 E. Sprague Avenue, Spokane, WA 99202
Project Number: 185751194
Lab Project:

Collected By: Aaron Wisher
Signature:

State: WA **City:** Spokane
Time Zone Collected: [x]PT [ ]MT [ ]CT [ ]ET

Immediately Packed on Ice:
[x] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis: dissolved RCRA 8 metals / EPA Methods 6020B/7470A

TAT Required: Standard X
Rush _____

Sample Disposal: [x] Dispose as appropriate
[ ] Hold: _____

* Matrix Codes: Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Air (AR), Vapor (V), Other (OT)

Container Preservative Type **

** 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

Customer Sample ID	Matrix Code*	Sample Type	Sample Collection Date	Sample Collection Time	Res Cl	Number of Containers	VOCs (8260-Low level)	GRO (NWTPH-Gx)	DRO/RRO (NWTPH-Dx)	PAHs (EPA 8270 SIM)	RCRA 8 Metals (6020/7471/7470)	EDB/DCBP (EPA 8011)	Percent Solids (SM2540)	
SR-BH0850 0.5-1.0	SL	GRAB	9-17-20	1545		5	X	X	X	X	X		X	14
SR-BH0450 0.5-1.0	SL	GRAB	9-17-20	1450		5	X	X	X	X	X		X	15

9/17/20

Lab Project Manager:

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
USSR 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:

Customer Remarks / Special Conditions / Possible Hazards:
Report data to the MDL.
Provide Level II PDF and EFWEDD format EDD

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#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: ___oC
Cooler 1 Corrected Temp: oC

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
Stantec	9/21/20 1000	Mike 9/21/20 FED 1000		Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:
		Dennison	9/23/20 9:00	

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO
Pg: ____ of: ____

Pace Analytical®
National Center for Testing & Innovation

Login #: L1265434	Client: STANTECLWA	Date:09/23/20	Evaluated by:Cole Medley

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time		Login Clarification Needed		**If Broken Container:**
	Temperature not in range		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	pH not in range.		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Cour
	Insufficient sample volume.	X	Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: Received additional samples not listed on coc.
Received 2 40mlAmb/MeOH10ml/Syr with sample inside, with no identification of any kind on the vial

Client informed by:		Call		Email		Voice Mail		Date:	Time:
TSR Initials:	Client Contact: Aaron Wisher								

Login Instructions:

Discard those unlabeled samples

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

October 08, 2020

Stantec - Lynnwood, WA

Sample Delivery Group:	L1268600
Samples Received:	09/23/2020
Project Number:	185751194
Description:	Site 02: 430 East Sprague Avenue

Report To:

Cyrus Gorman
4100 194th Street SW
Suite 400
Lynnwood, WA 98036

Entire Report Reviewed By:

Jared Starkey
Project Manager

TABLE OF CONTENTS

DA-IDWSO L1268600-01 Waste

Collected by: Aaron Wisher
Collected date/time: 09/18/20 17:10
Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG1554723	1	10/07/20 12:36	10/07/20 12:36	JGB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1556022	1	10/08/20 10:21	10/08/20 12:23	CCE	Mt. Juliet, TN

HN-IDWSO L1268600-02 Waste

Collected by: Aaron Wisher
Collected date/time: 09/17/20 14:30
Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG1554723	1	10/07/20 12:36	10/07/20 12:36	JGB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1556022	1	10/08/20 10:21	10/08/20 12:42	CCE	Mt. Juliet, TN

SR-IDWSO L1268600-03 Waste

Collected by: Aaron Wisher
Collected date/time: 09/17/20 17:20
Received date/time: 09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG1554723	1	10/07/20 12:36	10/07/20 12:36	JGB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1556022	1	10/08/20 10:21	10/08/20 12:51	CCE	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.

Jared Starkey
Project Manager

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		10/7/2020 12:36:35 PM	WG1554723
Fluid	1		10/7/2020 12:36:35 PM	WG1554723
Initial pH	8.45		10/7/2020 12:36:35 PM	WG1554723
Final pH	5.13		10/7/2020 12:36:35 PM	WG1554723

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Limit	Dilution	Analysis date / time	Batch
	mg/l		mg/l	mg/l			
Lead	ND		0.100	5	1	10/08/2020 12:23	WG1556022

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		10/7/2020 12:36:35 PM	WG1554723
Fluid	1		10/7/2020 12:36:35 PM	WG1554723
Initial pH	8.72		10/7/2020 12:36:35 PM	WG1554723
Final pH	5.07		10/7/2020 12:36:35 PM	WG1554723

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Limit	Dilution	Analysis date / time	Batch
	mg/l		mg/l	mg/l			
Lead	0.130		0.100	5	1	10/08/2020 12:42	WG1556022

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		10/7/2020 12:36:35 PM	WG1554723
Fluid	1		10/7/2020 12:36:35 PM	WG1554723
Initial pH	8.61		10/7/2020 12:36:35 PM	WG1554723
Final pH	5.13		10/7/2020 12:36:35 PM	WG1554723

Metals (ICP) by Method 6010D

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Lead	0.301		0.100	5	1	10/08/2020 12:51	WG1556022

Method Blank (MB)

(MB) R3579356-1 10/08/20 12:17

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.0333	0.100

Laboratory Control Sample (LCS)

(LCS) R3579356-2 10/08/20 12:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	10.0	9.90	99.0	80.0-120	

L1268761-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1268761-02 10/08/20 12:34 • (MS) R3579356-6 10/08/20 12:37 • (MSD) R3579356-7 10/08/20 12:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	10.0	ND	9.71	9.73	97.1	97.3	1	75.0-125			0.195	20

L1268600-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1268600-01 10/08/20 12:23 • (MS) R3579356-4 10/08/20 12:29 • (MSD) R3579356-5 10/08/20 12:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	10.0	ND	9.95	10.1	98.6	100	1	75.0-125			1.36	20

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.
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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
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	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

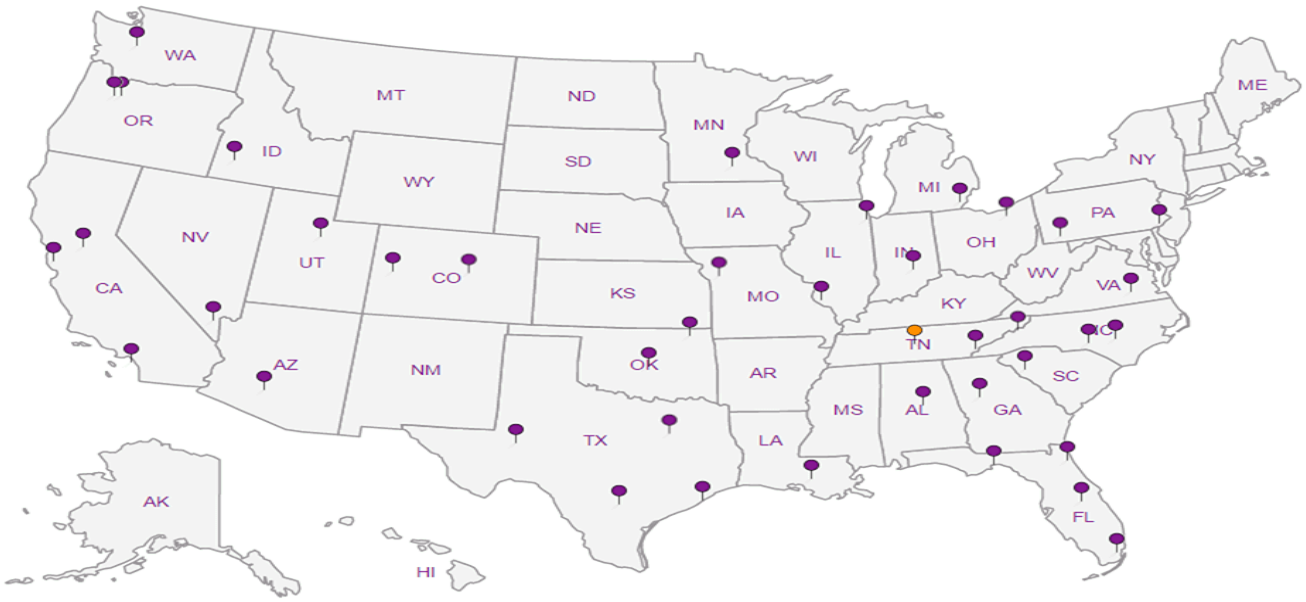
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY L1268600

AV 9/1/20

Company: Stantec 4100 194th Street SW Suite 400 Lynnwood, WA 98036	**Billing Information:** Accounts Payable Cyrus Gorman 4100 194th Street SW Suite 400 Lynnwood, WA 98036
Report To: Sarah Von Raesfeld (sarah.vonraesfeld@stantec.com) **Copy To:** Cyrus Gorman (cyrus.gorman@stantec.com)	
Project Name: 430 East Sprague Avenue Phase II ESA **Project Address:** 430 E. Sprague Avenue, Spokane, WA 99202 **Project Number:** 185791194	**Lab Project:** SECORTOR-SPOKANE
Collected By: Aaron Wisher **Signature:**	**State:** WA **City:** Spokane **Time Zone Collected:** [x]PT [ ]MT [ ]CT [ ]ET
Immediately Packed on Ice: [x] Yes [ ] No	**Field Filtered (if applicable):** [ ] Yes [ ] No Analysis:
TAT Required: Standard X Rush _____	**Sample Disposal:** [x] Dispose as appropriate [ ] Hold: _____

* Matrix Codes: Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Air (AR), Vapor (V), Other (OT)

Container Preservative Type **

** 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

Customer Sample ID	Matrix Code*	Sample Type	Sample Collection Date	Sample Collection Time	Res Cl	Number of Containers	VOCs (8260C)	SVOCs (8270D)	RCRA 8 Metals + Cu, Ni, Zn (6010D/7471B/7470A)								
DA-IDWSO	SL	Grab	9-18-20	1710		4	X	X	X								

~~4~~ L1268600-01

9/18/20

Lab Project Manager:

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
Sample pH Acceptable	Y	N	NA
Sulfide Present	Y	N	NA

Cl Strips: _____
pH Strips: _____
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:
Report data to the MDL.
Provide Level II PDF and EFWEDD format EDD

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 #: 4198 3255 6902

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: IR177
Cooler 1 Temp Upon Receipt: 1.7 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 1.6 oC

Relinquished by/Company: (Signature) Stantec	Date/Time: 9/21/20 1000	Received by/Company: (Signature)	Date/Time: 9/21/20 1000 (FED)	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 9/23/20 9:00	PM: PB:

Trip Blank Received: Y N NA
HCl MeOH TSP Other

Non Conformance(s): YES / NO

Pg: ____ of: ____

Pace Analytical™

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY L1265426

AV 10/1/20

Company:
Stantec
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Billing Information: Accounts Payable
Cyrus Gorman
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Report To: Sarah Von Raesfeld (sarah.vonraesfeld@stantec.com)
Copy To: Cyrus Gorman (cyrus.gorman@stantec.com)

Project Name: 217-237 East Sprague Avenue Phase II ESA
Project Address: 217-237 E. Sprague Avenue, Spokane, WA 99202
Project Number: 185751194

Lab Project: SECORTOR-SPOKANE

Collected By: Aaron Wisher
Signature:

State: WA **City:** Spokane
Time Zone Collected: [x]PT [ ]MT [ ]CT [ ]ET

Immediately Packed on Ice:
[x] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

TAT Required: Standard X
Rush _____

Sample Disposal: [x] Dispose as appropriate
[ ] Hold: _____

* Matrix Codes: Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Air (AR), Vapor (V), Other (OT)

Container Preservative Type **

** 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

Customer Sample ID	Matrix Code*	Sample Type	Sample Collection Date	Sample Collection Time	Res Cl	Number of Containers	VOCs (8260C)	SVOCs (8270D)	RCRA 8 Metals + Cu, Ni, Zn (6010D/7471B/7470A)
HN-IDW50	SL	Grab	9-17-20	1430		5	X	X	X

-20 L1268600-02

9/17/20

Lab Project Manager:

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
USHN 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:

Customer Remarks / Special Conditions / Possible Hazards:
Report data to the MDL.
Provide Level II PDF and EFWEDD format EDD

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#: UM #7
Cooler 1 Temp Upon Receipt: 2.2 oC
Cooler 1 Therm Corr. Factor +.1 oC
Cooler 1 Corrected Temp: 2.1 oC

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
Stantec	9-21-20 1000	Miltman (FED) 9/21/20 1000		Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 9/23/20	PM: PB:

Trip Blank Received: Y N NA
HCl MeOH TSP Other

Non Conformance(s): YES / NO

Pg: ____ of: ____

AV 10/1/20

Pace Analytical / Pace Analytical / Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY 42654534

Company:
Stantec
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Billing Information: Accounts Payable
Cyrus Gorman
4100 194th Street SW Suite 400
Lynnwood, WA 98036

Report To: Sarah Von Raesfeld (sarah.vonraesfeld@stantec.com)
Copy To: Cyrus Gorman (cyrus.gorman@stantec.com)

Project Name: 130 East Sprague Avenue Phase II ESA
Project Address: 130 E. Sprague Avenue, Spokane, WA 99202
Project Number: 185751194

Lab Project: SECORTOR-SPOKANE

Collected By: Aaron Wisher
Signature:

State: WA **City:** Spokane
Time Zone Collected: [x]PT [ ]MT [ ]CT [ ]ET

Immediately Packed on Ice:
[x] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

TAT Required: Standard X
Rush _____

Sample Disposal: [x] Dispose as appropriate
[ ] Hold: _____

* Matrix Codes: Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Air (AR), Vapor (V), Other (OT)

Container Preservative Type **

** 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

Customer Sample ID	Matrix Code*	Sample Type	Sample Collection Date	Sample Collection Time	Res Cl	Number of Containers	VOCs (8260C)	SVOCs (8270D)	RCRA 8 Metals + Cu, Ni, Zn (6010D/7471B/7470A)
SR-IDW50	SL	Grab	9/17/20	1720		45	X	X	X

L1768600-03

9/17/20

Lab Project Manager:

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
USSR 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:

Customer Remarks / Special Conditions / Possible Hazards:
Report data to the MDL.
Provide Level II PDF and EFWEDD format EDD

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#: UM17
Cooler 1 Temp Upon Receipt: 1.1 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 1.0 oC

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
Stantec	9-21-20 1000	M. Hanson 9/21/20 1000 (EST)		Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum:
				Template:
				Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM:
			9/23/20 900	PB:

Trip Blank Received: (Y) N NA
HCl MeOH TSP Other

Non Conformance(s): (YES) / NO

Pg: ____ of: ____

STANTECLWA Relog Multiple L#s

R5

Please re-log the following for TCLP Lead

L1265421-19
L1265426-20
L1265434-12

Time estimate: oh **Time spent:** oh

Members

JS Jared Starkey (responsible)

APPENDIX D

Calculation of PAH Diagnostic Ratios

Calculation of PAH Diagnostic Ratios for Distinguishing Pyrogenic Hydrocarbons and Petrogenic Hydrocarbons

Sources:

- Jiao, H., Q. Wang, N. Zhao, B. Jin, X. Zhuang, and Z. Bai. 2017. "Distributions and Sources of Polycyclic Aromatic Hydrocarbons (PAHs) in Soils Around a Chemical Plant in Shanxi, China." International Journal of Environmental Research and Public Health 14 (10). doi:10.3390/ijerph14101198. www.scopus.com.

- Tobiszewski, M. and J. Namieśnik. 2012. "PAH Diagnostic Ratios for the Identification of Pollution Emission Sources." Environmental Pollution 162: 110-119. doi:10.1016/j.envpol.2011.10.025. www.scopus.com.

- Zhang, W., S. Zhang, C. Wan, D. Yue, Y. Ye, and X. Wang. 2008. "Source Diagnostics of Polycyclic Aromatic Hydrocarbons in Urban Road Runoff, Dust, Rain and Canopy Throughfall." Environmental Pollution 153 (3): 594-601. doi:10.1016/j.envpol.2007.09.004. www.scopus.com.

Polycyclic Aromatic Hydrocarbon (PAH)	Abbreviation	No. of Rings	BH04 (0.5-1.0 foot)	BH06 (2.0-3.0 feet)	BH07 (0.5-1.0 foot)	BH09 (2.0-3.0 feet)	BH10 (3.0-3.5 feet)	BH10 (6.5-7.0 feet)
Acenaphthene	Ace	3	0.00525	0.0171	0.0214	0.00709	0.00299	0.0214
Acenaphthylene	Acy	3	0.0022	0.00247	0.0221	0.0022	0.0022	0.0221
Anthracene	Ant	3	0.0141	0.0523	0.0958	0.0279	0.0216	0.0642
Benzo(a)anthracene	BaA	4	0.0657	0.182	0.189	0.124	0.0745	0.172
Benzo(a)pyrene	BaP	5	0.0891	0.251	0.348	0.22	0.106	0.243
Benzo(b)fluoranthene	BbB	5	0.125	0.314	0.449	0.234	0.122	0.299
Benzo(g,h,i)perylene	BPer	6	0.0936	0.177	0.455	0.176	0.154	0.221
Benzo(k)fluoranthene	BkF	5	0.0401	0.0778	0.145	0.0728	0.0353	0.0918
Chloronaphthalene, 2-		2	0.00475	0.00533	0.0478	0.00474	0.00475	0.0476
Chrysene	Chr	4	0.0655	0.228	0.217	0.119	0.0827	0.168
Dibenzo(a,h)anthracene	dBA	5	0.0181	0.0404	0.0782	0.0361	0.0223	0.0406
Fluoranthene	Flt	4	0.122	0.303	0.287	0.231	0.12	0.339
Fluorene	Flr	3	0.00268	0.0121	0.021	0.00525	0.00369	0.021
Indeno(1,2,3-cd)pyrene	IP	6	0.0673	0.152	0.259	0.128	0.0838	0.166
Methylnaphthalene, 1-		2	0.00457	0.0298	0.046	0.00457	0.00458	0.0459
Methylnaphthalene, 2-		2	0.0049	0.0567	0.0438	0.00434	0.00436	0.0436
Naphthalene	Nap	2	0.00481	0.0598	0.0418	0.00415	0.00416	0.0417
Phenanthrene	Phe	3	0.0494	0.165	0.13	0.0641	0.0339	0.163
Pyrene	Pyr	4	0.135	0.299	0.352	0.269	0.135	0.356

	Diagnostic Ratio Values								
		Pyrogenic							
PAH Ratio	Petrogenic	Fuel Combustion	Coal, Grass, Wood Burning	BH04 (0.5-1.0 foot)	BH06 (2.0-3.0 feet)	BH07 (0.5-1.0 foot)	BH09 (2.0-3.0 feet)	BH10 (3.0-3.5 feet)	BH10 (6.5-7.0 feet)	Result
Pyrogenic Index*	>1	<1		0.13	0.20	0.17	0.09	0.09	0.21	Pyrogenic
Total Index**	<4	>4		5.91	5.88	7.69	6.74	7.44	6.57	Pyrogenic
Flt / (Flt + Pyr)	<0.4	0.4-0.5	>0.5	0.47	0.50	0.45	0.46	0.47	0.49	Pyrogenic
IP / (IP + BPer)	<0.2	0.2-0.5	>0.5	0.42	0.46	0.36	0.42	0.35	0.43	Pyrogenic
BaA/(BaA + Chr)	<0.2	>0.35	0.2-0.35	0.50	0.44	0.47	0.51	0.47	0.51	Pyrogenic
Ant/(Ant + Phe)	<0.1	>0.1		0.10	0.09	0.14	0.10	0.08	0.12	Mixed

Notes:

* = Σ of Ace, Acy, Ant, Flr, Nap, Phe / Σ of BaA, BaP, Chr, Flt, and Pyr

** = (Flt/(Flt+Pyr))/0.4 + (Ant/(Ant+Phe))/0.1+(BaA/(BaA+Chr))/0.2

APPENDIX E

Data Validation Reports

DATA VALIDATION WORKSHEET

GENERAL INFORMATION:

Lab Name:	Pace Analytical
Lab SDG/Project/Work Order:	L1265434
Project Name:	130 East Sprague Avenue Phase II ESA Spokane, Washington
Stantec Project Number:	185751194
Client:	City of Spokane
Validator Name:	Sarah Von Raesfeld
Date of Validation:	October 20, 2020

SAMPLE INFORMATION:

Number of Samples:	15
Matrix:	13 Soil and 2 QC Water
Number of Trip Blanks:	One
Number of Equipment Blanks:	One
Number of Field Duplicates	One
Date of Sample Collection:	September 17, 2020

Sample Name:	Analyses:	Batch:
SR-BH01SO 1.5-2.0	VOCs (SW8260D)	WG1552502
	GRO (NWTPH-Gx)	WG1551593
	DRO/RRO (NWTPH-Dx)	WG1551543
	PAHs (SW8270E SIM)	WG1551698
	RCRA Metals (SW6020B)	WG1550321
	Mercury (SW7471B)	WG1550155
SR-BH02SO 0.5-1.0	VOCs (SW8260D)	WG1552502
	GRO (NWTPH-Gx)	WG1551375
	DRO/RRO (NWTPH-Dx)	WG1551543
	PAHs (SW8270E SIM)	WG1551698
	RCRA Metals (SW6020B)	WG1550321
	Mercury (SW7471B)	WG1550155
SR-BH03SO 0.5-1.0	VOCs (SW8260D)	WG1552502
	GRO (NWTPH-Gx)	WG1551375
	DRO/RRO (NWTPH-Dx)	WG1551543
	PAHs (SW8270E SIM)	WG1551698
	RCRA Metals (SW6020B)	WG1550321
	Mercury (SW7471B)	WG1550155
SR-BH04SO 0.5-1.0	VOCs (SW8260D)	WG1552753; WG1552515
	GRO (NWTPH-Gx)	WG1551598
	DRO/RRO (NWTPH-Dx)	WG1551543
	PAHs (SW8270E SIM)	WG1551698
	RCRA Metals (SW6020B)	WG1550321
	Mercury (SW7471B)	WG1550165
SR-BH05SO 2-2.5	VOCs (SW8260D)	WG1552972
	GRO (NWTPH-Gx)	WG1551375
	DRO/RRO (NWTPH-Dx)	WG1551543
	PAHs (SW8270E SIM)	WG1551517
	RCRA Metals (SW6020B)	WG1550321
	Mercury (SW7471B)	WG1550155

Sample Name:	Analyses:	Batch:
SR-BH06SO 2-3	VOCs (SW8260D)	WG1552502
	GRO (NWTPH-Gx)	WG1551375
	DRO/RRO (NWTPH-Dx)	WG1551543
	PAHs (SW8270E SIM)	WG1551698
	RCRA Metals (SW6020B)	WG1550321
	Mercury (SW7471B)	WG1550155
SR-BH07SO 0.5-1.0	VOCs (SW8260D)	WG1552753
	GRO (NWTPH-Gx)	WG1551593
	DRO/RRO (NWTPH-Dx)	WG1551543
	PAHs (SW8270E SIM)	WG1551698
	RCRA Metals (SW6020B)	WG1550321
	Mercury (SW7471B)	WG1550168
SR-BH08SO 0.5-1.0	VOCs (SW8260D)	WG1552753; WG1552515
	GRO (NWTPH-Gx)	WG1551598
	DRO/RRO (NWTPH-Dx)	WG1551543
	PAHs (SW8270E SIM)	WG1551698
	RCRA Metals (SW6020B)	WG1550321
	Mercury (SW7471B)	WG1550165
SR-BH09SO 2-3	VOCs (SW8260D)	WG1552753; WG1552515
	GRO (NWTPH-Gx)	WG1551593
	DRO/RRO (NWTPH-Dx)	WG1551543
	PAHs (SW8270E SIM)	WG1551698
	RCRA Metals (SW6020B)	WG1550321
	Mercury (SW7471B)	WG1550168
SR-BH10SO 3-3.5	VOCs (SW8260D)	WG1552502
	GRO (NWTPH-Gx)	WG1551593
	DRO/RRO (NWTPH-Dx)	WG1551543
	PAHs (SW8270E SIM)	WG1551698
	RCRA Metals (SW6020B)	WG1550321
	Mercury (SW7471B)	WG1550168
SR-BH10SO 6.5-7	VOCs (SW8260D)	WG1552753; WG1552515
	GRO (NWTPH-Gx)	WG1551593
	DRO/RRO (NWTPH-Dx)	WG1551543
	PAHs (SW8270E SIM)	WG1551698
	RCRA Metals (SW6020B)	WG1550321
	Mercury (SW7471B)	WG1550168
SR-FD01SO	VOCs (SW8260D)	WG1552502
	GRO (NWTPH-Gx)	WG1551375
	DRO/RRO (NWTPH-Dx)	WG1551501
	PAHs (SW8270E SIM)	WG1551517
	RCRA Metals (SW6020B)	WG1550321
	Mercury (SW7471B)	WG1550155
SR-EB01	VOCs (SW8260D)	WG1551118
	GRO (NWTPH-Gx)	WG1551428
	DRO/RRO (NWTPH-Dx)	WG1548353
	PAHs (SW8270E SIM)	WG1551421
	RCRA Metals (SW6020B)	WG1549469
	Mercury (SW7470A)	WG1548375
SR-TB01	VOCs (SW8260D)	WG1551118

GENERAL DATA VALIDATION:

Case Narrative:
The laboratory case narrative identified holding time exceedances, method blank detections, and spike recoveries that did not meet laboratory acceptance criteria. The laboratory non-conformances are discussed in the following sections.

Chain of Custody:
The COC was complete, all requested analyses were performed.

Sample Receipt:
The samples were received within the acceptable temperature range of 0° - 6° C.

Holding Times:
PAHs were analyzed outside of the recommended holding time in sample SR-EB01. All of the PAH results were qualified as estimated non-detects (UJ).
All other samples were analyzed within the recommended holding time.

Trip Blank Review:
There were no VOCs detected above the MDL in trip blank sample SR-TB01.

Equipment Blank Review:
There were no analytes detected above the MDL in equipment blank sample SR-EB01.

Surrogates:
The TPH surrogate percent recovery exceeded the upper acceptance limit for o-terphenyl in sample SR-BH07SO 0.5-1.0. DRO and RRO were qualified as estimated with a potential positive bias (J+).

Data were not qualified in cases where surrogate recoveries were outside of acceptance limits due to sample dilutions.

Elevated Reporting Limits:
TPH: Seven samples were analyzed for GRO at 25x and 27.5x dilution factors and two samples were analyzed for DRO/RRO at a 4x dilution factor due to the nature of the sample matrix.

Metals: Twelve soil samples were analyzed 5x dilution factors.

Laboratory MDLs and MRLs were raised accordingly.

Compound Identification:
tert-Butyl alcohol results were qualified as estimated (J) in samples SR-BH02SO 0.5-1.0, SR-BH03SO 0.5-1.0, and SR-BH07SO 0.5-1.0 because the laboratory indicated that the compound identification was acceptable but the reported concentration was approximate.

PER ANALYSES:

Volatile Organic Compounds, Methods 8260D (Batches WG1551118, WG1552502, WG1552515, WG1552753, and WG1552972)

Method Blanks:
Iodomethane was detected at 0.582 µg/L in the method blank for batch WG1551118. Iodomethane was not detected in the associated samples, no data were qualified.

Total xylenes was detected at 0.000627 mg/kg in the method blanks for batch WG1552502 and WG1552753. Total xylenes was detected between the MDL and MRL in samples SR-FD01SO, SR-BH02SO 0.5-1.0, SR-BH01SO 1.5-2.0, SR-BH03SO 0.5-1.0, SR-BH06SO 2-3, SR-BH07SO 0.5-1.0 and SR-BH10SO 3-3.5. The results were qualified as not detected at the MRL (UB).

Laboratory Control Sample:
The LCS percent recoveries were greater than the upper acceptance limit for trichloroethene, bromochloromethane, tetrachloroethene, and 1,2-dichloroethane in batch WG1551118. The VOCs were not detected in the associated samples, no data were qualified.

The LCS/LCSD RPD exceeded the control limit for ethanol in batches WG1552502 and WG1552753. Ethanol was detected in samples SR-FD01SO and SR-BH01SO 1.5-2.0, the results were qualified as estimated (J).
Matrix Spike/Matrix Spike Duplicate: Project sample SR-BH01SO 1.5-2.0 was analyzed as the MS/MSD. The MS/MSD percent recoveries and/or RPDs were greater than the control limit for 59 VOCs. Detections of acetone, benzene, ethanol, toluene, 1,2,4-trimethylbenzene, and p-isopropyltoluene were qualified as estimated (J) due to RPDs that exceeded the control limit. 2-Butanone, ethanol, and acetone were qualified as estimated with a potential positive bias (J+) due to high MS and/or MSD percent recoveries, and chloromethane was qualified as an estimated non-detect (UJ) due to low MS/MSD percent recoveries.
Gasoline Range Organics by Method NWTPH-Gx (Batches WG1551375, WG1551593 and WG1551428)
Method Blanks: No analytes were detected above the MDL in the laboratory method blanks. No qualifiers are needed.
Laboratory Control Sample: The LCS percent recoveries were within acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: Project sample SR-BH01SO 1.5-2.0 was analyzed as the MS/MSD. Spike recoveries and RPDs were within acceptance limits. No qualifiers are needed.
Diesel Range Organics and Residual Range Organics by Method NWTPH-Dx (Batches WG4518353, WG1551501, and WG1551543)
Method Blanks: No analytes were detected above the MDL in the laboratory method blank. No qualifiers are needed.
Laboratory Control Sample/Laboratory Control Sample Duplicate: The LCS percent recovery was within the acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: Project sample SR-BH01SO 1.5-2.0 was analyzed as the MS/MSD. Spike recoveries and RPDs were within acceptance limits. No qualifiers are needed.
Polycyclic Aromatic Hydrocarbons, Method 8270E SIM (Batches WG1551421, WG1551698 and WG1551517)
Method Blanks: No analytes were detected above the MDL in the laboratory method blank. No qualifiers are needed.
Laboratory Control Sample/Laboratory Control Sample Duplicate: The LCS/LCSD percent recoveries and/or RPDs exceeded the acceptance limits for compounds in batch WG1551421. There were no PAHs detected in the associated sample, no qualifiers were needed. All other spike recoveries and RPDs were within the acceptance limits.
Matrix Spike/Matrix Spike Duplicate: Project sample SR-BH01SO 1.5-2.0 was analyzed as the MS/MSD. Spike recoveries and RPDs were within acceptance limits. No qualifiers are needed.

Metals, Method 6020B (Batches WG1549469 and WG1550321)
Method Blanks: No analytes were detected above the MDL in the laboratory method blanks. No qualifiers are needed.
Laboratory Control Sample/Laboratory Control Sample Duplicate: The LCS percent recoveries were within the acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: Project sample SR-BH01SO 1.5-2.0 was analyzed as the MS/MSD. Spike recoveries and RPDs were within acceptance limits. No qualifiers are needed.
Mercury, Methods 7470A and 7471B (Batches WG1548375, WG1550155, WG1550168. and WG1550165)
Method Blanks: No analytes were detected above the MDL in the laboratory method blanks. No qualifiers are needed.
Laboratory Control Sample/Laboratory Control Sample Duplicate: The LCS percent recoveries were within the acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: Project sample SR-BH01SO 1.5-2.0 was analyzed as the MS/MSD. Spike recoveries and RPDs were within acceptance limits. No qualifiers are needed.

FIELD DUPLICATE REVIEW:
One field duplicate pair was collected. Sample SR-FD1SO is a field duplicate of sample SR-BH01SO 1.-2.0. RPDs are calculated between the results of the original and field duplicate samples for constituents detected in both samples at concentrations exceeding five-times their respective MRLs. Constituents meeting criteria are tabulated below. Results for barium and p-isopropyltoluene were qualified as estimated (J) in both the parent and field duplicate samples due to calculated RPDs that exceeded the 50% project limit.

Sample Name	Constituent	Result	Reporting Limit	Units	RPD
SR-FD1SO	Acetone	0.430	0.0511	mg/Kg	18%
SR-BH01SO 1.5-2.0	Acetone	0.299	0.0511	mg/Kg	
SR-FD1SO	Barium	44.0	2.56	mg/Kg	66%
SR-BH01SO 1.5-2.0	Barium	66.6	2.56	mg/Kg	
SR-FD1SO	p-Isopropyltoluene	0.0190	0.00102	mg/Kg	99%
SR-BH01SO 1.5-2.0	p-Isopropyltoluene	0.00600	0.00102	mg/Kg	
SR-FD1SO	Arsenic	6.38	1.02	mg/Kg	14%
SR-BH01SO 1.5-2.0	Arsenic	8.51	1.02	mg/Kg	

DETERMINATION:
The data in this work order have been validated. All data that have not been rejected ("R" flagged) are usable as qualified:

Sample ID	Method	Analyte	Original Result	Validated Result	Units	Reason Code
SR-FD01SO	SW6020	Barium	44.0	44.0 J	mg/Kg	FD RPD > CL
SR-FD01SO	SW/8260D	Xylenes, Total	0.000860 BJ	0.00307 UB	mg/Kg	MB Detection
SR-FD01SO	SW8260D	Ethanol	0.0886 JJ3	0.0886 J	mg/Kg	LCS/LCSD RPD > CL
SR-FD01SO	SW8260D	Isopropyltoluene, p-	0.0190	0.0190 J	mg/Kg	FD RPD > CL
SR-BH02SO 0.5-1.0	SW8260D	Xylenes, Total	0.000651 BJ	0.00308 UB	mg/Kg	MB Detection
SR-BH02SO 0.5-1.0	SW8260D	Tert-Butyl Alcohol	0.00268 JJ0	0.00268 J	mg/Kg	Compound Identification
SR-BH01SO 1.5-2.0	SW6020	Barium	66.6 O1	66.6 J	mg/Kg	FD RPD > CL
SR-BH01SO 1.5-2.0	SW8260D	Toluene	0.0121 J3V3	0.0121 J	mg/Kg	MS/MSD RPD > CL
SR-BH01SO 1.5-2.0	SW8260D	Xylenes, Total	0.00117 BJJ3V3	0.00307 UB	mg/Kg	MB Detection
SR-BH01SO 1.5-2.0	SW8260D	Ethanol	0.0991 JJ5V3	0.0991 J+	mg/Kg	LCS/LCSD %R > UAL; LCS/LCSD RPD > CL
SR-BH01SO 1.5-2.0	SW8260D	Acetone	0.299 J5V3	0.299 J+	mg/Kg	LCS/LCSD %R > UAL; MS/MSD RPD > CL
SR-BH01SO 1.5-2.0	SW8260D	Benzene	0.000708 JJ3V3	0.000708 J	mg/Kg	MS/MSD RPD > CL
SR-BH01SO 1.5-2.0	SW8260D	Chloromethane	0.000665 UJ6	0.000665 UJ	mg/Kg	MS/MSD %R < LAL
SR-BH01SO 1.5-2.0	SW8260D	Methyl Ethyl Ketone	0.00759 JJ5V3	0.00759 J+	mg/Kg	MS %R > UAL
SR-BH01SO 1.5-2.0	SW8260D	Trimethylbenzene, 1,2,4-	0.000297 JJ3V3	0.000297 J	mg/Kg	MS/MSD RPD > CL
SR-BH01SO 1.5-2.0	SW8260D	Isopropyltoluene, p-	0.00600 J3V3	0.00600 J	mg/Kg	FD RPD > CL
SR-BH03SO 0.5-1.0	SW8260D	Xylenes, Total	0.000700 BJ	0.00376 B	mg/Kg	MB Detection
SR-BH03SO 0.5-1.0	SW8260D	Tert-Butyl Alcohol	0.00588 JJ0	0.00588 J	mg/Kg	Compound Identification
SR-BH06SO 2-3	SW8260D	Xylenes, Total	0.000781 BJ	0.00433 UB	mg/Kg	MB Detection
SR-BH10SO 3-3.5	SW8260D	Xylenes, Total	0.000564 BJ	0.00306 UB	mg/Kg	MB Detection
SR-BH07SO 0.5-1.0	NWTPH-DX	DRO	352 J	352 J+	mg/Kg	SUR %R > UAL
SR-BH07SO 0.5-1.0	NWTPH-DX	RRO	2870	2870 J+	mg/Kg	SUR %R > UAL
SR-BH07SO 0.5-1.0	SW8260D	Xylenes, Total	0.000518	0.00308 UB	mg/Kg	MB Detection
SR-BH07SO 0.5-1.0	SW8260D	Tert-Butyl Alcohol	0.00598 J0	0.00598 J	mg/Kg	Compound Identification
SR-EB01	SW8270E-SIM	Anthracene	0.0190 UJ3J4T8	0.0190 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Pyrene	0.0170 UJ3J4T8	0.0170 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Benzo(g,h,i)perylene	0.0180 UJ4T8	0.0180 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Indeno(1,2,3-cd)pyrene	0.0180 UJ3J4T8	0.0180 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Benzo(b)fluoranthene	0.0170 UJ3J4T8	0.0170 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Fluoranthene	0.0110 UJ3J4T8	0.0110 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Benzo(k)fluoranthene	0.0200 UJ3J4T8	0.0200 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Acenaphthylene	0.0170 UJ3J4T8	0.0170 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Chrysene	0.0180 UJ3J4T8	0.0180 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Benzo(a)pyrene	0.0180 UJ3J4T8	0.0180 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Dibenzo(a,h)anthracene	0.0180 UJ4T8	0.0180 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Benzo(a)anthracene	0.0200 UJ3J4T8	0.0200 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Acenaphthene	0.0190 UJ3J4T8	0.0190 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Phenanthrene	0.0180 UJ3J4T8	0.0180 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Fluorene	0.0170 UJ3J4T8	0.0170 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Methylnaphthalene, 1-	0.0200 UJ3J4T8	0.0200 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Naphthalene	0.128 UJ3J4T8	0.128 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Methylnaphthalene, 2-	0.0280 UJ3J4T8	0.0280 UJ	µg/L	HT Exceeded
SR-EB01	SW8270E-SIM	Chloronaphthalene, 2-	0.0120 UJ3J4T8	0.0120 UJ	µg/L	HT Exceeded

µg/L – micrograms per liter
%R – percent recovery
CL – control limit
FD – field duplicate
HT – holding time
LAL – lower acceptance limit
LCS – laboratory control sample
LCSD – laboratory control sample duplicate
MB – method blank
mg/kg – milligrams per kilogram
MS – matrix spike
MSD – matrix spike duplicate
RPD – relative percent difference
RRO – residual range organics
SIM – selective ion monitoring
SUR – surrogate
UAL – upper acceptance limit

NOTES:

Laboratory assigned flags (J). Analytical results flagged by the laboratory as estimated values in the final laboratory report are assigned a qualifier of **J** to denote that the result is an estimated value based on the analyses. This qualifier is not one that is assigned based on data validation review or quality of data. In the case where the laboratory reports sample results between the MDL and MRL, the resulting data was flagged with **J** to denote that the result is estimated.

Data validation assigned qualifiers (U, UJ, J, R). The following qualifiers may be assigned to data in this data set based on the results of the data validation procedure (documented on this form). In general data qualifiers are defined as follows:

- U Indicates the analyte was analyzed for, but was not detected above the reported sample quantitation limit (MRL, or MDL if reported). Results assigned this qualifier are considered undetected at the MRL, or MDL if reported.

- UJ Indicates the analyte was not detected above the quantitation limit or MRL (MDL, if reported); however, the MRL (MDL, if reported) is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. Results assigned this qualifier are considered undetected at the estimated MRL (MDL, if reported).

- J Indicates the analyte was positively indentified; however, the associated numerical value is the approximate concentration of the analyte in the sample. Results assigned this qualifier as considered and detected at an estimated value.

- R Indicates the presence or absence of the analyte cannot be confirmed due to serious laboratory deficiencies in the ability to analyze the sample and meet quality control criteria. Results assigned this qualifier are rejected and considered unusable.

REFERENCES:

EPA. 2002. *Guidance on Environmental Data Verification and Data Validation, EPA QA/G-8.* USEPA. November 2002.

EPA. 2017. *USEPA National Functional Guidelines for Superfund Inorganic Methods Data Review, EPA-540-R-2017-002*. Office of Superfund Remediation and Technology Innovation. January.

EPA. 2017. United States Environmental Protection Agency (*USEPA) National Functional Guidelines for* Superfund Organic Methods Data Review. *EPA-540-R-2017-001*. Office of Superfund Remediation and Technology Innovation. January.

APPENDIX F

NVL Hazardous Materials Survey Report

NVL

INDUSTRIAL HYGIENE SERVICES

LABORATORY + MANAGEMENT + TRAINING

Hazardous Materials Survey

130 E Sprague Avenue
Spokane, WA 99202

Prepared For
Mr. Cyrus Gorman
Stantec Consulting Services
601 SW 2nd Avenue, 14th Floor
Portland, OR 97204

Project Number:	2020-0614
Inspection Date:	September 18, 2020
Report Date:	September 25, 2020
Inspected By	Tanveer Khan & Derrick Gallard
AHERA Certification	# 178610 / 175015
Certification Expiration Date	July 30, 2021 / October 8, 2020

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1.0 SCOPE OF WORK

A Hazardous Materials Survey was conducted at the commercial building and detached 3-sided covered garage located at 130 E. Sprague Avenue, Spokane, WA 99202 on September 18, 2020.

Tanveer Khan (an AHERA Building Inspector / WA-Commerce Lead Risk Assessor) and Derrick Gallard (an AHERA Building Inspector / WA-Commerce Lead Inspector), conducted this survey at the request of Mr. Cyrus Gorman of Stantec Consulting Services.

The purpose of this survey was to identify suspect asbestos containing building materials, lead paint coatings, and Mercury (Hg) / PCB containing devices associated with the structure.

Due to occupancy, destructive sampling methods were not utilized to collect samples of suspect building materials. No soft/limited demolition was performed during this inspection. Hidden materials may exist within the structure, and all suspect materials must be treated as hazardous until testing proves otherwise.

This survey constitutes a survey of accessible suspect ACM in the project area and was conducted in accordance with:

The National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 Code of Federal Regulations (CFR) Part 61, Subpart M requires a survey by an accredited asbestos inspector prior to demolition of a structure.

This asbestos survey also satisfies the requirements for “Good Faith” inspection outlined in Washington Administrative Code (WAC) 296-62-07721 (2) Communication of hazards, which requires the owner of a structure to provide contractors with a written report identifying the asbestos-containing materials expected to be disturbed during renovation or demolition.

The asbestos survey section is written to comply with the AHERA asbestos sampling procedure as stated in 40 CFR 763.86. This protocol is required under the Spokane Regional Clean Air Agency (SRCAA Regulation I, Article IX, section 9.03) for all asbestos surveys prior to a building renovation/demolition.

Recommendations have been included for compliance with WAC 296-155-176 “Lead in Construction” and WAC 173-090 “Waste Disposal Regulations”. The Lead in Construction regulations are designed to protect workers from lead hazards during construction and demolition activities.

Fluorescent light tubes, HID lamps, and thermostats contain Mercury (Hg) are classified as universal waste by the EPA and Washington Department of Ecology. Recommendations have been included for compliance with WAC 173-303-573, “The Universal Waste Rule for Dangerous Waste”.

A floor plan indicating locations of samples collected by NVL personnel has been included in **Appendix A**.

2.0 SURVEY METHOD

Asbestos Survey Method

The NVL Labs field inspector is an Asbestos Building Inspector, certified under the requirements of the United States Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA) regulation 40 CFR 763, Subpart E. A copy of his certificate is provided in Appendix C.

The AHERA Guidelines dictate the following:

The inspector must determine *homogenous areas*, which are defined as an area of Thermal System Insulation, Surfacing Material, or Miscellaneous Material that is uniform in texture and color.

Once homogenous areas have been determined, the inspector must determine whether or not material is friable or non-friable. ***Friable*** is defined as a material, that when dry, can be crushed, pulverized, or reduced to dust using hand pressure, and ***non-friable*** material is defined as a material, that when dry, *cannot* be crushed pulverized or reduced to dust using hand pressure. Materials normally defined as non-friable can become friable by definition if sufficiently damaged.

Once friability has been determined, the materials suspected of containing asbestos are divided into one of three categories: Thermal System Insulation (TSI), Surfacing Material (SM), or Miscellaneous Material (MM). Generally speaking, TSI and SM are considered to be friable, with the exception of TSI where the structural integrity of the insulation is intact and the protective out wrap is undamaged.

Once materials are divided into one of the categories, samples are collected in the following manner:

Friable Thermal System Insulation:

1. Inspector shall collect three (3) randomly distributed samples;

2. Inspector shall collect a minimum of one sample of each TSI materials that appears to have been used as a patch, as long as the patch is less than 6 linear feet or 6 square feet;

3. Inspector shall collect in a manner sufficient, samples from areas of TSI applied to fittings, tees, and joints.

Friable Surfacing Material:

1. Inspector shall collect samples in random manner of surfacing materials as follows:

    a. Collect three bulk samples from an area believed to be homogeneous (defined as a material that appears to be the same or similar and was installed at the same time) that is 1,000 square feet or less in size;

    b. Collect five bulk samples from an area believed to be homogeneous that is greater than 1,000 square feet in size, but less than 5,000 square feet in size;

    c. Collect seven bulk samples from an area believed to be homogeneous that is greater than 5,000 square feet.

2.0 SURVEY METHOD (continued)

Miscellaneous Materials:

1. Inspector shall collect samples in a manner and number sufficient to determine if the material is asbestos-containing or not.

All Materials Determined to Be Non-Friable:

1. Inspector shall collect samples in a manner and number sufficient to determine if the material is asbestos containing or not.

In addition to these sampling requirements, the AHERA Building Inspector is required to assess the following of each material that is found to be positive for asbestos:

1. The condition of each material;
2. Accessibility;
3. Possibility for air erosion.

Once the samples have been collected, they must be analyzed by an accredited laboratory, and they must be analyzed using polarized light microscopy methods, commonly referred to as EPA Method 600/R-93/116.

NVL Labs collected samples and obtained analytical data for suspect asbestos-containing materials identified in the building. Once collected, each bulk sample was sealed in an unadulterated plastic bag to eliminate the possibility of cross-contamination. "Chain-of-Custody" tracking was followed to maintain sample integrity during handling and data reporting at NVL Labs.

A walk-through inspection of all accessible areas of the structures was performed to identify potential asbestos-containing materials. The walk-through inspection included a review of the internal and external aspects of the structures. The locations and types of potential asbestos-containing materials were noted.

Homogeneous Materials

Homogeneous materials are defined as an area of asbestos-containing material or presumed asbestos-containing material which appears similar throughout in terms of color, texture, and date of material application. The report listing for homogenous materials will appear as follows:

Sample Number	Material Description by Layer	Location	Asbestos	Quantity	Friable
#	Layer 1 is not asbestos containing **Layer 2 is asbestos containing**	**Location description**	1. % **2. %**	**"X" LF/ft^2**	**Yes/No**

Lead Survey Method

NVL Labs collected representative samples of paint from the interior and exterior of the building within the project scope. Once collected, each bulk sample was sealed in an unadulterated plastic bag to eliminate the possibility of cross-contamination. "Chain-of-Custody" tracking was followed to maintain sample integrity during handling and data reporting at NVL Labs. Sampling was representative of all layers of paint. Copies of laboratory reports and field data forms for lead paint are in Appendix B.

2.0 SURVEY METHOD (continued)

TCLP Sampling Method

A representative composite sample of the proportionate components which make up the areas to be demolished was collected and analyzed according to ASTM Standard. E 1908-97, as suggested by the Washington State Department of Ecology. Waste Characterization Plan number three of this standard, “Composite Sample and Demolish", was used to access the lead (Pb) content of the total debris.

3.0 LABORATORY INFORMATION

Laboratory Analysis: Asbestos

In accordance with 40 CFR Chapter 1 (7-01-07 Edition) Part 763, Subpart E, Appendix E, asbestos samples are analyzed at NVL Labs using polarized light microscopy (PLM) with dispersion staining. If samples are not homogeneous, then sub-samples of the components are analyzed separately. All bulk samples are analyzed using EPA Method 600/R-93/116 with the following measurement uncertainties for reported % asbestos: 1%=0-3%, 5%≥1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%. Only materials containing more than 1% total asbestos were classified as “asbestos-containing” based on EPA, state, and local regulations.

Findings for samples containing more than one separable layer of materials are reported for each layer. The asbestos concentration in the sample is determined by visual estimation.

NVL Labs is accredited by the National Institute of Standards and Technology (NIST) under the National Volunteer Laboratory Accreditation Program (NVLAP) program for bulk asbestos fiber analysis; *NVLAP Lab Code 102063-0*

Laboratory Analysis: Lead (Pb)

Samples are analyzed for the presence of inorganic lead using atomic absorption spectroscopy (AAS) in accordance with method EPA 3051/7000B. This method reports results in milligrams per kilogram (mg/kg) or its equivalent, parts per million (ppm).

Laboratory Accreditation

Professional accreditations for NVL Laboratories, Inc. include the following:

NVL Laboratories, Inc. is currently accredited by the National Institute of Standards and Technology (NIST) under the National Volunteer Laboratory Accreditation Program (NVLAP) program for bulk asbestos fiber analysis.

NVLAP Lab Code 102063-0

NVL Laboratories, Inc. is approved by the American Industrial Hygiene Association (AIHA) Asbestos Analysts Registry (AAR) program for airborne asbestos fiber analysis.

AAR Counter ID 7412

NVL Laboratories, Inc. is currently accredited by the American Industrial Hygiene Association (AIHA) under the Industrial Hygiene Laboratory Accreditation Program (IHLAP). The IHLAP program is designed specifically for laboratories involved in analyzing samples to evaluate workplace exposure.
IHLAP Certification Number 563

4.0 BUILDING DESCRIPTION

Parcel Number	35202.0606
Year of Construction	1958
Building Square Footage	6,420 ft^2
County	Spokane

General Building Type

This is a multi-story commercial structure of masonry construction.

Primary External Components

The exterior of the structure has metal and CMU block siding.

Foundation Type

The structure has on-grade concrete foundation.

Roofing Material(s)

The structure has tri-tab shingle, rolled asphaltic sheeting, and vinyl membrane / built-up roofing.

Window Type(s)

The structure has aluminum and vinyl framed windows with caulking / glazing.

Flooring

The structure has laminate wood, sheet vinyl and ceramic tile flooring.

Thermal Systems with Insulation

The structure is heated through a forced air heating system with no suspect thermal insulation.

Finishing

The structure is finished with drywall, wall panels, acoustic ceiling panels, and ceiling tiles.

5.0 FINDINGS

Inventory of Suspect Asbestos-Containing Materials

Sample Number	Material Description by Layer	Location	Asbestos	Quantity**	Friable*
2020-0614-1-1	1: Texture with paint 2: Drywall	Floor 1 - reception, wall	1: ND 2: ND		
2020-0614-1-2	1: Texture with paint 2: Drywall	Floor 1 - reception, wall	1: ND 2: ND		
2020-0614-1-3	1: Texture with paint 2: Drywall	Floor 1 - office 1, wall	1: ND 2: ND		
2020-0614-1-4	1: Texture with paint 2: Drywall	Floor 1 - office 2, wall	1: ND 2: ND		
2020-0614-1-5	1: Texture with paint 2: Drywall	Floor 1 - restroom 2, wall	1: ND 2: ND		
2020-0614-3-1	1: Joint compound with paint 2: Drywall	Floor 1 - office 2, wall joint	1: ND 2: ND		
2020-0614-3-2	1: Joint compound 2: Drywall	Floor 2 - storage, wall joint	1: ND 2: ND		
2020-0614-3-3	**Residual backing with mastic**	**Floor 1 - reception / office 1 & 2, floor (under laminate wood)**	**73%**	**800 ft^2**	**Yes**
2020-0614-3-4					
2020-0614-3-5	Wallpaper with mastic	Floor 2 - storage, walls	ND		
2020-0614-3-6	Wallpaper with mastic		ND		
2020-0614-3-7	Residual brown mastic with paint	Floor 2 - storage, wall base	ND		
2020-0614-3-8	Residual brown mastic with paint		ND		
2020-0614-3-9	1: Black mastic on wood 2: Wood	Floor 2 - storage, floor (under laminate)	1: ND 2: ND		
2020-0614-3-10	1: Black mastic on wood 2: Wood		1: ND 2: ND		

ND None Detected

5.0 FINDINGS (continued)

Sample Number	Material Description by Layer	Location	Asbestos	Quantity**	Friable*
2020-0614-3-11	1: Gray vinyl cove base 2: White mastic 3: Brown / yellow mastic	Floor 2 - kitchen, wall base	1: ND 2: ND 3: ND		
2020-0614-3-12	1: Gray vinyl cove base 2: Yellow / brown mastic	Floor 2 - kitchen, wall base	1: ND 2: ND		
2020-0614-3-13	1: Gary sheet vinyl 2: Gray backing with mastic	**Floor 2 - kitchen, floor**	1: ND 2: ND	**100 ft^2**	**Yes**
2020-0614-3-14	3: Brown sheet vinyl **4: Tan backing with mastic**		3: ND **4: 44%**		
2020-0614-3-15	White caulking with paint	Floor 2 - kitchen / restroom 1, interior window perimeter	ND		
2020-0614-3-16	White caulking with paint		ND		
2020-0614-3-17	Acoustic ceiling panel with paint	Floor 2 - office 3, false ceiling	ND		
2020-0614-3-18	Acoustic ceiling panel with paint	Floor 2 - office 4, false ceiling	ND		
2020-0614-3-19	1: White powdery material with paint 2: Ceiling tile with paint 3: Black mastic on paper 4: Fiberglass insulation	Floor 2 - office 3, ceiling (above false ceiling)	1: ND 2: ND 3: ND 4: ND		
2020-0614-3-20	1: Ceiling tile with paint 2: Black mastic on paper 3: Fiberglass insulation	Floor 2 - office 4, ceiling (above false ceiling)	1: ND 2: ND 3: ND		
2020-0614-3-21	1: Black mastic on paper 2: Fiberglass insulation	Floor 2 - warehouse 2, walls / ceiling cavity	1: ND 2: ND		
2020-0614-3-22	1: Black mastic on paper 2: Fiberglass insulation		1: ND 2: ND		
2020-0614-3-23	Black mastic (glue dots)	Floor 2 - warehouse 2, east wall	ND		
2020-0614-3-24	Black mastic (glue dots)		ND		
2020-0614-3-25	**Gray window glazing**	**Floor 2 - warehouse 1 storage, aluminum window**	**4%**	**15 LF (1 window)**	**No**
2020-0614-3-26					

ND None Detected

* The friability of this material was determined at the time of this inspection. Subsequent activities such as demolition, renovation, or abatement may affect the friability of this material.

** These quantities are only an estimate of the asbestos containing material discovered on site. Accuracy of these estimates must be verified by the asbestos abatement contractor on site.

5.0 FINDINGS (continued)

Sample Number	Material Description by Layer	Location	Asbestos	Quantity**	Friable*
2020-0614-3-27	Fiberboard panel with paint	Floor 2 - warehouse 1 storage, ceiling	ND		
2020-0614-3-28	Fiberboard panel with paint		ND		
2020-0614-3-29	CMU block / mortar with paint	Exterior siding	ND		
2020-0614-3-30	CMU block / mortar with paint		ND		
2020-0614-3-31	Black asphaltic sheeting / black mastic	Floor 2 - warehouse 2 - flat roof	ND		
2020-0614-3-32	1: Black asphaltic sheeting 2: Black asphaltic mastic 3: Black asphaltic sheeting		1: ND 2: ND 3: ND		
2020-0614-3-33	1: White vinyl membrane 2: White foamy material with foil	Floor 1 office area - flat roof	1: ND 2: ND		
2020-0614-3-34	1: White vinyl membrane 2: White foamy material with foil		1: ND 2: ND		
2020-0614-3-35	1: Silver paint with white vinyl membrane 2: Black asphaltic roofing 3: Black asphaltic roofing	**Floor 2 - warehouse 1, flat roof**	1: ND 2: ND 3: ND	**2000 ft^2**	**No**
2020-0614-3-36	**4: Black asphaltic mastic** 5: White foamy material with foil		**4: 6%** 5: ND		
2020-0614-3-37	1: Tri-tab asphaltic shingle 2: Black asphaltic mastic	**Floor 2 - warehouse 1, gable roof**	1: ND 2: ND	**2700 ft^2**	**No**
2020-0614-3-38	**3: Black asphaltic material** 4: Black felt		**3: 61%** 4: ND		

ND None Detected

* The friability of this material was determined at the time of this inspection. Subsequent activities such as demolition, renovation, or abatement may affect the friability of this material.

** These quantities are only an estimate of the asbestos containing material discovered on site. Accuracy of these estimates must be verified by the asbestos abatement contractor on site.

Any suspect material(s) not identified above should not be disturbed and should be tested immediately. The suspect material must be treated as asbestos-containing until testing proves otherwise.

5.0 FINDINGS (continued)

Inventory of Suspect Lead-Containing Paint Coatings

Sample Number	Material Description	Location	Lead in mg/kg	Lead in %
2020-0614-Pb-1	White paint on GWB	Interior walls / ceilings	< 49	< 0.0049
2020-0614-Pb-2	**White paint on wood**	**Interior window / door components & trims**	**89**	**0.0089**
2020-0614-Pb-3	**White paint on CMU**	**Exterior walls / siding**	**61**	**0.0061**
2020-0614-Pb-4	**Red paint on concrete**	**Exterior siding, window / door components & trims**	**570**	**0.057**

< Lead content of material analyzed is below the Lower Detection Limit.

Samples in bold contain lead in excess of detectable levels

Mercury

Fifty-eight (58) florescent light tubes were visually identified and assumed to contain Mercury (Hg). This includes HID lamps, and florescent light tubes (including the newer “green tubes” which still contain low levels of Mercury).

Poly Chlorinated Biphenyls (PCB) Light Ballasts

Twenty-nine (29) light ballasts were visually identified and assumed to contain Poly Chlorinated Biphenyls (PCB).

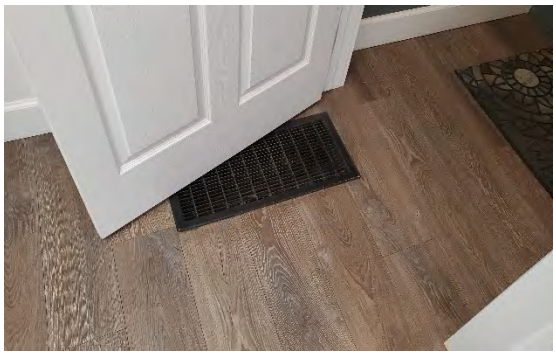
TCLP Sampling

Sample Number	Sample Location	Results in ppm
2020-0614-TCLP	130 E Sprague Avenue, Spokane, WA 99202	< 0.5

6.0 CONCLUSIONS AND RECOMMENDATIONS

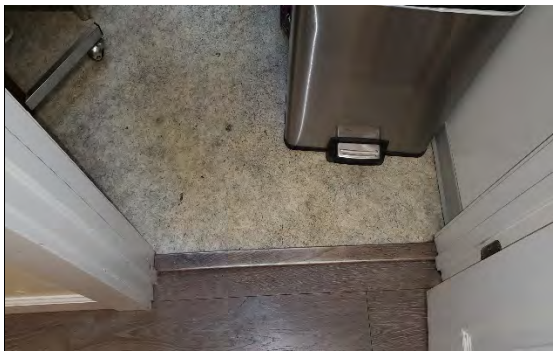
The following is an inventory of asbestos-containing building materials identified during the Hazardous Materials Survey of the subject building:

1. **Residual backing with mastic (Friable)**
   Sample numbers: 2020-0614-3-3 & 3-4



There is approximately 800 square feet of residual backing with mastic located under laminate wood flooring in the reception / office 1, and office 2 on floor 1. The substrate is concrete.

2. **Brown sheet vinyl backing / mastic (Friable)**
   Sample numbers: 2020-0614-3-13 & 3-14



There is approximately 100 square feet asbestos containing tan backing with mastic associated with brown sheet vinyl located under gray sheet vinyl flooring in the kitchen (floor 2). The substrate is concrete.

3. **Gray window glazing (Non-friable)**
   Sample numbers: 2020-0614-3-25 & 3-26

There is approximately 15 linear feet of asbestos containing gray glazing associated with one (1) aluminum framed window located in warehouse 1 storage (floor 2).

6.0 CONCLUSIONS AND RECOMMENDATIONS (continued)

4. Black asphaltic mastic (Non-friable)
Sample numbers: 2020-0614-3-35 & 3-36

There is approximately 2,000 square feet of asbestos containing black asphaltic mastic associated with rolled black asphaltic roofing (flat roof) located on warehouse 1. The substrate is wood.

5. Black asphaltic material (Non-friable)
Sample numbers: 2020-0614-3-37 & 3-38

There is approximately 2,700 square feet of asbestos containing black asphaltic material associated with tri-tab asphaltic shingle roofing (gable roof) located on warehouse 1. The substrate is wood.

Below is a picture inventory of materials not sampled, but which are considered to be suspect asbestos containing building materials:

Ceramic floor tiles / mastic (restrooms)

White hardboard wall panel (kitchen)

6.0 CONCLUSIONS AND RECOMMENDATIONS (continued)

Contractors should be aware that concealed suspect asbestos-containing building materials may be uncovered during demolition or renovation work. Contractors should have contingency plans that include stopping work, evacuation of the immediate area and sampling by a certified AHERA Building Inspector whenever these materials are found. Concealed suspect materials may include but are not limited to non-fiberglass pipe or roof drain insulation; spray-applied coatings; cement board; asphalt or paper vapor barriers; floorings and adhesives.

If discovered, all asbestos-containing materials that will be disturbed as a natural part of renovation and/or demolition are required to be removed and disposed of in accordance with Washington State regulations. Washington State Department of Labor and Industries and SRCAA requires that the Abatement be performed using Certified Asbestos Workers under the direct on-site supervision by a Certified Asbestos Supervisor. Further, NVL suggests that an AHERA inspector review this property after abatement to ensure all asbestos-containing materials have been removed by the contractor.

NVL recommends that an AHERA inspector/project manager be on site at the time of demolition to ensure that any potentially asbestos-containing materials uncovered during the process of renovation/demolition be dealt with properly.

NVL Labs, Inc. is making the following recommendations regarding asbestos:

1. A copy of this inspection report should be maintained at the project site during the duration of renovation / demolition.
2. A copy of this inspection report should be provided to the General Contractor and any Sub Contractors working on the renovation / demolition project.
3. The inspection report is not intended to serve as a design / bidding document, or scope of work prior to renovation / demolition.
4. Abatement specifications should be prepared by a Hazardous Materials Consulting firm covering the regulated building materials that will be impacted by the renovations / demolition, and these specifications should be part of any contract documents prepared for this project.
5. A licensed asbestos abatement contractor must be utilized to remove any asbestos-containing materials that will be impacted by the planned renovation / demolition.
6. A Hazardous Materials Consulting Firm should provide project oversight and air monitoring during the removal of the asbestos-containing materials.

Lead (Pb)

Lead-containing paint **was** identified in the following paint samples. Worker protection protocols are applicable for this project.

1. White paint: interior wood window / door components and trims.
2. White paint: exterior CMU walls / siding.
3. Red paint: exterior concrete siding, window / door components and trims.

6.0 CONCLUSIONS AND RECOMMENDATIONS (continued)

The Federal Occupational Safety & Health Administration's (OSHA) interim lead safety standard (29 CFR 1926.59) for the construction industry became effective on June 3, 1993. Lead exposure in construction is regulated in Washington State by WAC 296-155-176. These regulations protect workers disturbing building surfaces with lead containing paints. Paint with "any detectable level" of lead is classified as a lead containing paint by federal and state regulations and the applicable worker safety provisions must be implemented.

WORKER EXPOSURE

WAC 296-155-176, Lead (Pb), applies to all construction work where an employee may be occupationally exposed to Lead (Pb). Construction work includes activities such as demolition or salvage, removal or encapsulation, and renovation of materials that contain Lead (Pb). When an employee may be occupational exposed to Lead (Pb), the employer must perform an exposure assessment according to WAC 296-155-176.

The exposure assessment consists of personal air monitoring to determine representative Lead (Pb) exposure levels for the work being performed. During the exposure assessment, the employer must provide the following:

- As a minimum, a half mask air purifying respirators equipped with high efficiency particulate air (HEPA) filters in accordance with WAC 296-155-17613.
- Appropriate personal protective clothing / equipment in accordance with WAC 296-155-17615.
- A designated change area which allows for separate storage areas for work and street clothing to prevent cross contamination in accordance with WAC 296-155-17619(2).
- Hand washing facilities to wash their hands and faces WAC 296-155-17619(5).
- Biological monitoring in the form of blood survey and analysis for Lead (Pb) and zinc protoporphyrin levels in accordance with WAC 296-155-17621 (1) (a).
- Training to include hazard communication, safety, and the limitations, proper use, and maintenance of respirators in accordance with WAC 296-155-100.

In addition to the protective equipment and hygiene requirements, the employer must attempt to reduce the levels of airborne Lead (Pb) through engineering controls such as ventilation and wet methods.

Mercury

Fifty-eight (58) florescent light tubes were identified and assumed to contain Mercury (Hg).

Fluorescent light tubes, HID lamps, and thermostats contain mercury (Hg) are classified as universal waste by the EPA and Ecology. The Universal Waste Rule for Dangerous Waste Lamps (WAC 173-303-573) included the following requirements:

- Immediately place lamps showing evidence of leakage, damage, etc. in a container for removal;
- Containerize in closed, structurally sound, compatible containers;
- Cardboard containers may be used for inside storage only;
- Labeling container required: "Waste Lamps," or "Universal Waste Lamps;"

6.0 CONCLUSIONS AND RECOMMENDATIONS (continued)

- Track the length of time since waste lamp generation. Acceptable methods of proof include: date on label, inventory system, etc.
- Respond immediately to potential releases. If determined to be a release, contain and determine if it designates as a dangerous waste. If so, manage the release as specified in WAC 173-303;
- Disposal of universal waste as general or construction debris is not permitted;
- The crushing of fluorescent light tubes on-site is not allowed. In addition, measures should be taken to prevent breakage of fluorescent light tubes while the light tubes are in transit to their destination.
- Provide training to employees on the proper handling and emergency procedures of universal waste lamps;
- Track shipments of universal waste lamps with records (invoice, manifest, etc.) kept for a minimum of 3 years.

Poly Chlorinated Biphenyls (PCB) Light Ballasts

During the visual inspection twenty-nine (29) light ballasts were identified and assumed to contain Poly Chlorinated Biphenyls (PCB).

The Washington statutes definition of a PCB-containing material require that any material with more than 2 parts per million (ppm) to be treated as PCB-containing material. Federal regulations dictated that any material with less than 50 ppm PCBs could be labeled as a non-PCB containing material. Because of this regulatory change, NVL recommends that all light ballasts be observed, removed, handled, and disposed of in an appropriate manner. The ballasts labeled with “PCB Free” and “Non-PCB” shall be packaged for recycle by an approved recycling facility.

TCLP

The TCLP sample result is below the threshold of 5.0 ppm. Thus, the solid waste stream of the demolition debris from the structure is considered as regular demolition debris.

A solid waste exhibits the characteristic of toxicity if, using the *Toxicity Characteristic Leaching Procedure* (TCLP) testing method, as incorporated in WAC 173-303-090, the extract from a representative sample of the waste contains lead (Pb) contaminants equal to or greater than 5.0 ppm. A material "fails" the TCLP when there is 5.0 parts per million or greater of lead (Pb) in the leachate.

7.0 LIMITATIONS

The purpose of this hazardous materials survey report is to document asbestos containing building materials, lead paint coatings and Mercury / PCB containing devices discovered 130 E. Sprague Avenue, Spokane, WA 99202.

The purpose of this survey was to identify suspect asbestos containing building materials, lead paint coatings, and Mercury (Hg) / PCB containing devices associated with the structure.

Due to occupancy, destructive sampling methods were not utilized to collect samples of suspect building materials. No soft/limited demolition was performed during this inspection. Hidden materials may exist within the structure, and all suspect materials must be treated as hazardous until testing proves otherwise.

As hazardous material surveys are non-comprehensive by nature, NVL Laboratories, Inc. cannot be held liable for materials which require destructive means to access, materials which are hidden from sight (e.g. materials hidden behind walls), materials which cannot be found due to their obscure nature, or which otherwise cannot be discovered with reasonable diligence.

This document is the sole property of NVL Laboratories and the property owner, or his agent, authorizing this survey.

Inspected By

Tanveer Khan
AHERA Building Inspector
AHERA Certification: # 178610
Expiration Date: July 30, 2021

Reviewed By

Syed Hasan
Manager Field Services
AHERA Certification: # 178607
Expiration Date: July 30, 2021

Inspected By

Derrick Gallard
AHERA Building Inspector
AHERA Certification: # 175015
Expiration Date: October 8, 2020

NVL
LABS

Appendix A

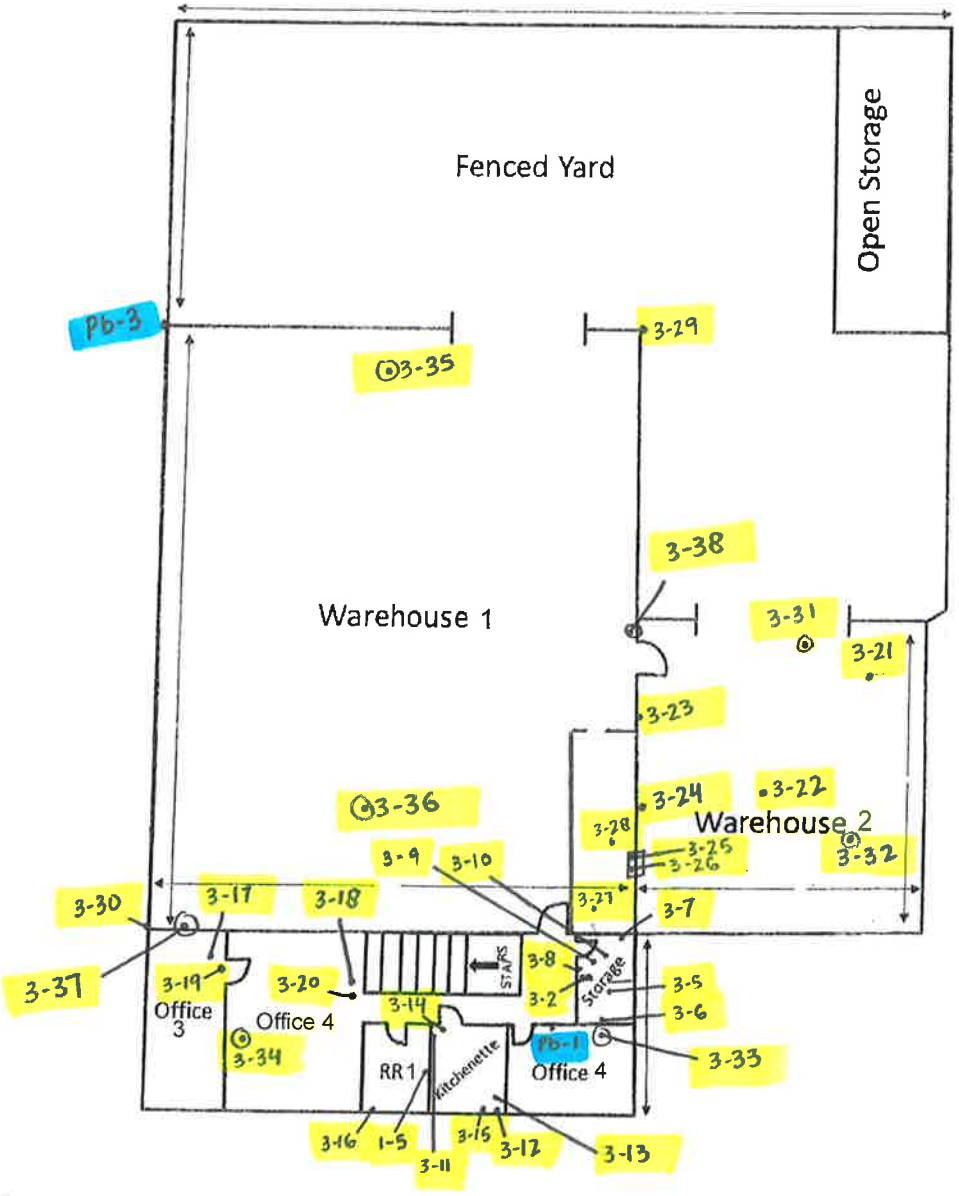
Sample Locations (Floor Plan)

NVL
INDUSTRIAL HYGIENE SERVICES
LABORATORY • MANAGEMENT • TRAINING

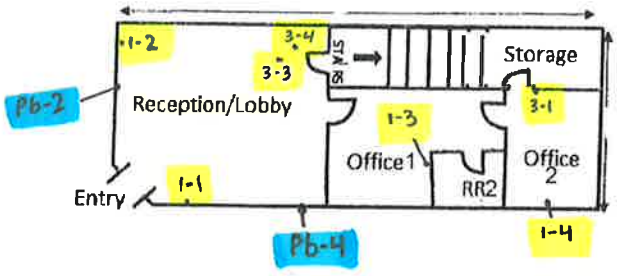
Client Stantec Consulting Services - Cyrus Gorman
Location 130 E Sprague Avenue, Spokane, WA 99202

Date 9/18/2020
Made by Tanveer Khan

Floor 2



Floor 1



NVL Project # 2020-0614

(NOT TO SCALE)

Appendix B

Laboratory Analysis Results

September 21, 2020

Derrick Gallard
NVL Field Services Division
4708 Aurora Ave. N.
Seattle, WA 98103

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 2015720.00

Client Project: 2020-0614
Location: 130 E. Sprague Ave Spokane, WA 99202

Dear Mr. Gallard,

Enclosed please find test results for the 43 sample(s) submitted to our laboratory for analysis on 9/18/2020.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with **U. S. EPA 40 CFR Appendix E to Subpart E of Part 763**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116**, Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Matt Macfarlane, Asbestos Lab Supervisor

Lab Code: 102063-0

Enc.: Sample Results

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Derrick Gallard
Project Location: 130 E. Sprague Ave Spokane, WA 99202

Batch #: 2015720.00
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 43
Samples Analyzed: 38
Method: EPA/600/R-93/116

Lab ID: 20102022 **Client Sample #: 2020-0614-1-1**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 2	**Description:** White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous binder, Calcareous particles, Paint	Cellulose	2%	**None Detected ND**
Layer 2 of 2	**Description:** White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Gypsum/Binder, Fine particles	Cellulose	21%	**None Detected ND**
		Glass fibers	2%	

Lab ID: 20102023 **Client Sample #: 2020-0614-1-2**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 2	**Description:** White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous binder, Calcareous particles, Paint	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Gypsum/Binder, Fine particles	Cellulose	19%	**None Detected ND**
		Glass fibers	3%	

Lab ID: 20102024 **Client Sample #: 2020-0614-1-3**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 2	**Description:** White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous binder, Calcareous particles, Paint	Cellulose	2%	**None Detected ND**

Sampled by: Client
Analyzed by: William Minor **Date:** 09/21/2020
Reviewed by: Matt Macfarlane **Date:** 09/21/2020

Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Derrick Gallard
Project Location: 130 E. Sprague Ave Spokane, WA 99202

Batch #: 2015720.00
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 43
Samples Analyzed: 38
Method: EPA/600/R-93/116

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Gypsum/Binder, Fine particles	Cellulose 23%	**None Detected ND**
	Glass fibers 2%	

Lab ID: 20102025 **Client Sample #: 2020-0614-1-4**

Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 2 **Description:** White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Paint	Cellulose 2%	**None Detected ND**

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Gypsum/Binder, Fine particles	Cellulose 20%	**None Detected ND**
	Glass fibers 2%	

Lab ID: 20102026 **Client Sample #: 2020-0614-1-5**

Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 2 **Description:** White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Paint	Cellulose 2%	**None Detected ND**

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Gypsum/Binder, Fine grains, Fine particles	Cellulose 19%	**None Detected ND**
	Glass fibers 2%	

Lab ID: 20102027 **Client Sample #: 2020-0614-3-1**

Location: 130 E. Sprague Ave Spokane, WA 99202

Sampled by: Client
Analyzed by: William Minor **Date:** 09/21/2020
Reviewed by: Matt Macfarlane **Date:** 09/21/2020

Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Derrick Gallard
Project Location: 130 E. Sprague Ave Spokane, WA 99202

Batch #: 2015720.00
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 43
Samples Analyzed: 38
Method: EPA/600/R-93/116

Layer 1 of 2	**Description:** White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Fine particles, Paint	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Fine particles	Cellulose	22%	**None Detected ND**

Lab ID: 20102028 **Client Sample #: 2020-0614-3-2**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 2	**Description:** White compacted powdery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Calcareous particles	Cellulose	2%	**None Detected ND**
Layer 2 of 2	**Description:** White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Fine particles	Cellulose	18%	**None Detected ND**
		Glass fibers	3%	

Lab ID: 20102029 **Client Sample #: 2020-0614-3-3**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 1	**Description:** White compressed fibrous material with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles, Mastic/Binder	Cellulose	5%	**Chrysotile 73%**

Lab ID: 20102030 **Client Sample #: 2020-0614-3-4** **Sample Status: Not Analyzed**

Lab ID: 20102031 **Client Sample #: 2020-0614-3-5**
Location: 130 E. Sprague Ave Spokane, WA 99202

Sampled by: Client
Analyzed by: William Minor **Date:** 09/21/2020
Reviewed by: Matt Macfarlane **Date:** 09/21/2020

Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Derrick Gallard
Project Location: 130 E. Sprague Ave Spokane, WA 99202

Batch #: 2015720.00
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 43
Samples Analyzed: 38
Method: EPA/600/R-93/116

Layer 1 of 1	**Description:** Brown wallpaper with trace mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Mastic/Binder, Fine particles	Cellulose 88%	**None Detected ND**

Lab ID: 20102032 **Client Sample #: 2020-0614-3-6**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 1	**Description:** Brown wallpaper with trace mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Mastic/Binder, Fine particles	Cellulose 91%	**None Detected ND**

Lab ID: 20102033 **Client Sample #: 2020-0614-3-7**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 1	**Description:** Brown brittle mastic with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Paint, Fine particles	Cellulose 2%	**None Detected ND**
		Synthetic fibers 2%	

Lab ID: 20102034 **Client Sample #: 2020-0614-3-8**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 1	**Description:** Brown brittle mastic with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Paint, Fine particles	Cellulose 2%	**None Detected ND**

Lab ID: 20102035 **Client Sample #: 2020-0614-3-9**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 2	**Description:** Black asphaltic mastic on brown compressed fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Fine particles	Cellulose 79%	**None Detected ND**

Sampled by: Client
Analyzed by: William Minor **Date:** 09/21/2020
Reviewed by: Matt Macfarlane **Date:** 09/21/2020

Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Derrick Gallard
Project Location: 130 E. Sprague Ave Spokane, WA 99202

Batch #: 2015720.00
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 43
Samples Analyzed: 38
Method: EPA/600/R-93/116

Layer 2 of 2	**Description:** Brown compressed wood chips		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Wood flakes, Fine particles	Cellulose 90%	**None Detected ND**

Lab ID: 20102036 **Client Sample #: 2020-0614-3-10**

Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 2	**Description:** Black asphaltic mastic on brown compressed fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Fine particles	Cellulose 81%	**None Detected ND**
Layer 2 of 2	**Description:** Brown compressed wood chips		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Wood flakes, Fine particles	Cellulose 87%	**None Detected ND**

Lab ID: 20102037 **Client Sample #: 2020-0614-3-11**

Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 3	**Description:** Gray rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** White firm mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Calcareous particles, Fine particles	None Detected ND	**None Detected ND**
Layer 3 of 3	**Description:** Brown brittle mastic with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Paint, Fine particles	Cellulose 2%	**None Detected ND**

Lab ID: 20102038 **Client Sample #: 2020-0614-3-12**

Location: 130 E. Sprague Ave Spokane, WA 99202

Sampled by: Client
Analyzed by: William Minor **Date:** 09/21/2020
Reviewed by: Matt Macfarlane **Date:** 09/21/2020

Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Derrick Gallard
Project Location: 130 E. Sprague Ave Spokane, WA 99202

Batch #: 2015720.00
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 43
Samples Analyzed: 38
Method: EPA/600/R-93/116

Layer 1 of 2	**Description:** Gray rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	Cellulose	3%	**None Detected ND**

Lab ID: 20102039 **Client Sample #: 2020-0614-3-13**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 4	**Description:** White sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Synthetic foam	None Detected	ND	**None Detected ND**
Layer 2 of 4	**Description:** Gray firm material with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Mastic/Binder, Fine particles	Cellulose	6%	**None Detected ND**
Layer 3 of 4	**Description:** Brown sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Synthetic foam	None Detected	ND	**None Detected ND**
Layer 4 of 4	**Description:** Tan fibrous material with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Binder/Filler, Fine particles	Cellulose	29%	**Chrysotile 44%**

Lab ID: 20102040 **Client Sample #: 2020-0614-3-14** **Sample Status: Not Analyzed**

Lab ID: 20102041 **Client Sample #: 2020-0614-3-15**
Location: 130 E. Sprague Ave Spokane, WA 99202

Sampled by: Client
Analyzed by: William Minor **Date:** 09/21/2020
Reviewed by: Matt Macfarlane **Date:** 09/21/2020

Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Derrick Gallard
Project Location: 130 E. Sprague Ave Spokane, WA 99202

Batch #: 2015720.00
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 43
Samples Analyzed: 38
Method: EPA/600/R-93/116

Layer 1 of 1	**Description:** White rubbery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Caulking compound, Paint, Fine particles	Cellulose	2%	**None Detected ND**

Lab ID: 20102042 **Client Sample #: 2020-0614-3-16**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 1	**Description:** White rubbery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Caulking compound, Paint, Fine particles	None Detected	ND	**None Detected ND**

Lab ID: 20102043 **Client Sample #: 2020-0614-3-17**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 1	**Description:** Beige compressed fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Glass beads, Foamed glass	Cellulose	38%	**None Detected ND**
	Glass debris, Fine particles, Paint	Glass fibers	25%	

Lab ID: 20102044 **Client Sample #: 2020-0614-3-18**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 1	**Description:** Beige compressed fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Glass beads, Foamed glass	Cellulose	14%	**None Detected ND**
	Glass debris, Fine particles, Paint	Glass fibers	23%	

Lab ID: 20102045 **Client Sample #: 2020-0614-3-19**
Location: 130 E. Sprague Ave Spokane, WA 99202

Sampled by: Client
Analyzed by: William Minor **Date:** 09/21/2020
Reviewed by: Matt Macfarlane **Date:** 09/21/2020

Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Derrick Gallard
Project Location: 130 E. Sprague Ave Spokane, WA 99202

Batch #: 2015720.00
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 43
Samples Analyzed: 38
Method: EPA/600/R-93/116

Layer 1 of 4	**Description:** White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Calcareous particles, Paint	Cellulose	2%	**None Detected ND**
Layer 2 of 4	**Description:** Brown compressed fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Wood flakes, Paint	Cellulose	91%	**None Detected ND**
Layer 3 of 4	**Description:** Black asphaltic mastic on paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Fine particles, Calcareous particles	Cellulose	83%	**None Detected ND**
Layer 4 of 4	**Description:** Black fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Glass beads, Glass debris, Fine particles	Glass fibers	86%	**None Detected ND**

Lab ID: 20102046 **Client Sample #: 2020-0614-3-20**

Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 3	**Description:** Brown compressed fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Wood flakes, Paint	Cellulose	88%	**None Detected ND**
Layer 2 of 3	**Description:** Black asphaltic mastic on paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Fine particles, Calcareous particles	Cellulose	79%	**None Detected ND**
Layer 3 of 3	**Description:** Black fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Glass beads, Glass debris, Fine particles	Glass fibers	81%	**None Detected ND**

Lab ID: 20102047 **Client Sample #: 2020-0614-3-21**

Location: 130 E. Sprague Ave Spokane, WA 99202

Sampled by: Client
Analyzed by: William Minor **Date:** 09/21/2020
Reviewed by: Matt Macfarlane **Date:** 09/21/2020

Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Derrick Gallard
Project Location: 130 E. Sprague Ave Spokane, WA 99202

Batch #: 2015720.00
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 43
Samples Analyzed: 38
Method: EPA/600/R-93/116

Layer 1 of 2	**Description:** Black asphaltic mastic on paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Fine particles, Calcareous particles	Cellulose 84%	**None Detected ND**
Layer 2 of 2	**Description:** Pink fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Glass debris, Fine particles	Glass fibers 90%	**None Detected ND**

Lab ID: 20102048 **Client Sample #: 2020-0614-3-22**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 2	**Description:** Black asphaltic mastic on paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Fine particles, Calcareous particles	Cellulose 86%	**None Detected ND**
Layer 2 of 2	**Description:** Pink fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Glass debris, Fine particles, Organic debris	Glass fibers 89%	**None Detected ND**
		Cellulose 2%	

Lab ID: 20102049 **Client Sample #: 2020-0614-3-23**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 1	**Description:** Black brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Calcareous particles	Cellulose 2%	**None Detected ND**
	Synthetic foam, Fine grains	Glass fibers 2%	

Lab ID: 20102050 **Client Sample #: 2020-0614-3-24**
Location: 130 E. Sprague Ave Spokane, WA 99202

Sampled by: Client
Analyzed by: William Minor **Date:** 09/21/2020
Reviewed by: Matt Macfarlane **Date:** 09/21/2020

Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Derrick Gallard
Project Location: 130 E. Sprague Ave Spokane, WA 99202

Batch #: 2015720.00
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 43
Samples Analyzed: 38
Method: EPA/600/R-93/116

Layer 1 of 1 **Description:** Black brittle material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Calcareous particles	Cellulose 3%	**None Detected ND**
Organic debris	Glass fibers 2%	

Lab ID: 20102051 **Client Sample #: 2020-0614-3-25**

Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 1 **Description:** Gray brittle material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Calcareous particles, Fine particles	None Detected ND	**Chrysotile 4%**

Lab ID: 20102052 **Client Sample #: 2020-0614-3-26** **Sample Status: Not Analyzed**

Lab ID: 20102053 **Client Sample #: 2020-0614-3-27**

Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 1 **Description:** Brown compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Wood flakes, Paint	Cellulose 86%	**None Detected ND**
Fine particles		

Lab ID: 20102054 **Client Sample #: 2020-0614-3-28**

Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 1 **Description:** Brown compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Wood flakes, Paint	Cellulose 87%	**None Detected ND**
Fine particles		

Sampled by: Client
Analyzed by: William Minor **Date:** 09/21/2020
Reviewed by: Matt Macfarlane **Date:** 09/21/2020

Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Derrick Gallard
Project Location: 130 E. Sprague Ave Spokane, WA 99202

Batch #: 2015720.00
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 43
Samples Analyzed: 38
Method: EPA/600/R-93/116

Lab ID: 20102055 **Client Sample #: 2020-0614-3-29**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 1 **Description:** Gray brittle material with mineral grains and paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Mineral grains, Paint	None Detected ND	**None Detected ND**
Glass debris		

Lab ID: 20102056 **Client Sample #: 2020-0614-3-30**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 1 **Description:** Gray brittle material with mineral grains and paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Mineral grains, Paint	None Detected ND	**None Detected ND**
Glass debris		

Lab ID: 20102057 **Client Sample #: 2020-0614-3-31**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 1 **Description:** Black asphaltic material with mineral grains & black mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Mineral grains, Organic debris	Cellulose 19%	**None Detected ND**
Organic debris, Wood flakes, Fine particles	Cellulose 11%	

Lab ID: 20102058 **Client Sample #: 2020-0614-3-32**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 3 **Description:** Black asphaltic material with white mineral grains

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Mineral grains, Organic debris	Cellulose 24%	**None Detected ND**
Organic debris, Fine particles	Cellulose 3%	

Sampled by: Client
Analyzed by: William Minor **Date:** 09/21/2020
Reviewed by: Matt Macfarlane **Date:** 09/21/2020

Matt Macfarlane, Asbestos Lab Supervisor

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Derrick Gallard
Project Location: 130 E. Sprague Ave Spokane, WA 99202

Batch #: 2015720.00
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 43
Samples Analyzed: 38
Method: EPA/600/R-93/116

Layer 2 of 3	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Fine particles, Wood flakes	Cellulose	23%	**None Detected ND**
Layer 3 of 3	**Description:** Black asphaltic material with fine mineral grains			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Fine grains, Fine particles	Glass fibers	16%	**None Detected ND**
	Organic debris, Wood flakes	Cellulose	8%	

Lab ID: 20102059 **Client Sample #: 2020-0614-3-33**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 2	**Description:** Black/white rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Rubber/Binder	Synthetic fibers	10%	**None Detected ND**
Layer 2 of 2	**Description:** White foamy material with foil			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Synthetic foam, Metal foil	None Detected	ND	**None Detected ND**

Lab ID: 20102060 **Client Sample #: 2020-0614-3-34**
Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 2	**Description:** Black/white rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Rubber/Binder	Synthetic fibers	10%	**None Detected ND**
Layer 2 of 2	**Description:** White foamy material with foil			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Synthetic foam, Metal foil	None Detected	ND	**None Detected ND**

Lab ID: 20102061 **Client Sample #: 2020-0614-3-35**
Location: 130 E. Sprague Ave Spokane, WA 99202

Sampled by: Client
Analyzed by: William Minor **Date:** 09/21/2020
Reviewed by: Matt Macfarlane **Date:** 09/21/2020

Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Derrick Gallard
Project Location: 130 E. Sprague Ave Spokane, WA 99202

Batch #: 2015720.00
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 43
Samples Analyzed: 38
Method: EPA/600/R-93/116

Layer 1 of 5	**Description:** Silver paint with white rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Metallic paint, Fine particles	Cellulose	3%	**None Detected ND**
Layer 2 of 5	**Description:** Black asphaltic material with multi-colored mineral grains			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Mineral grains, Fine grains	Glass fibers	21%	**None Detected ND**
		Cellulose	4%	
Layer 3 of 5	**Description:** Black asphaltic fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Fine particles, Organic debris	Cellulose	71%	**None Detected ND**
Layer 4 of 5	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Fine particles, Calcareous particles	Cellulose	3%	**Chrysotile 6%**
Layer 5 of 5	**Description:** White foamy material with foil			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Synthetic foam, Metal foil	None Detected	ND	**None Detected ND**

Lab ID: 20102062 **Client Sample #: 2020-0614-3-36** **Sample Status: Not Analyzed**

Lab ID: 20102063 **Client Sample #: 2020-0614-3-37**

Location: 130 E. Sprague Ave Spokane, WA 99202

Layer 1 of 4	**Description:** Black asphaltic material with red mineral grains			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Mineral grains, Fine grains	Glass fibers	25%	**None Detected ND**
	Organic debris	Cellulose	4%	

Sampled by: Client
Analyzed by: William Minor **Date:** 09/21/2020
Reviewed by: Matt Macfarlane **Date:** 09/21/2020

Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Derrick Gallard
Project Location: 130 E. Sprague Ave Spokane, WA 99202

Batch #: 2015720.00
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 43
Samples Analyzed: 38
Method: EPA/600/R-93/116

Layer 2 of 4	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Fine particles, Calcareous particles	Cellulose 2%	**None Detected ND**
Layer 3 of 4	**Description:** Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Fine particles, Calcareous particles	Cellulose 8%	**Chrysotile 61%**
Layer 4 of 4	**Description:** Black asphaltic woven fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Fine particles, Organic debris	Cellulose 77%	**None Detected ND**

Lab ID: 20102064 **Client Sample #: 2020-0614-3-38** **Sample Status: Not Analyzed**

Sampled by: Client
Analyzed by: William Minor **Date:** 09/21/2020
Reviewed by: Matt Macfarlane **Date:** 09/21/2020

Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

ASBESTOS LABORATORY SERVICES

Company	NVL Field Services Division	**NVL Batch Number**	**2015720.00**
Address	4708 Aurora Ave. N. Seattle, WA 98103	**TAT** 2 Days **Rush TAT**	**AH** No
Project Manager	Mr. Derrick Gallard	**Due Date** 9/22/2020	**Time** 3:55 PM
Phone	(206) 547-0100	**Email**	derrick.g@nvllabs.com
Cell	(206) 707-3236	**Fax**	(206) 634-1936

Project Name/Number: 2020-0614 **Project Location:** 130 E. Sprague Ave Spokane, WA 99202

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 43 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	20102022	2020-0614-1-1		A
2	20102023	2020-0614-1-2		A
3	20102024	2020-0614-1-3		A
4	20102025	2020-0614-1-4		A
5	20102026	2020-0614-1-5		A
6	20102027	2020-0614-3-1	Composite, ***Stop at first positive	A
7	20102028	2020-0614-3-2	***	A
8	20102029	2020-0614-3-3	***Stop at first positive	A
9	20102030	2020-0614-3-4	***	A
10	20102031	2020-0614-3-5	***Stop at first positive	A
11	20102032	2020-0614-3-6	***	A
12	20102033	2020-0614-3-7	***Stop at first positive	A
13	20102034	2020-0614-3-8	***	A
14	20102035	2020-0614-3-9	***Stop at first positive	A
15	20102036	2020-0614-3-10	***	A
16	20102037	2020-0614-3-11	***Stop at first positive	A
17	20102038	2020-0614-3-12	***	A
18	20102039	2020-0614-3-13	***Stop at first positive	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	9/18/20	1555
Analyzed by	William Minor		NVL	9/21/20	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions: Stop at first positive (per client COC)

Date: 9/18/2020
Time: 5:24 PM
Entered By: Emily Schubert

ASBESTOS LABORATORY SERVICES

Company	NVL Field Services Division	**NVL Batch Number**	**2015720.00**
Address	4708 Aurora Ave. N. Seattle, WA 98103	**TAT** 2 Days **Rush TAT**	**AH** No
Project Manager	Mr. Derrick Gallard	**Due Date** 9/22/2020	**Time** 3:55 PM
Phone	(206) 547-0100	**Email**	derrick.g@nvllabs.com
Cell	(206) 707-3236	**Fax**	(206) 634-1936

Project Name/Number: 2020-0614 **Project Location:** 130 E. Sprague Ave Spokane, WA 99202

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 43 Rush Samples

	Lab ID	Sample ID	Description	A/R
19	20102040	2020-0614-3-14	***	A
20	20102041	2020-0614-3-15	***Stop at first positive	A
21	20102042	2020-0614-3-16	***	A
22	20102043	2020-0614-3-17	***Stop at first positive	A
23	20102044	2020-0614-3-18	***	A
24	20102045	2020-0614-3-19	***Stop at first positive	A
25	20102046	2020-0614-3-20	***	A
26	20102047	2020-0614-3-21	***Stop at first positive	A
27	20102048	2020-0614-3-22	***	A
28	20102049	2020-0614-3-23	***Stop at first positive	A
29	20102050	2020-0614-3-24	***	A
30	20102051	2020-0614-3-25	***Stop at first positive	A
31	20102052	2020-0614-3-26	***	A
32	20102053	2020-0614-3-27	***Stop at first positive	A
33	20102054	2020-0614-3-28	***	A
34	20102055	2020-0614-3-29	***Stop at first positive	A
35	20102056	2020-0614-3-30	***	A
36	20102057	2020-0614-3-31	***Stop at first positive	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	9/18/20	1555
Analyzed by	William Minor		NVL	9/21/20	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions: Stop at first positive (per client COC)

Date: 9/18/2020
Time: 5:24 PM
Entered By: Emily Schubert

ASBESTOS LABORATORY SERVICES

Company	NVL Field Services Division	**NVL Batch Number**	**2015720.00**
Address	4708 Aurora Ave. N. Seattle, WA 98103	**TAT** 2 Days **AH** No **Rush TAT**	
Project Manager	Mr. Derrick Gallard	**Due Date** 9/22/2020 **Time** 3:55 PM	
Phone	(206) 547-0100	**Email**	derrick.g@nvllabs.com
Cell	(206) 707-3236	**Fax**	(206) 634-1936

Project Name/Number: 2020-0614 **Project Location:** 130 E. Sprague Ave Spokane, WA 99202

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 43 Rush Samples

	Lab ID	Sample ID	Description	A/R
37	20102058	2020-0614-3-32	***	A
38	20102059	2020-0614-3-33	***Stop at first positive	A
39	20102060	2020-0614-3-34	***	A
40	20102061	2020-0614-3-35	***Stop at first positive	A
41	20102062	2020-0614-3-36	***	A
42	20102063	2020-0614-3-37	***Stop at first positive	A
43	20102064	2020-0614-3-38	***	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	9/18/20	1555
Analyzed by	William Minor		NVL	9/21/20	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions: Stop at first positive (per client COC)

Date: 9/18/2020
Time: 5:24 PM
Entered By: Emily Schubert

CHAIN of CUSTODY SAMPLE LOG

2015720

Client NVL Laboratories Inc
Street 4708 Aurora Ave N
Seattle, WA 98103
Project Manager Syed Hasan
Project Location 130 E Sprague Ave
Spokane, WA 99202

NVL Batch Number
Client Job Number 2020-0614
Total Samples 43
Turn Around Time ☐ 1 Hr ☐ 6 Hrs ☐ 3 Days ☐ 10 Days ☐ 2 Hrs ☐ 1 Day ☐ 4 Days ☐ 4 Hrs ☒ 2 Days ☐ 5 Days
Please call for TAT less than 24 Hrs
Email address cyrus.gorman@stantec.com

Phone: (503) 297-1631 **Fax:** (503) 467-1657 **Direct No** (425) 599-9302

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other
☒ Asbestos Bulk	☒ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM BULK	
☐ Mold/Fungus	☐ Mold Air	☐ Mold Bulk	☐ Rotometer Calibration		

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ FAA (ppm)	☐ Air Filter	☐ Soil	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ICP (ppm)	☐ Drinking water	☐ Paint Chips in %	☐ Barium (Ba)	☐ Chromium (Cr	☐ Copper (Cu)
☐ Cr 6	☐ GFAA (ppb)	☐ Dust/wipe (Area)	☐ Paint Chips in cm	☐ Cadmium (Cd)	☐ Lead (Pb)	☐ Nickel (Ni)
					☐ Mercury (Hg)	☐ Zinc (Zn)

☐ Other Types of Analysis ☐ Fiberglass ☐ Nuisance Dust ☐ Other (Specify) _____
☐ Silica ☐ Respirable Dust

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		2020-0614-1-1		
2		1-2		
3		1-3		
4		1-4		
5		1-5		
6		3-1	COMPOSITE STOP @ 1ST POS	
7		3-2	↓ ↓	
8		3-3	STOP @ 1ST POS	
9		3-4	↓	
10		3-5	STOP @ 1ST POS	
11		3-6	↓	
12		3-7	STOP @ 1ST POS	
13		3-8	↓	
14		3-9	STOP @ 1ST POS	
15		3-10	↓	
		2020-0614-3-11	STOP @ 1ST POS	
		3-12	↓	
		3-13	STOP @ 1ST POS	
		3-14	↓	
		3-15	STOP @ 1ST POS	
		3-16	↓	
		3-17	STOP @ 1ST POS	
		3-18	↓	
		3-19	STOP @ 1ST POS	
		3-20	↓	
		3-21	STOP @ 1ST POS	
		3-22	↓	
		3-23	STOP @ 1ST POS	
		3-24	↓	

	Print Below	Sign Below	Company	Date	Time
Sampled by	DERRICK		NVL	9/18/20	8:00
Relinquished by	↓		NVL	9/18/20	
Received by			NVL	9/18/20	1555
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
Results report to

CHAIN of CUSTODY SAMPLE LOG

2015720

LABORATORY • MANAGEMENT • TRAINING

Client NVL Laboratories Inc
Street 4708 Aurora Ave N
Seattle, WA 98103
Project Manager Syed Hasan
Project Location 130 E Sprague Ave
Spokane, WA 99202

NVL Batch Number
Client Job Number 2020-0614
Total Samples 43

Turn Around Time ☐ 1 Hr ☐ 2 Hrs ☐ 4 Hrs ☐ 6 Hrs ☐ 1 Day ☒ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days
Please call for TAT less than 24 Hrs

Email address cyrus.gorman@stantec.com

Phone: (503) 297-1631 **Fax:** (503) 467-1657 **Direct No** (425) 599-9302

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other
☒ Asbestos Bulk	☒ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM BULK	
☐ Mold/Fungus	☐ Mold Air	☐ Mold Bulk	☐ Rotometer Calibration		

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ FAA (ppm)	☐ Air Filter	☐ Soil	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ICP (ppm)	☐ Drinking water	☐ Paint Chips in %	☐ Barium (Ba)	☐ Chromium (Cr	☐ Copper (Cu)
☐ Cr 6	☐ GFAA (ppb)	☐ Dust/wipe (Area)	☐ Paint Chips in cm	☐ Cadmium (Cd)	☐ Lead (Pb)	☐ Nickel (Ni)
					☐ Mercury (Hg)	☐ Zinc (Zn)

Other Types of Analysis ☐ Fiberglass ☐ Nuisance Dust ☐ Other (Specify) _____
☐ Silica ☐ Respirable Dust

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		2020-0614-3-25	STOP @ 1ST POS	
2		3-26	↓	
3		3-27	STOP @ 1ST POS	
4		3-28	↓	
5		3-29	STOP @ 1ST POS	
6		3-30	↓	
7		3-31	STOP @ 1ST POS	
8		3-32	↓	
9		3-33	STOP @ 1ST POS	
10		3-34	↓	
11		3-35	STOP @ 1ST POS	
12		3-36	↓	
13		3-37	STOP @ 1ST POS	
14		3-38	↓	
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	DERRICK		NVL	9/18/20	8:00
Relinquished by	↓		NVL	9/18/20	
Received by	Emily S		NVL	9/18/20	1555
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
Results report to

September 21, 2020

Derrick Gallard
NVL Field Services Division
4708 Aurora Ave. N.
Seattle, WA 98103

NVL Batch # 2015715.00

RE: Total Metal Analysis
Method: EPA 7000B Lead by FAA <paint>
Item Code: FAA-02

Client Project: 2020-0614
Location: 130 E. Sprague Ave Spokane, WA 99202

Dear Mr. Gallard,

NVL Labs received 4 sample(s) for the said project on 9/18/2020. Preparation of these samples was conducted following protocol outlined in EPA 3051/7000B , unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with EPA 7000B Lead by FAA <paint>. The results are usually expressed in mg/Kg and percentage (%). Test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more detail.

At NVL Labs all analyses are performed under strict guidelines of the Quality Assurance Program. This report is considered highly confidential and will not be released without your approval. Samples are archived after two weeks from the analysis date. Please feel free to contact us at 206-547-0100, in case you have any questions or concerns.

Sincerely,

Shalini Patel, Lab Supervisor

Enc.: Sample results

LAB # 101861

Analysis Report

Total Lead (Pb)

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Derrick Gallard
Project Location: 130 E. Sprague Ave Spokane, WA 99202

Batch #: 2015715.00
Matrix: Paint
Method: EPA 3051/7000B
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 4
Samples Analyzed: 4

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
20101976	2020-0614-Pb-1	0.2062	48	< 49	< 0.0049
20101977	2020-0614-Pb-2	0.2068	48	89	0.0089
20101978	2020-0614-Pb-3	0.1989	50	61	0.0061
20101979	2020-0614-Pb-4	0.1918	52	570	0.057

Sampled by: Client
Analyzed by: Ruth Schumaker
Reviewed by: Shalini Patel
Date Analyzed: 09/21/2020
Date Issued: 09/21/2020

Shalini Patel, Lab Supervisor

mg/ Kg =Milligrams per kilogram
Percent = Milligrams per kilogram / 10000
RL = Reporting Limit
'<' = Below the reporting Limit
Note : Method QC results are acceptable unless stated otherwise.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 2020-0921-2
FAA-02

LEAD LABORATORY SERVICES

Company	NVL Field Services Division	**NVL Batch Number**	**2015715.00**
Address	4708 Aurora Ave. N. Seattle, WA 98103	**TAT** 2 Days **AH** No **Rush TAT**	
Project Manager	Mr. Derrick Gallard	**Due Date** 9/22/2020 **Time** 3:55 PM	
Phone	(206) 547-0100	**Email**	derrick.g@nvllabs.com
Cell	(206) 707-3236	**Fax**	(206) 634-1936

Project Name/Number: 2020-0614 **Project Location:** 130 E. Sprague Ave Spokane, WA 99202

Subcategory Flame AA (FAA)

Item Code FAA-02 EPA 7000B Lead by FAA <paint>

Total Number of Samples 4 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	20101976	2020-0614-Pb-1		A
2	20101977	2020-0614-Pb-2		A
3	20101978	2020-0614-Pb-3		A
4	20101979	2020-0614-Pb-4		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	9/18/20	1555
Analyzed by	Ruth Schumaker		NVL	9/21/20	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 9/18/2020
Time: 5:11 PM
Entered By: Emily Schubert

CHAIN of CUSTODY SAMPLE LOG

2015715

Client NVL Laboratories Inc
Street 4708 Aurora Ave N
Seattle, WA 98103
Project Manager Syed Hasan
Project Location 130 E Sprague Ave
Spokane, WA 99202

NVL Batch Number
Client Job Number 2020-0614
Total Samples 4
Turn Around Time ☐ 1 Hr ☐ 6 Hrs ☐ 3 Days ☐ 10 Days ☐ 2 Hrs ☐ 1 Day ☐ 4 Days ☐ 4 Hrs ☒ 2 Days ☐ 5 Days
Please call for TAT less than 24 Hrs
Email address cyrus.gorman@stantec.com

Phone: (503) 297-1631 **Fax:** (503) 467-1657 **Direct No** (425) 599-9302

☐ **Asbestos Air**	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other
☒ **Asbestos Bulk**	☒ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM BULK	
☐ **Mold/Fungus**	☐ Mold Air	☐ Mold Bulk	☐ **Rotometer Calibration**		

METALS	**Det. Limit**	**Matrix**		**RCRA Metals**		**Other Metals**
☒ Total Metals	☒ FAA (ppm)	☐ Air Filter	☐ Soil	☐ Arsenic (As)	☐ All 8	☐ **All 3**
☐ TCLP	☐ ICP (ppm)	☐ Drinking water	☒ Paint Chips in %	☐ Barium (Ba)	☐ Chromium (Cr	☐ Copper (Cu)
☐ Cr 6	☐ GFAA (ppb)	☐ Dust/wipe (Area)	☐ Paint Chips in cm	☐ Cadmium (Cd)	☒ Lead (Pb)	☐ Nickel (Ni)
					☐ Mercury (Hg)	☐ Zinc (Zn)

☐ **Other Types of Analysis** ☐ Fiberglass ☐ Nuisance Dust ☐ Other (Specify) _____
☐ Silica ☐ Respirable Dust

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		2020-0614-Pb-1		
2		Pb-2		
3		Pb-3		
4		Pb-4		
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	DERRICK		NVL	9/18/20	8:00
Relinquished by	↓		NVL	9/18/20	
Received by	Cerulys		NVL	9/18/20	1555
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
Results report to

September 22, 2020

Tanveer Khan
NVL Field Services Division
4708 Aurora Ave. N.
Seattle, WA 98103

NVL Batch # 2015723.00

RE: Total Metal Analysis
Method: EPA 1311/7000B Lead by FAA <TCLP>
Item Code: TCLP-1

Client Project: 2020-0614
Location: 130 E Sprague Ave Spokane, WA 99202

Dear Mr. Khan,

NVL Labs received 1 sample(s) for the said project on 9/18/2020. Preparation of these samples was conducted following protocol outlined in EPA 1311/7000B, unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with EPA 1311/7000B Lead by FAA <TCLP>. The results are usually expressed in mg/L and ppm. Test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more detail.

At NVL Labs all analyses are performed under strict guidelines of the Quality Assurance Program. This report is considered highly confidential and will not be released without your approval. Samples are archived after two weeks from the analysis date. Please feel free to contact us at 206-547-0100, in case you have any questions or concerns.

Sincerely,

Nick Ly, Technical Director

Enc.: Sample results

LAB # 101861

Analysis Report

Toxicity Characteristic Leaching Procedure - Lead (Pb)

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: **Mr. Tanveer Khan**
Project Location: 130 E Sprague Ave Spokane, WA 99202

Batch #: 2015723.00
Matrix: Bulk
Method: EPA 1311/7000B
Client Project #: 2020-0614
Date Received: 9/18/2020
Samples Received: 1
Samples Analyzed: 1

Lab ID	Client Sample #	RL mg/ L	Results in mg/L	Results in ppm
20102106	2020-0614-TCLP	0.5	< 0.5	< 0.5

Sampled by: Client
Analyzed by: Ruth Schumaker
Reviewed by: Nick Ly

Date Analyzed: 09/22/2020
Date Issued: 09/22/2020

Nick Ly, Technical Director

mg/ L =Milligrams per liter
ppm = parts per million

RL = Reporting Limit
'<' = Below the reporting Limit

Note : Method QC results are acceptable unless stated otherwise.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 2020-0921-7

LEAD LABORATORY SERVICES

Company	NVL Field Services Division	**NVL Batch Number**	**2015723.00**
Address	4708 Aurora Ave. N. Seattle, WA 98103	**TAT** 2 Days **AH** No **Rush TAT**	
Project Manager	Mr. Tanveer Khan	**Due Date** 9/22/2020 **Time** 3:55 PM	
Phone	(206) 547-0100	**Email**	tanveer.k@nvllabs.com
Cell	(206) 799-2916	**Fax**	(206) 634-1936

Project Name/Number: 2020-0614 **Project Location:** 130 E Sprague Ave Spokane, WA 99202

Subcategory Flame AA (FAA)

Item Code TCLP-1 EPA 1311/7000B Lead by FAA <TCLP>

Total Number of Samples 1 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	20102106	2020-0614-TCLP		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	9/18/20	1555
Analyzed by	Ruth Schumaker		NVL	9/22/20	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 9/18/2020
Time: 5:36 PM
Entered By: Emily Schubert

CHAIN of CUSTODY
SAMPLE LOG

2015723

Client NVL Laboratories Inc
Street 4708 Aurora Ave N
Seattle, WA 98103
Project Manager Syed Hasan
Project Location 130 E Sprague Ave
Spokane, WA 99202

NVL Batch Number
Client Job Number 2020-0614
Total Samples 1
Turn Around Time ☐ 1 Hr ☐ 6 Hrs ☐ 3 Days ☐ 10 Days ☐ 2 Hrs ☐ 1 Day ☐ 4 Days ☐ 4 Hrs ☒ 2 Days ☐ 5 Days
Please call for TAT less than 24 Hrs
Email address cyrus.gorman@stantec.com

Phone: (503) 297-1631 **Fax:** (503) 467-1657 **Direct No** (425) 599-9302

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other
☐ Asbestos Bulk	☐ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM BULK	
☐ Mold/Fungus	☐ Mold Air	☐ Mold Bulk	☐ Rotometer Calibration		

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☒ FAA (ppm)	☐ Air Filter	☐ Soil	☐ Arsenic (As)	☐ All 8	☐ All 3
☒ TCLP	☐ ICP (ppm)	☐ Drinking water	☐ Paint Chips in %	☐ Barium (Ba)	☐ Chromium (Cr	☐ Copper (Cu)
☐ Cr 6	☐ GFAA (ppb)	☐ Dust/wipe (Area)	☐ Paint Chips in cm	☐ Cadmium (Cd)	☒ Lead (Pb)	☐ Nickel (Ni)
					☐ Mercury (Hg)	☐ Zinc (Zn)

☐ Other Types of Analysis ☐ Fiberglass ☐ Nuisance Dust ☐ Other (Specify) _____
☐ Silica ☐ Respirable Dust

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		2020-0614-TCLP		
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	TAN KHAN	Tanveer Khan	NVL	9-18-20	8:00AM
Relinquished by	TAN KHAN	Tanveer Khan	NVL	9-18-20	
Received by			NVL	9/18/20	1555
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
Results report to TAN

Appendix C

AHERA Certifications & Laboratory Qualification

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 102063-0

NVL Laboratories, Inc.

Seattle, WA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2020-07-23 through 2021-09-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NVL Laboratories, Inc.
4708 Aurora Avenue N.
Seattle, WA 98103
Mr. Nghiep Vi Ly
Phone: 206-547-0100 Fax: 206-634-1936
Email: nick.l@nvllabs.com
http://www.nvllabs.com

ASBESTOS FIBER ANALYSIS **NVLAP LAB CODE 102063-0**

Bulk Asbestos Analysis

Code	***Description***
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

NVL Laboratories, Inc.

4708 Aurora Avenue N., Seattle, WA 98103

Laboratory ID: 101861

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

✓	**INDUSTRIAL HYGIENE**	Accreditation Expires: June 01, 2021
✓	**ENVIRONMENTAL LEAD**	Accreditation Expires: June 01, 2021
✓	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires: June 01, 2021
☐	**FOOD**	Accreditation Expires:
✓	**UNIQUE SCOPES**	Accreditation Expires: June 01, 2021

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation.** Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Beth Bair

Elizabeth Bair
Chairperson, Analytical Accreditation Board

Cheryl O. Morton

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 17 – 09/11/2018

Date Issued: 03/29/2019

Certificate of Completion

This is to certify that

Tanveer E. Khan

has satisfactorily completed
4 hours of online refresher training as an

AHERA Building Inspector

to comply with the training requirements of
TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

178610
Certificate Number

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

Jul 30, 2020 Expires in 1 year.
Date(s) of Training

Exam Score: N/A
(if applicable)

Instructor: Alison Robinson

ARGUS PACIFIC, INC / 21905 64th AVE W, SUITE 100 / MOUNTLAKE TERRACE, WASHINGTON 98043 / 206.285.3373 / ARGUSPACIFIC.COM

STATE OF WASHINGTON

Department of Commerce

Lead-Based Paint Abatement Program

Tanveer E Khan

Has fulfilled the certification requirements of
WAC 365-230
and has been certified to conduct lead-based paint activities as a
Risk Assessor

Certification #	Issuance Date	Expiration Date
6110	01/13/2020	01/13/2023

Certificate of Completion

This is to certify that

Derrick S. Gallard

has satisfactorily completed
4 hours of training as an

AHERA Building Inspector

to comply with the training requirements of
TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

175015
Certificate Number

Instructor

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

Oct 8, 2019 — Expires in 1 year.
Date(s) of Training

Exam Score: N/A
(if applicable)

ARGUS PACIFIC, INC / 21905 64th AVE W, SUITE 100 / MOUNTLAKE TERRACE, WASHINGTON 98043 / 206.285.3373 / ARGUSPACIFIC.COM

STATE OF WASHINGTON

Department of Commerce

Lead-Based Paint Abatement Program

Derrick Gallard

Has fulfilled the certification requirements of
WAC 365-230
and has been certified to conduct lead-based paint activities as a
Inspector

Certification #	Issuance Date	Expiration Date
7090	02/13/2018	02/13/2021