

June 20, 2024 Project No. 02-0019-C

Mr. Victor Singh 901 West 1st Street Cle Elum, WA

singhvictor69@yahoo.com

Subject: Cleanup Action and Groundwater Assessment Report Former Special Interest Auto Wrecking 25923 78th Avenue South Kent, Washington Facility Site ID No. 58738426

Dear Mr. Singh:

Atlas Geosciences NW (Atlas) is pleased to provide you (Client) with this letter report presenting the results of a cleanup action and groundwater assessment at the above referenced property (Subject Property). The Subject Property is located at 25923 78th Avenue South in Kent, Washington (King County parcel number 0004400015) and consists of an approximately 3.93-acre trucking yard improved with a 576-square-foot modular office, a 1,728-square-foot shop building, and a 360-square-foot former automobile dismantling building with associated paved and unpaved areas. Atlas understands that the Client owns the Subject Property, the location of which relative to the surrounding area is shown on Figure 1.

The objectives of the effort described in this report were to bring conditions at the Subject Property into compliance with requirements of the Model Toxics Control Act Regulation (MTCA) as specified in Chapter 173-340 Washington State Administrative Code (WAC).

#### 1.0 BACKGROUND

The Subject Property was formerly occupied by automotive wrecking facilities for approximately 51 years (from at least 1970 until 2021) and has been occupied by a trucking yard since 2021. In 1991, Moran Geotechnical Consultants conducted a Level I Environmental Audit for the Subject Property and several nearby properties on behalf of B&B Partnership, a previous owner of the subject property. The Level I Environmental Audit included the collection of 8 surficial soil samples from the subject property which were analyzed for one or more of the following: total petroleum hydrocarbons (TPH), total lead, benzene, ethylbenzene, toluene, and xylenes. TPH was identified at concentrations up to 23,000 milligrams per kilogram (mg/kg), above the current MTCA Method A soil cleanup level for unrestricted land use (Method A) of 2,000 mg/kg, and total lead was identified at a concentration of 57 mg/kg, below the MTCA Method A cleanup level of

250 mg/kg. Benzene, ethylbenzene, toluene, and xylene were not detected. The Washington Department of Ecology (Ecology) placed the Subject Property on the Confirmed and Suspected Contaminated Sites List (CSCSL) in 1997, as *Green River Auto Wrecking* under Facility Site ID #58738426, based on the use of the Subject Property at that time as an auto wrecking yard.

The Environmental Coalition of South Seattle (ECOSS), in coordination with Ecology, investigated the Subject Property in 1999 and 2000. The investigation included the collection of 2 surficial soil samples by Public Health – Seattle and King County (PHSKC) from the Subject Property which were analyzed for diesel- and oil-range TPH, arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. Although oil-range TPH was identified in soil at concentrations greater than the former (and current) MTCA Method A soil cleanup level, the investigation concluded that Subject Property conditions and operations did not represent a threat to human health or the environment. PHSKC, acting on behalf of Ecology, determined no further action (NFA) was required at the Subject Property, as stated in a letter from PHSKC dated January 21, 2000 and a report from ECOSS dated March 10, 2000. However, the Subject Property remains on the CSCSL, regardless, due to an apparent administrative oversight.

Soil and groundwater conditions at the Subject Property were evaluated further during subsequent subsurface investigations between 2021 and 2023. Figure 2 shows the approximate locations of the associated previous explorations and related Subject Property features. A summary of previous investigation findings and the primary regulatory standards applicable to the Subject Property is presented in the Focused Phase II Subsurface Investigation (Focused Phase II) prepared by Atlas, dated March 17, 2023. Specifically, soils and groundwater were sampled and analyzed for a broad suite of contaminants of concern (COCs). The conclusions of the Focused Phase II narrowed the areas of concern and list of applicable COCs and included the following:

- Oil-range TPH, arsenic, cadmium, and lead were identified in shallow soil east of the shop building at concentrations greater than their respective MTCA Method A cleanup levels. Consequently, these were chosen as the indicator COCs for this area.
- Arsenic was identified in shallow soil south of the shop building at concentrations greater than the MTCA Method A cleanup level and is the primary indicator COC for this area. For the purpose of this cleanup action, and based on its previous detection and common occurrence with arsenic, lead is also treated herein as an indicator COC in this area.
- Other contaminants identified in soil at the Subject Property in previous investigations were not identified upon reinvestigation and were, therefore, considered to be anomalous in nature (consistent with previous determinations by PHSKC).
- Indications of adverse effects to groundwater from historical activities on the Subject Property were not identified in groundwater grab samples collected during previous investigations, except for elevated concentrations of total arsenic, cadmium, chromium, and lead in groundwater grab samples collected from

temporary borings. High turbidity was observed in the groundwater recovered during the previous investigations, and the detected metal concentrations were significantly reduced in filtered groundwater samples subsequently collected from the same locations by Atlas. Turbidity values obtained during this investigation are discussed in Section 4.0.

Pursuant to Client request, Atlas has performed this cleanup action to address contaminated soil identified at the Subject Property and performed a subsequent groundwater assessment to evaluate if an adverse groundwater condition is indicated at the Subject Property following completion of soil remediation.

## 2.0 CLEANUP ACTION METHODS AND PROCEDURES

From August 15 to 22, 2023, Atlas oversaw remediation of contaminated soil east of the shop building and south of the shop building by removal in two remedial excavations: the northern remedial excavation and the southern remedial excavation, respectively. Figures 2 and 3 show the approximate locations of the remedial excavations.

## 2.1 Northern Remedial Excavation and Confirmation Sampling

Atlas oversaw the northern remedial excavation to remove soil containing elevated concentrations of oil-range TPH, arsenic, cadmium, and lead located east of the shop building. During the northern remedial excavation, soils from the sides and bottom of the excavation were field screened for indications of oil-range TPH using water sheen tests and visual and olfactory methods. Soil was also field screened for arsenic, cadmium, and lead using a handheld X-ray fluorescence (XRF) analyzer. The northern remedial excavation was expanded until the results of field screening indicated contaminant concentrations in residual soil were likely less than the applicable MTCA cleanup levels.

Confirmation soil samples were collected based on where field screening and previous analytical results indicated contaminants were most likely to be present in soil. Atlas collected 29 soil samples during the completion of the northern remedial excavation, including 8 confirmation soil samples from the bottom of the excavation, 15 confirmation soil samples from the sidewalls of the excavation, and 6 interim soil samples from excavated soil. The sample locations are shown on Figure 3. Soil samples were collected into laboratory-prepared sample containers using disposable implements, and a new pair of disposable, nitrile gloves were donned prior to collection of each sample.

Excavated soils were managed and disposed of as discussed in Section 2.5.

## 2.2 Southern Remedial Excavation and Confirmation Sampling

Atlas oversaw the southern remedial excavation to remove soil containing elevated concentrations of arsenic and lead located south of the shop building. During the southern remedial excavation, soils from the sides and bottom of the excavation were field screened for indications of arsenic and lead using a handheld XRF analyzer. The southern remedial excavation was expanded until the results of field screening indicated

contaminant concentrations in residual soil were likely less than the applicable MTCA cleanup levels.

As with the northern excavation, confirmation soil samples were collected based on where field screening and previous analytical results indicated contaminants were most likely to be present in soil. Atlas collected 37 soil samples during the completion of the southern remedial excavation, including 11 confirmation soil samples from the bottom of the excavation, 14 confirmation soil samples from the sidewalls of the excavation, and 12 interim soil samples from excavated soil. The sample locations are shown on Figure 3. Soil samples were collected with disposable implements into laboratory-prepared sample containers, and a new pair of disposable, nitrile gloves were donned prior to collection of each sample.

Excavated soils were managed and disposed of as discussed in Section 2.5.

#### 2.3 Soil Sample Management

Soil samples collected for chemical analysis were placed in appropriate sample containers supplied by a Washington state-accredited laboratory subcontracted to Atlas. Each container was labeled with the project number, Subject Property name, date, time, sample number, and sampling personnel. Soil sample containers were placed in a chilled cooler immediately after sampling, and subsequently transported to On-Site Environmental, Inc., of Redmond, Washington (a Washington-accredited analytical laboratory), via courier under strict chain-of-custody procedures.

#### 2.4 Soil Sample Laboratory Analyses

Soil samples were analyzed for one or more of the following compounds, depending on the above-identified indicator COCs:

- Diesel- and oil-range TPH using test method NWTPH-Dx.
- Arsenic, cadmium, and/or lead using test method 6010D.

The soil sample analytical results are discussed in Section 5.1.

## 2.5 Excavated Soil Management and Disposal

Approximately 646.57 tons of adversely-affected soil were removed from the two remedial excavations. Excavated soil was stockpiled at the Subject Property on, and covered by, plastic sheeting pending transport. The soils were subsequently transported to Republic Services transfer facility in Seattle, Washington, where it was loaded onto rail cars for transport to the Roosevelt Regional Landfill in Roosevelt, Washington for disposal. Copies of the waste disposal documentation, including bills of lading, are included in Appendix A. Both excavations were subsequently backfilled and covered with asphalt pavement.

## 3.0 GROUNDWATER ASSESSMENT METHODS AND PROCEDURES

To further investigate groundwater conditions at the Subject Property, Atlas installed four groundwater monitoring wells and subsequently collected groundwater samples from these wells in the fourth quarter of 2023 and the first quarter of 2024.

#### 3.1 Groundwater Monitoring Well Installation

On November 13 and 14, 2023, Atlas oversaw the advancement of four hollow-stem auger borings at the Subject Property (MW-1, MW-2, MW-3, and MW-4) to a maximum depth of 30 feet below ground surface (bgs). The soil borings were advanced to facilitate the installation of groundwater monitoring wells. Borings MW-1 and MW-2 were advanced within the footprints of the southern and northern remedial excavations, respectively. Borings MW-3 and MW-4 were advanced in the inferred downgradient direction of groundwater flow, which was inferred to be north to northwest based on the proximity and direction of flow of the north-adjoining Green River. The hollow stem auger explorations were completed by driving hollow auger casings with a truck-mounted hollow-stem auger drill rig.

Samples were collected during soil boring advancement by lowering a split-spoon sampler on drill rods through the hollow auger drill casing. Calibrated, automatic sampling hammers drove the sampler into the soil 18 inches in advance of the auger. Once the drive interval was completed, the rods were removed from the ground and the split spoon was detached. The shoe of the spoon was removed and the sampler opened to expose the soil sample for observation and screening. Screening was completed using a photoionization detector (PID) and visual and olfactory methods.

Groundwater monitoring wells were then installed in each boring. Well construction was completed in accordance with Chapter 173-160 WAC *Minimum Standards for Construction and Maintenance of Wells*. The groundwater monitoring wells were constructed as follows:

- Ten feet of two-inch diameter, 0.010-inch machine slotted polyvinyl chloride (PVC) well screen was utilized, with a threaded bottom cap.
- A two-inch diameter, threaded, flush-joint PVC riser pipe was connected to the top of the well screen, extending to ground surface.
- Pre-sieved 10/20-grade silica sand for annular sand was packed around the well screen from the bottom of the boring to approximately one to two feet above the top of the well screen and overlain by hydrated bentonite chips to approximately one foot bgs and finished with a concrete seal.
- A lockable j-plug capped the well, which was secured with a traffic-rated, ground surface-flush monument plate.

Groundwater monitoring well construction details are provided in the exploration logs included in Appendix B. The groundwater monitoring wells were subsequently developed to remove visibly turbid groundwater and ensure adequate communication with the

surrounding formation by surging with a submersible pump and associated plastic tubing. Ten calculated well volumes were removed during development of each well. The groundwater monitoring wells were then given approximately 7 days to equilibrate prior to sampling for the first time, as discussed below.

## 3.2 Monitoring Well Gauging and Sampling

On November 21, 2023 and March 29, 2024, Atlas collected groundwater samples from the four monitoring wells. The wells were sampled using the low-flow (minimal drawdown) method and the following procedures at each well:

- The groundwater monitoring well cover was opened, and the static water level was allowed to equilibrate.
- The groundwater level in the well was measured using a water level indicator.
- Groundwater was purged using a dedicated plastic tube extending from the well to a peristaltic pump. Groundwater quality parameters including temperature, electrical conductivity (EC), pH, turbidity, dissolved oxygen (DO), and/or oxidation-reduction potential (ORP) were measured at regular intervals using a flow-through cell. Purging at the well was considered complete when three consecutive readings for temperature, EC, pH, turbidity, DO, and ORP were observed within the applicable, acceptable range for each parameter in accordance with the method. The groundwater parameters measured during purging, flow rates, and instrument calibrations were documented in the field.
- Following the purging activities, the dedicated tubing was disconnected from the flow-through cell while maintaining a constant flow rate and a groundwater sample was then collected for laboratory analysis.

#### 3.3 Groundwater Sample Management

Groundwater samples collected for chemical analysis were managed in accordance with the procedures outlined in Section 2.3 above.

#### 3.4 Groundwater Laboratory Analysis

The groundwater samples were analyzed for the following compounds:

- Diesel- and oil-range TPH using test method NWTPH-Dx;
- Total and dissolved arsenic, cadmium, and lead using test method 200.8.

The groundwater analytical results are discussed in Section 5.2.

#### 4.0 SUBSURFACE CONDITIONS

Subsurface conditions were inferred from observations made during the remedial excavations and groundwater assessment.

Suspect staining and odors were not observed in residual soil at the limits of the northern and southern remedial excavations. The bottom of the northern remedial excavation was 4.5 feet bgs and the bottom of the southern remedial excavation was 4 feet bgs. The lateral limits of both remedial excavations are shown on Figure 3.

Suspect staining and odors were also not observed in soil encountered during drilling of borings for the groundwater assessment. PID readings collected from soil encountered during soil boring advancement ranged from 0.3 volumetric parts per million (vppm) to 1.8 vppm, but correlated to PID readings in ambient air at the Subject Property. PID readings and observations pertaining to staining and/or odors are noted on the exploration logs (Appendix B).

Groundwater was measured between 19.50 and 21.11 feet below the top of the well casing (btoc) in groundwater monitoring wells at the Subject Property during the fourth quarter of 2023 and between 18.86 and 20.11 feet btoc during the first quarter of 2024. During both events, the measured groundwater flow direction was to the northeast. Figures 4 and 5 show the groundwater elevations observed at the Subject Property in November 2023 and March 2024, respectively. Groundwater recovered initially was visibly turbid and the turbidity ranged from 12.63 to 258.78 nephelometric turbidity units (NTUs) at the start of purging. The groundwater recovered following well development and purging was visible clear, and turbidity was reduced to between 3.04 and 8.29 NTUs at the point of sample collection in November 2023 and to between 2.90 and 9.10 NTUs at the point of sample collection in March 2024.

## 5.0 CONFIRMATION SAMPLING RESULTS

The soil and groundwater analytical results are summarized in Table 1: Northern Remedial Excavation Soil Sample Analytical Results, Table 2: Southern Remedial Excavation Soil Sample Analytical Results, and Table 3: Groundwater Sample Analytical Results. The laboratory analytical reports and sample chain-of-custody forms are included in Appendix C.

#### 5.1 Confirmation Soil Sample Analytical Results

Diesel and oil-range TPH, arsenic, cadmium, and lead were not detected or were detected at concentrations less than their applicable MTCA Method A soil cleanup levels in samples collected from the vertical and lateral extents of the northern remedial excavation. Arsenic and lead were not detected or were detected at concentrations less than their applicable Method A soil cleanup levels in samples collected from the lateral and vertical extents of the southern remedial excavation.

#### 5.2 Confirmation Groundwater Sample Analytical Results

Diesel- and oil-range TPH were detected in the groundwater sample collected from groundwater monitoring well MW-2 in November 2023 at concentrations of 200 micrograms per liter ( $\mu$ g/L) and 400  $\mu$ g/L, respectively, which is less than the applicable Method A groundwater cleanup level. Based on review of the chromatogram for the

groundwater sample collected from MW-2 (Appendix C) and the historical use of both diesel and oil at the Subject Property, these detections do not appear to represent a single petroleum product. Diesel- and oil-range TPH were not detected in other groundwater samples collected at the Subject Property in November 2023 or in any of the groundwater samples collected at the Subject Property in March 2023 (including from MW-2).

Total and dissolved arsenic were detected in groundwater from one or more monitoring wells at concentrations below the applicable Method A groundwater cleanup level. Cadmium and lead were not detected in groundwater samples collected from the Subject Property.

## 5.3 Quality Assurance/Quality Control Results

The analytical results for the current investigation were checked for completeness immediately upon receipt from the laboratory to ensure that data and QA/QC information requested were present. Data quality was assessed by considering hold times, surrogate recovery, method blanks, matrix spike and matrix spike duplicate (MS/MSD) recovery, and detection limits. Our evaluation assumes that the QA/QC is correct as reported by the laboratory, and merely provides an interpretation of the QA/QC results.

Hold Times. All analyses were completed within specified hold times.

Surrogate Recoveries. All surrogate recoveries were within laboratory limits.

Method Blanks. Analytes were not detected in any of the laboratory method blanks.

<u>MS/MSD Results</u>. MS and MSD recoveries were all within laboratory limits, and Relative Percent Differences (RPDs) between MS and MSD recoveries were all within laboratory limits.

<u>Laboratory Reporting Limits</u>. Reporting limits for the soil and groundwater analytical results were below relevant MTCA cleanup levels.

Based upon our interpretation of quality control information provided by the laboratory, it is our opinion that the overall dataset is useable as qualified for the purposes of this Cleanup Action and Groundwater Assessment Report.

## 6.0 INVESTIGATION-DERIVED WASTE MANAGEMENT

Soil cuttings, purge water, and equipment cleaning water generated during the field activities were placed into eleven Department of Transportation (DOT)-approved, 55-gallon steel drums, which were left on-site for subsequent characterization and disposal. Disposal of drummed material is not included in this scope of work. Waste characterization samples should be collected from each drum prior to disposal.

## 7.0 CONCLUSIONS AND RECOMMENDATIONS

A cleanup action was completed and a groundwater assessment was subsequently conducted at the Subject Property to provide confirmation of groundwater conditions after remediation had been performed. Based on the confirmation soil and groundwater sampling and analytical results, Atlas concludes the following:

- The soil sample analytical results did not indicate remaining adversely-affected soil
  was present at the Subject Property. Remedial excavations were successful in
  achieving compliance with the MTCA regulation.
- The groundwater sample analytical results did not indicate an adverse groundwater condition at the Subject Property. Groundwater appears to be compliant with the MTCA regulation.

Based on the NFA determination previously issued by PHSKC, on Ecology's behalf, and on the findings of the confirmation soil and groundwater sampling following this remediation effort, Atlas requests that a no further action determination be granted by Ecology for the Subject Property.

## 8.0 LIMITATIONS AND EXCEPTIONS

These cleanup action and groundwater assessment activities do not eliminate uncertainty regarding Subject Property hazards not covered by the scope of work or the potential for future identification of adversely affected media at the Subject Property. The findings, conclusions, and/or recommendations of these activities are based strictly on information available, and conditions observed, at the time of this assessment. Subsequent changes to Subject Property conditions, such as Subject Property redevelopment or changes to ground cover, or changes in applicable regulatory requirements have the potential to materially affect the conclusions and/or recommendations of this report. If any such changes are apparent, the Client should contact Atlas about reevaluating the findings of this investigation to incorporate the new information. The conclusions and/or recommendations are not to be construed as legal interpretation or advice. No warranties, express or implied, are intended or made herein.

### 9.0 CLOSURE

This report was prepared for the exclusive use of the Client, and its agents for specific application to the Subject Property, and is subject to the agreed-upon terms and conditions included in our proposal for this scope of work. Atlas personnel performed this assessment in accordance with generally accepted standards of care that existed in the State of Washington at the time of this study. Our findings and conclusions have been prepared in accordance with generally accepted professional practice in the area at this time. We make no other warranty, either express or implied.

Former Special Interest Auto Wrecking Kent, Washington

We appreciate this opportunity to provide these services. Please do not hesitate to call if you have any questions.

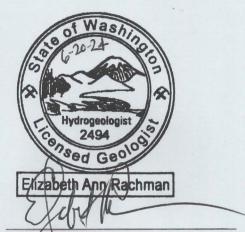
Sincerely, ATLAS GEOSCIENCES NW

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Christopher Smith, G.I.T. Project Geologist

Attachments:

Lánhie Smith, CHMM Principal Environmental Scientist



Elizabeth Rachman, L.G., L.Hg. Principal Hydrogeologist

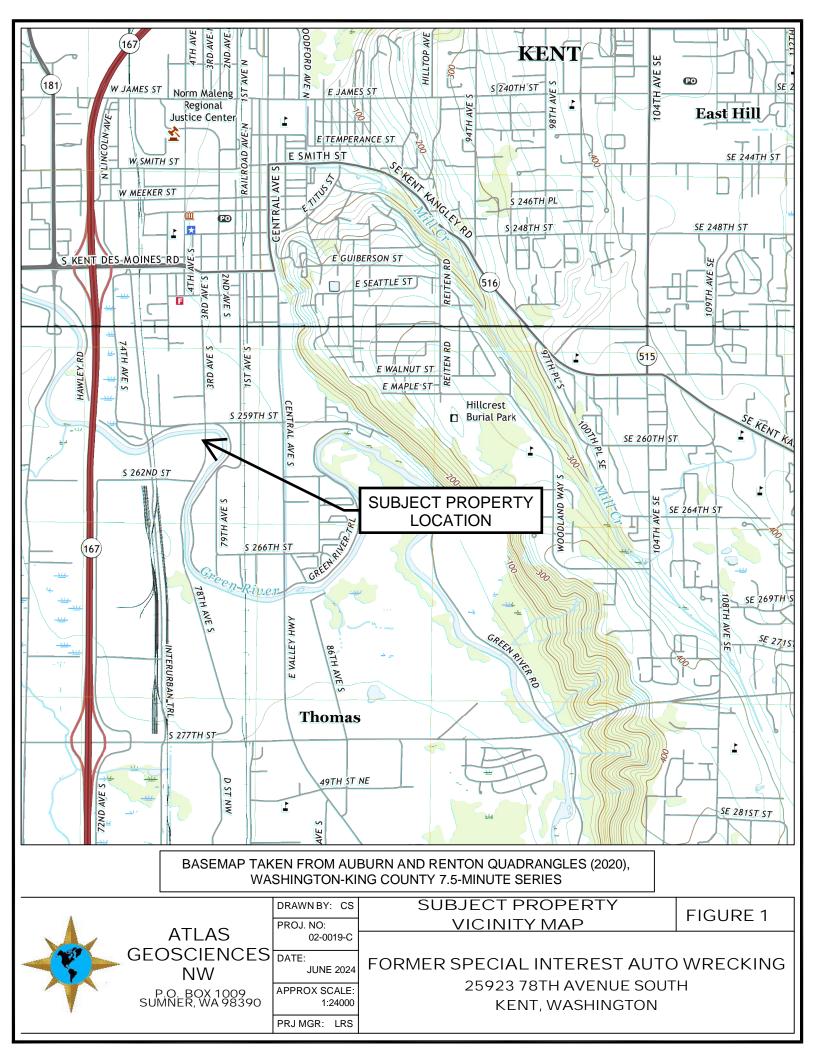
Figure 1:Subject Property LocationFigure 2:Subject Property PlanFigure 3:Remedial ExcavationsFigure 4:Groundwater Elevations – November 2023Figure 5:Groundwater Elevations – March 2024Table 1:Northern Excavation Soil Sample Analytical Results

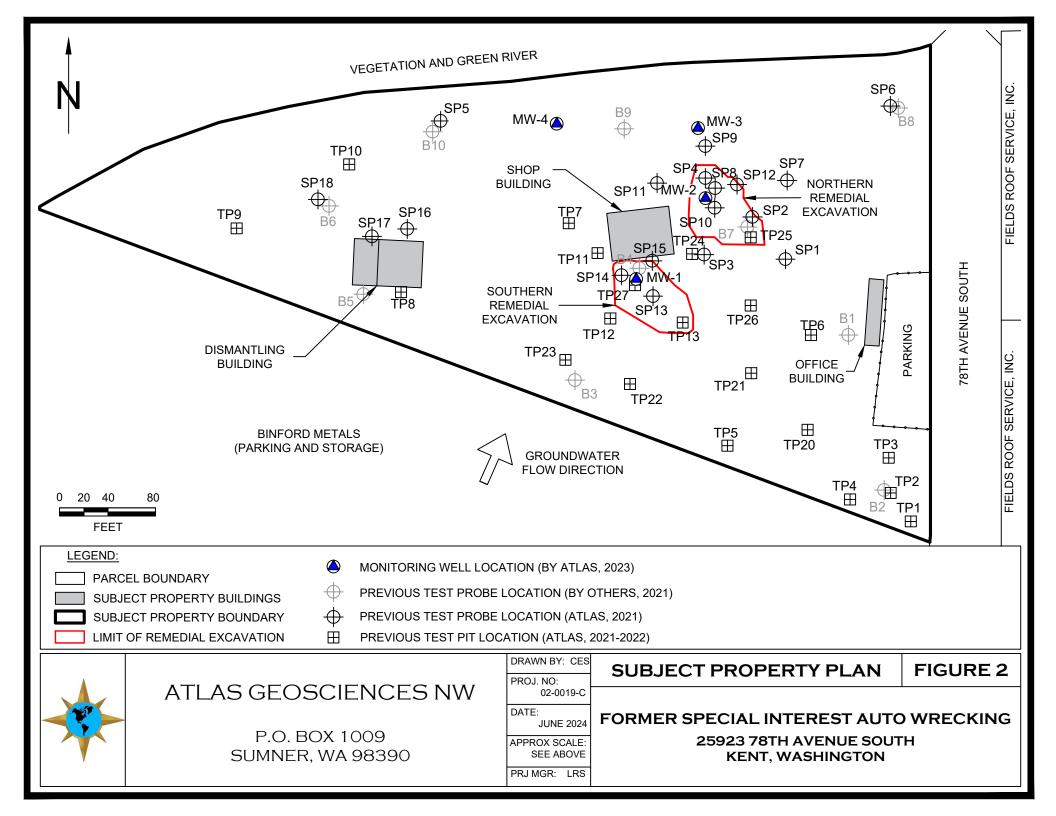
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Table 2:	Southern Excavation Soil Sample Analytical Results
Table 3:	Groundwater Sample Analytical Results

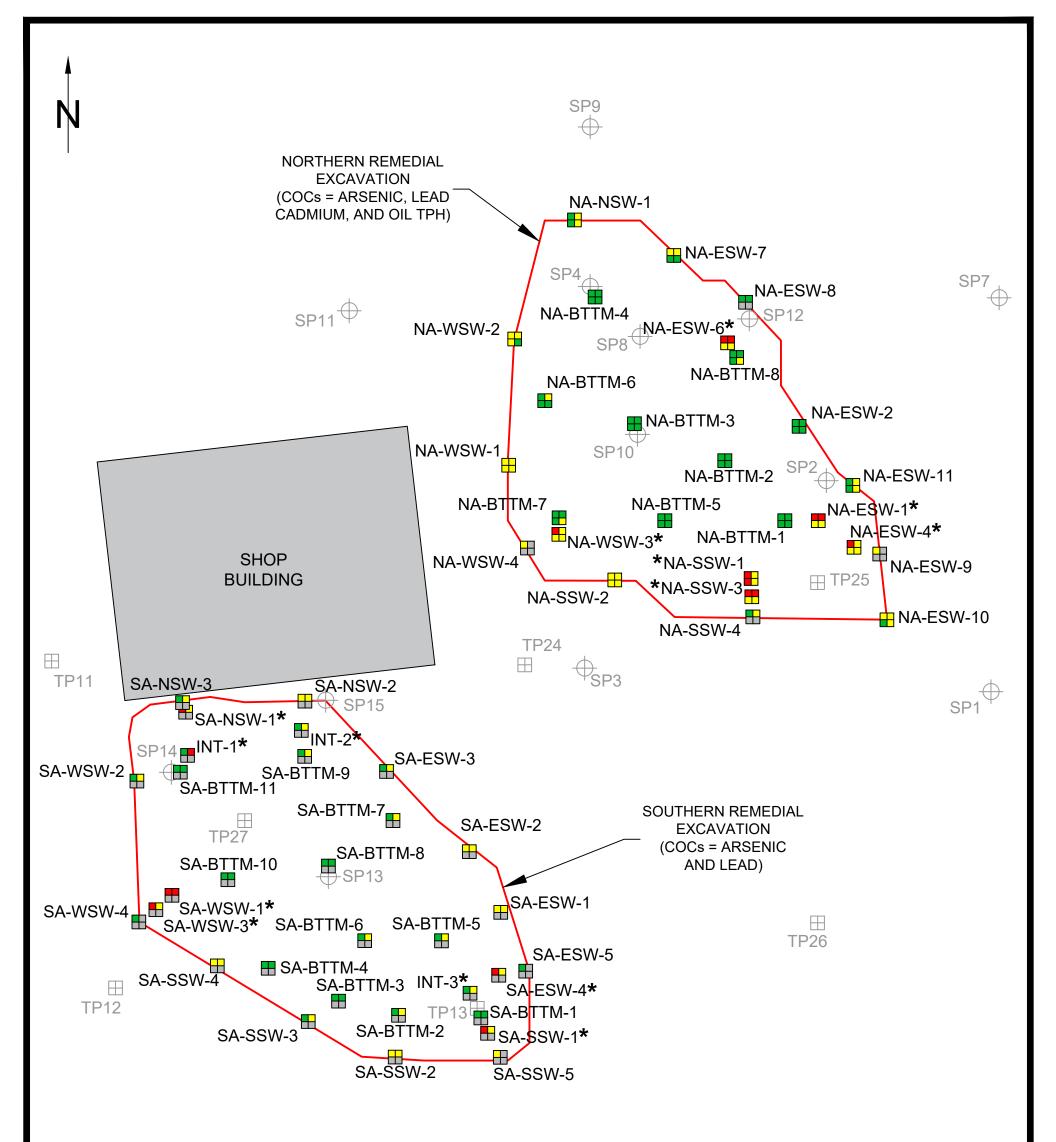
Appendix A:Waste Disposal DocumentationAppendix B:Exploration LogsAppendix C:Laboratory Analytical Reports and Sample Chain-of-<br/>Custody Forms

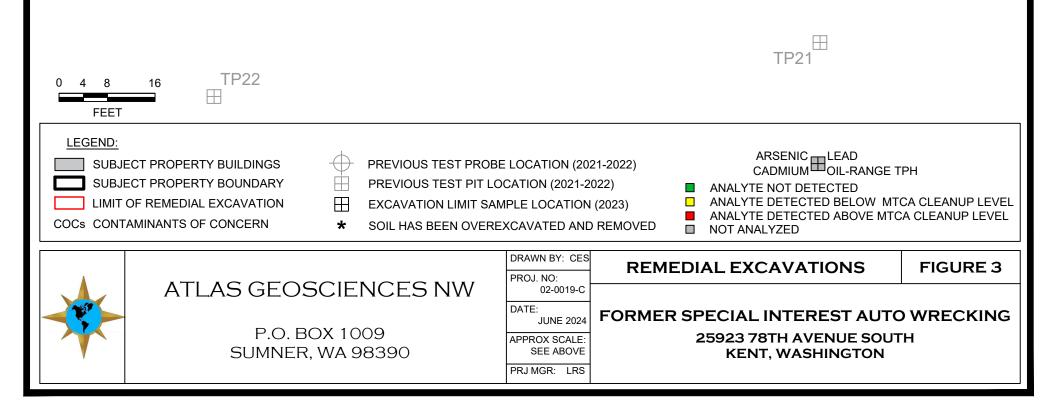


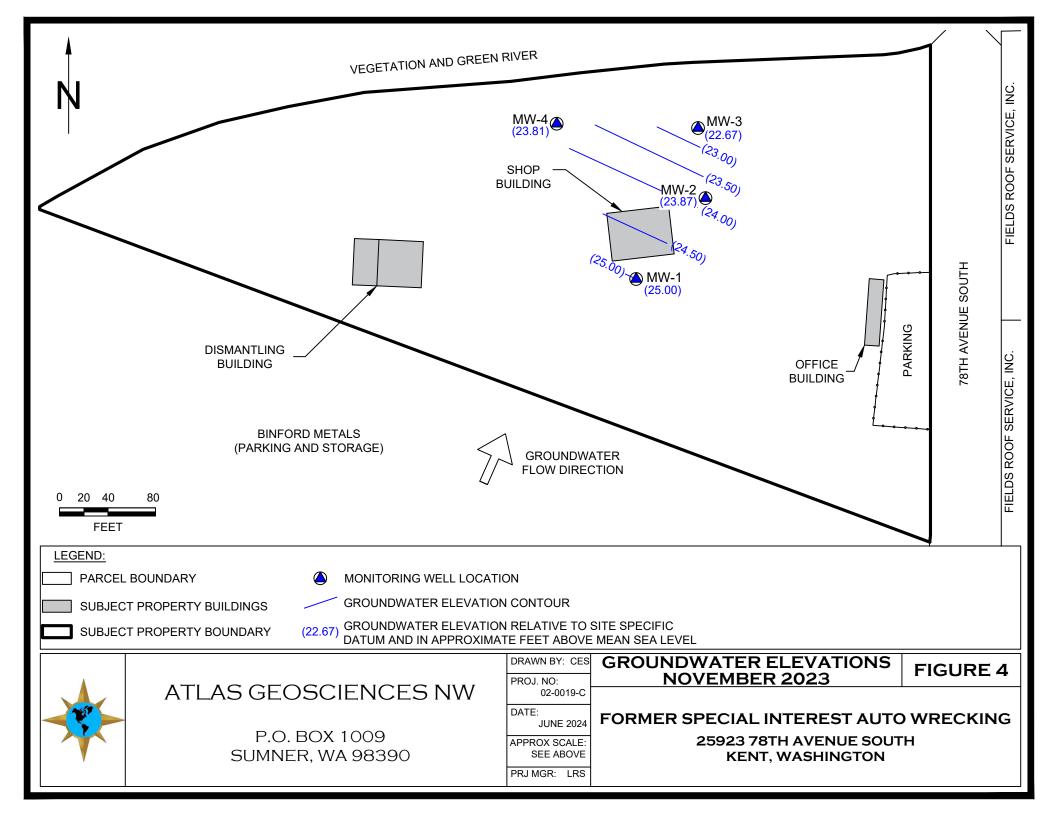
## FIGURES

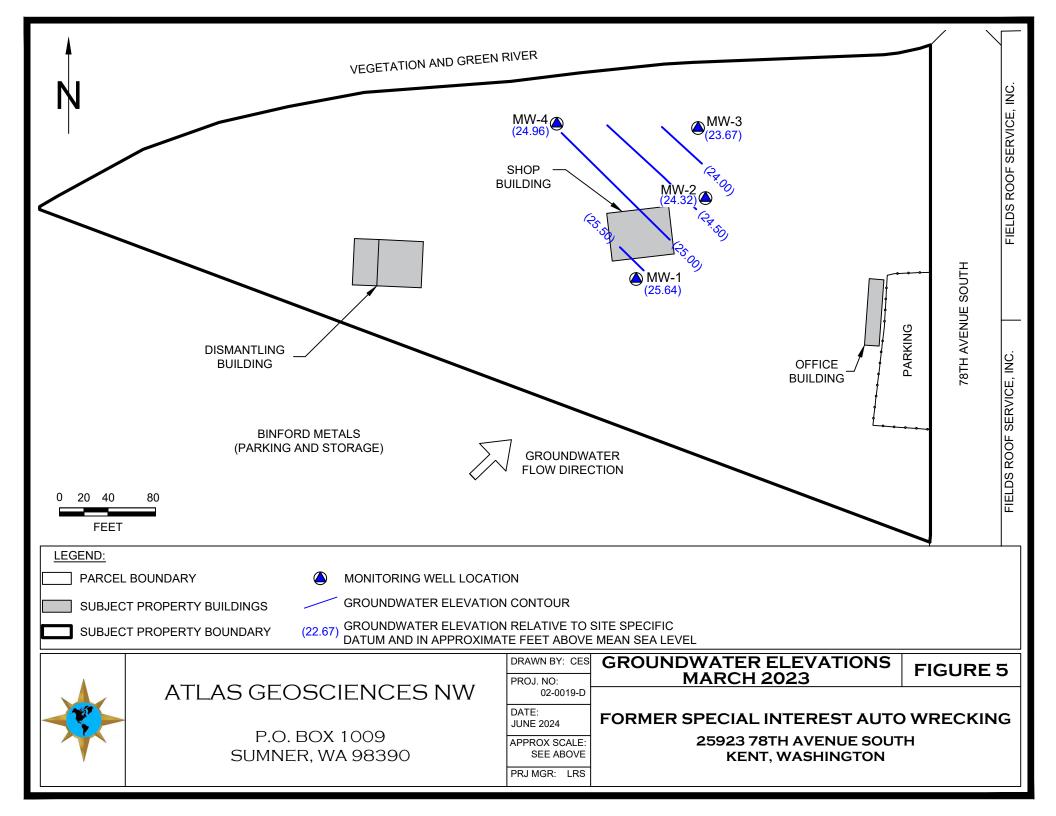














# TABLES

#### TABLE 1

#### Northern Remedial Excavation Soil Sample Analytical Results Former Special Interest Auto Wrecking 25923 78th Avenue South Kent, Washington

			Sample Depth	Petroleum I	Hydrocarbons		Metals	
Sample Location	Sample Name	Sample Date	(feet below ground surface)	Diesel	Lube Oil	Arsenic	Cadmium	Lead
MTCA Method A Cle	anup Level <sup>1</sup>			2,000	2,000	20	2	250
Results reported in m	nilligrams per kilogr	am			-		· · ·	
	NA-BTTM-1-2	8/16/2023	2	<30	<60	<12	<0.60	<6.0
	NA-BTTM-2-3	8/16/2023	3	<27	<53	<11	<0.53	<5.3
	NA-BTTM-3-3	8/17/2023	3	<26	<53	<11	<0.53	<5.3
Excavation	NA-BTTM-4-4.5	8/17/2023	4.5	<27	<53	<11	<0.53	<5.3
Bottom	NA-BTTM-5-3	8/17/2023	3	<28	<56	<11	<0.56	<5.6
	NA-BTTM-6-4.5	8/17/2023	4.5	<27	<55	<11	<0.55	6.2
	NA-BTTM-7-4	8/21/2023	4	<29	62	<12	<0.59	<5.9
	NA-BTTM-8-4.5	8/21/2023	4.5	<26	53	<11	<0.53	<5.3
Northern Side	NA-NSW-1-2	8/17/2023	2	<27	58	<11	<0.54	17
Wall	NA-NSW-1-3.5	8/18/2023	3.5	<27	<53	<11	<0.53	<5.3
	NA-ESW-2-0.5	8/16/2023	0.5	<27	<54	<11	<0.54	<5.4
	NA-ESW-7-1.5	8/17/2023	1.5	<28	<56	15	<0.56	31
Eastern Side	NA-ESW-8-1.5	8/21/2023	1.5			<11		<5.4
Wall	NA-ESW-9-1.5	8/22/2023	1.5			17		
	NA-ESW-10-1.5	8/22/2023	1.5	<30	76	16	<0.60	19
	NA-ESW-11-1.5	8/22/2023	1.5	<30	110	<12	<0.59	6.0
Southern Side	NA-SSW-2-1	8/17/2023	1	<95	1,400	11	1.4	150
Wall	NA-SSW-4-1	8/21/2023	1			<10		49
	NA-WSW-1-1	8/17/2023	1	<27	120	18	0.99	110
Maatarn Sida	NA-WSW-1-2.75	8/17/2023	2.75	<46	400	15	0.85	91
Western Side Wall	NA-WSW-2-1.5	8/17/2023	1.5	<28	<56	18	0.59	38
vvali	NA-WSW-2-4	8/18/2023	4	<26	<52	<10	<0.52	<5.2
	NA-WSW-4-1.5	8/21/2023	1.5			18		
	NA-ESW-1-1.5	8/16/2023	1.5	<29	210	41	0.97	280
	NA-ESW-4-1.5	8/17/2023	1.5	<60	590	24	0.86	110
Interim	NA-ESW-6-1.5	8/17/2023	1.5	<28	220	43	1.5	370
(Removed)	NA-SSW-1-1	8/16/2023	1	<29	120	51	2.3	220
	NA-SSW-3-1	8/17/2023	1	<47	490	43	1.6	460
	NA-WSW-3-1.5	8/17/2023	1.5	<30	110	41	1.5	110

Notes:

<sup>1</sup>MTCA Standard Method A Soil Cleanup Levels for Unrestricted Land Uses, Chapter 173-340 Washington Administrative Code, Table 740-1.

--- Not analyzed.

<30 The analyte was not detected at a concentration greater than the indicated reporting limit.</p>

6.2 Bold value indicates contaminant detected.

41 Bold value with yellow shading indicates concentration greater than the applicable cleanup level.

- MTCA Model Toxics Control Act
- ND Not detected.

#### TABLE 2

#### Southern Remedial Excavation Soil Sample Analytical Results Former Special Interest Auto Wrecking 25923 78th Avenue South Kent, Washington

			Sample Depth	Met	als
Sample Location	Sample Name	Sample Date	(feet below ground surface)	Arsenic	Lead
MTCA Method A Cleanup	Level <sup>1</sup>			20	250
Results reported in milligrar	ms per kilogram				
	SA-BTTM-1-4	8/15/2023	4	<13	6.5
	SA-BTTM-2-4	8/15/2023	4	<13	13
	SA-BTTM-3-4	8/15/2023	4	<13	<6.6
	SA-BTTM-4-4	8/15/2023	4	<13	<6.4
	SA-BTTM-5-3	8/15/2023	3	<13	7.1
<b>Excavation Bottom</b>	SA-BTTM-6-3.5	8/15/2023	3.5	<13	6.9
	SA-BTTM-7-3	8/15/2023	3	<11	19
	SA-BTTM-8-3.5	8/15/2023	3.5	<13	<6.3
	SA-BTTM-9-3.5	8/16/2023	3.5	<12	21
	SA-BTTM-10-3.5	8/16/2023	3.5	<12	<6.2
	SA-BTTM-11-3.5	8/16/2023	3.5	<12	<6.2
	SA-NSW-2-0.5	8/16/2023	0.5	<11	230
Northern Side Wall	SA-NSW-2-1.5	8/16/2023	1.5	13	180
	SA-NSW-3-1.5	8/18/2023	1.5	<13	16
	SA-ESW-1-1.5	8/15/2023	1.5	19	89
	SA-ESW-2-2.5	8/15/2023	2.5	18	43
Eastern Side Wall	SA-ESW-3-0.5	8/16/2023	0.5	<11	68
	SA-ESW-5-2.5	8/17/2023	2.5	<13	
	SA-SSW-2-1.5	8/15/2023	1.5	14	130
	SA-SSW-3-1.5	8/15/2023	1.5	<11	67
Southern Side Wall	SA-SSW-4-1.5	8/15/2023	1.5	18	76
	SA-SSW-4-3	8/18/2023	3	<12	<6.2
	SA-SSW-5-3	8/17/2023	3	15	
	SA-WSW-2-1.5	8/16/2023	1.5	<11	54
Western Side Wall	SA-WSW-4-1.5	8/22/2023	1.5	<12	
	INT-1	8/15/2023	0	<11	720
	INT-2	8/15/2023	0	<11	7.9
	INT-3	8/15/2023	0	<11	7.4
	SA-NSW-1-1.5	8/16/2023	1.5	57	250
	SA-NSW-1-2.5	8/18/2023	2.5	<12	6.5
	SA-ESW-4-0.5	8/16/2023	0.5	37	100
Interim (Removed)	SA-ESW-4-1.5	8/16/2023	1.5	<10	140
	SA-SSW-1-1.5	8/15/2023	1.5	14	99
	SA-SSW-1-3	8/15/2023	3	32	83
	SA-WSW-1-1.5	8/16/2023	1.5	32	300
	SA-WSW-1-2.5	8/18/2023	2.5	<13	<6.7
	SA-WSW-3-1.5	8/17/2023	1.5	22	120

#### Notes:

<sup>1</sup>MTCA Standard Method A Soil Cleanup Levels for Unrestricted Land Uses, Chapter 173-340 Washington Administrative Code, Table 740-1.

Not analyzed
The analyte was not detected at a concentration greater than the indicated reporting limit.
Bold value indicates contaminant detected.
Bold value with yellow shading indicates concentration greater than the applicable cleanup level.
Model Toxics Control Act

#### Table 3

Groundwater Sample Analytical Results

Former Special Interest Auto Wrecking

## 25923 78th Avenue South

#### Kent, Washington

		Botroloum H	Petroleum Hydrocarbons		Metals							
Sample Location	Sample Date	Felloleulli	iyurocarbons	Total			Dissolved					
		Diesel	Oil	Arsenic	Cadmium	Lead	Arsenic	Cadmium	Lead			
MTCA Method A Gro	undwater Cleanup Level <sup>1</sup>	500	500	5	5	15	5	5	15			
Results reported in mi	icrograms per liter	-										
MW-1	11/21/2023	<240	<240	2.08	<0.100	<0.500	2.09	<0.100	<0.500			
10100-1	3/29/2024	<210	<210	<3.3	<4.4	<1.1	<3.0	<4.0	<1.0			
MW-2	11/21/2023	220	400	2.95	<0.100	<0.500	3.13	<0.100	<0.500			
10100-2	3/29/2024	<210	<210	<3.3	<4.4	<1.1	<3.0	<4.0	<1.0			
MW-3	11/21/2023	<230	<230	0.987	<0.100	<0.500	0.902	<0.100	<0.500			
10100-3	3/29/2024	<200	<200	<3.3	<4.4	<1.1	<3.0	<4.0	<1.0			
MW-4	11/21/2023	<230	<230	2.56	<0.100	<0.500	2.68	<0.100	<0.500			
MVV-4	3/29/2024	<200	<200	3.5	<4.4	<1.1	<3.0	<4.0	<1.0			

#### Notes:

<sup>1</sup>MTCA Method A Cleanup Level for Groundwater, Chapter 173-340 Washington Administrative Code, Table 720-1.

<240 The analyte was not detected in the sample at a concentration greater than the indicated method reporting limit.</p>

**2.08** Bold value indicates concentration of analyte detected in sample.

**5** Bold value with yellow shading indicates concentration greater than the applicable cleanup level.

MTCA Model Toxics Control Act.



## **APPENDIX A**

## Waste Disposal Documentation

		OSAL INTERMODAL 425 r Seattle, WA	-977-4127	01	10189	936		
		·		WEIGHMASTEF	IN -	Stephanie A	. OUT -	Karyn B.
		Harsh Singh		DATE/TIME IN	12/13/23	10:38 am	TIME OUT 12/13/	23 10:59 an
	. W lst e Elum,	t St , WA 98922		VEHICLE		CONT		20 10.05 cm
	,			REFERENCE	29 SINGH	AND SONS		
Contra	ct:TB-	13401		BILL OF LADIN	IG			
<b>p</b>								
		e In GROSS WEIGHT Out TARE WEIGHT	60,820 NET TONS 26,840 NET WEIGHT	16.99 33,980			INBOUN INVOIC	
QTY.	UNIT		DESCRIPTION		RATE	EXTENSION	TAX	TOTAL
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REGIONAL	L DISP	OSAL INTERMODAL 425	-977-4127		ET# 10189	945 CELL		
Brd and	lande	r Seattle, WA		WEIGHMASTER	R			
CUSTOMER					Karyı		TIME OUT	
	3815 - . W 1st	Harsh Singh 5 St		1	12/13/23	1:31 pm	12/13/	23 1:31 pn
Cle	e Elum,	WA 98922		VEHICLE	29 SINGH	AND SONS	AINER	
				REFERENCE		•••••••••••••••••••••••••••••••••••••••	~	
Contra	ct:TB-	13401		BILL OF LADIN	G			
<b>-</b>	Scal	e In GROSS WEIGHT	56,780 NET TONS	14.97			INBOUN	П
		Out TARE WEIGHT		29,940			INBOON	
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333 901	3815 - L W 1st	Harsh Singh t St			12/13/23	1:40 pm	12/13/2	23 2:01 pn
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	3815 – L W 1st	Harsh Singh		1	2/14/23	7:32 am	12/14/	23 7:42 an
		, WA 98922		VEHICLE	12 GARY	B TRUCKING	AINER	
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CUSTONER	815 -	Harsh Singh		DATE/TIME IN			TIME OUT	
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<b>.</b>		e In GROSS WEIGHT Out TARE WEIGHT	56,580 NET TONS 24,280 NET WEIGHT	16.15 INBOUND 32,300 INVOICE					
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		e In GROSS WEIGHT Out TARE WEIGHT	56,040 NET TONS 30,000 NET WEIGHT 2	13.02 26,040			INBOUNI INVOICE		
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3rd and	lande	r Seattle, WA		WEIGHMASTE	R Step	nanie A.		****
CUSTOMER	015	Harsh Singh					TIME OUT	
	3815 - . W 1st				12/14/23	12:36 pm	12/14/2	23 12:36 pm
Cle	e Elum,	, WA 98922		VEHICLE	29 SINGH	AND SONS	AINER	
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		e In GROSS WEIGHT	56,740 NET TONS	13.37			INBOUND	
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901	L W 1st	Harsh Singh t St , WA 98922		DATE/TIME IN 12/14/23 12:42 pm 12/14/23 12:42 pm VEHICLE 12 GARY B TRUCKING REFERENCE						
Contra	ct:TB-	13401		BILL OF LADIN	NG					
<b>F</b>		e In GROSS WEIGHT Out TARE WEIGHT	55,880 NET TONS 24,200 NET WEIGHT	15.84 31,680			INBOUNI INVOICE			
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<b>1</b>		e In GROSS WEIGHT Out TARE WEIGHT	56,760 NET TONS 30,000 NET WEIGHT	13.38 26,760			INBOUNI INVOICE			
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		e In GROSS WEIGHT Out TARE WEIGHT	54,960 24,200	NET TONS NET WEIGHT	15.38 30,760				INBOUND INVOICE	
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			· · · · · · · · · · · · · · · · · · ·	IN - Stephanie A. OUT - LARRY C.						
CUSTOMER	815 -	Harsh Singh		DATE/TIME IN 12/15/23 7:41 am 12/15/23 7:54 am						
	l W 1st e Elum,	, WA 98922		VEHICLE		B TRUCKING				
				REFERENCE	12 GANI	BIROCKING				
Contra	ct:TB-	13401		BILL OF LADIN	IG					
<b>P</b>										
		e In GROSS WEIGHT Out TARE WEIGHT	57,180 NET TONS 24,380 NET WEIGHT	16.40 32,800			INBOUNI INVOICE			
QTY.	UNIT		DESCRIPTION		RATE	EXTENSION	TAX	TOTAL		
0.00	YD	Tracking QTY								
16.40	tn	SW-CONT W/FUEL	Origin:KENT/KING 100%							
<b></b>			It's the Righ	it Thing!						
							<u>A</u>	NET AMOUNT		
			ed commodity was weighed, measured ate, who is a recognized authority of ac		d					
by chapter	15.80 R	CW administered by the Was	shington State Department of Agricultu					TENDERED		
		EINDICATOR 96135341 = E-	-Seal 2000 ⊛≓ E <mark>≏Seali2006</mark> istomer acknowledges that	he or she has read and	understands the	terms and conditions		CHANGE		
0	n the rever	se side and that he or she has the	authority to sign this document on behalf of th	ne customer.				CHECK#		
RS-F0421	JPR (07/1	2)	SIGNAT	URE		CHANGE		Oncorre		
						CHECK :				
REGIONAL	L DISP	OSAL INTERMODAL 425	-977-4127	SOTE TICK	ET# 1018	994 CELL				
		r Seattle, WA		WEIGHMASTER	0					
	T-11-1-1211-121-121-121-121-121-121-121-				IN -	Stephanie A	. OUT -	LARRY C.		
		Harsh Singh		DATE/TIME IN	12/15/23	8:36 am	TIME OUT 12/15/2	23 8:49 an		
	l W 1st e Elum,	, WA 98922		VEHICLE	29 SINGH	CONT	AINER			
				REFERENCE	29 5110011	AND SONS				
Contra	ct:TB-	13401		DUL OF LADIA	10		~			
				BILL OF LADIN	IG					
	Scal	e In GROSS WEIGHT	60,040 NET TONS	17.13			INBOUNI	)		
	Scale	Out TARE WEIGHT	25,780 NET WEIGHT	34,260			INVOICE	1		
QTY.	UNIT		DESCRIPTION		RATE	EXTENSION	TAX	TOTAL		
0.00	YD	Tracking QTY								
17.13	tn	SW-CONT W/FUEL	Origin:KENT/KING 100%				N			
		2						÷-		
		×								
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			2			1		NET AMOUNT		
THIS IS TO	CERTI	FY that the following describe	ed commodity was weighed, measured	l, or counted by a						
			ate, who is a recognized authority of ac shington State Department of Agricultu		d			TENDERED		
INBOUND	- SCALE	INDICATOR 96135341 = E-	Seal 2000							
OUTBOUN	D un SCA	Se side and that he or she has the	ઢા <del>તા</del>	he or she has read and the customer.	understands the	terms and conditions		CHANGE		
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RS-F0421	JPR (07/1:	2)	SIGNAT	URE		CHANGE	· \			
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		OSAL INTERMODAL 425 r Seattle, WA	-977-4127		01	10189	997		
901	L W 1st	Harsh Singh St WA 98922			VEHICLE	2/15/23		TIME OUT 12/15/: AINER	23 9:09 an
Contra	ct:TB-	13401			BILL OF LADIN	G			
		e In GROSS WEIGHT Out TARE WEIGHT	55,100 NET TONS 24,380 NET WEIGHT	15. 30,7				INBOUNI INVOICH	
QTY.	UNIT		DESCRIPTION			RATE	EXTENSION	ТАХ	TOTAL
0.00 15.36	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%						
Na			SAFI It's the Rig	ETY Eth ht Thi	ng!				NET AMOUNT
weighmast by chapter INBOUND OUTBOUN	ter, whose 15.80 R - SCALE	e signature is on this certifica CW administered by the Was INDICATOR 96135341 = E- MEINDICATOR 1955300033	ed commodity was weighed, measure ate, who is a recognized authority of a shington State Department of Agricult Seal 2000 3 H E-Seal 2006 stomer acknowledges th authority to sign this document on behalf of	accuracy ture. at he or s	, as prescribed		terms and conditions		TENDERED
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	-	OSAL INTERMODAL 425 r Seattle, WA	-977-4127						
901	L W 1st	Harsh Singh 5 St , WA 98922			VEHICLE		10:06 am		23 10:06 an
Contra	ct:TB-	13401		×	BILL OF LADIN	G			
		e In GROSS WEIGHT Out TARE WEIGHT	52,920 NET TONS 25,780 NET WEIGHT	13. 27,1				INBOUNI INVOICI	
QTY.	UNIT		DESCRIPTION			RATE	EXTENSION	ТАХ	TOTAL
0.00 13.57	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%						÷
		TY that the following describe	It's the Rig						NET AMOUNT
weighmast by chapter INBOUND	er, whose 15.80 R - SCALE	e signature is on this certifica CW administered by the Was INDICATOR 96135341 = E-	ate, who is a recognized authority of a shington State Department of Agricult Seal 2000	accuracy ture.	, as prescribed				TENDERED
OUTBOUN	ID mSCA	LEINDICATOR: 195530003	3िन्त िनSeall2006.stomer acknowledges th authority to sign this document on behalf of	at he or sl the custor	he has read and u mer.	inderstands the	terms and conditions		CHANGE CHECK#
RS-F042L	JPR (07/12	2)	SIGNA	TURE			CHANGE: CHECK :		

Sentration State     Harsh Singh     Singht			OSAL INTERMODAL 425 r Seattle, WA	-977-4127	01 WEIGHMASTE	10190	hanie A.				
Sociale To SECON RESIST         52,500         NET NEEDED         14,23         INFORMATION         Net NEEDED         16,20         INFORMATION           14,33         Table Post TAble Net Needed         Origin : SERV/Acade 10.05         Net Needed	901	. W 1st	t St	~~~~	DATE/TIME IN         DATE/TIME OUT           12/15/23         10:40 am         12/15/23         10:40           VEHICLE         CONTAINER           12         GARY B         TRUCKING						
Table Out TARE WEIGHT     24,380     NET WEIGHT     28,580     INVOICE       TWO     Weight State     Descention     NAT     Descention     NAT     Descention     NAT     Total       14,29     Tr     Secont State     Descention     NAT     Descention     NAT     Descention     NAT     Total       14,29     Tr     Secont State     Descention     Descention     NAT     Descention     NAT     Descention       14,29     Tr     Secont State     Descention     Descention     Nat     Total       14,29     Tr     Secont State     Descention     Descention     Nat     Total       14,29     Tr     Secont State     Descention     Descention     Descention     Descention       Note     Descention     Descention     Descention     Descention     Descention       Note     Descention     Descention     Descention     Descention     Descention       NOUTROUM     Descention     Descention     Descention     Descention     Descention       NOUTROUM     Descention     Descention     Descention     Descention     Descention       NOUTROUM     Descention     Descention     Descention     Descent     Descention       NOUT	Contra	ct:TB-	13401		BILL OF LADIN	NG					
0.00 14.23     11     TackLang QCT SH-CONT W/FUEL     Origin:SENT/RING 1001     Internet of the sentence											
14.29       tn       Sev-Cont #/FUSEL       Grig is 16391/6110 108       Image: Control of Contro of Contro of Control of Contro of Control of Contro of	QTY.	UNIT		DESCRIPTION		RATE	EXTENSION	TAX	TOTAL		
THIS IS TO CERTIFY that the following described commodity was weighted understands to the set and understands the terms and conditions on the reserve side and that he or the has the surfactly to age this document on baland of the cudorer.     INTRODUCTION OF CALLE INDICATOR SITES Department of Agriculture.       NUMPORT STATE DEPARTMENT OF THE STATE OF THE S			-	Origin:KENT/KING 100%							
THIS IS TO CERTIFY that the following described commodity was weighted understands to the set and understands the terms and conditions on the reserve side and that he or the has the surfactly to age this document on baland of the cudorer.     INTRODUCTION OF CALLE INDICATOR SITES Department of Agriculture.       NUMPORT STATE DEPARTMENT OF THE STATE OF THE S											
PS-F042UPR (07/12)  SIGNATURE CURRENT	weighmast by chapter INBOUND OUTBOUN	er, whose 15.80 R - SCALE	e signature is on this certifica CW administered by the Was INDICATOR 96135341 = E- the INDICATOR 11955300030	ate, who is a recognized authority of a shington State Department of Agricultu Seal 2000 ⊛⊯ EªSeali2006istomer acknowledges tha	ccuracy, as prescribe ire. t he or she has read and		terms and conditions		CHANGE		
REFINAL DISPOSAL INTERMODAL 425-977-4127         3rd and lander Seattle, WA         CONTONSTRUCT FOR CONTINUES OF CONTRACT FOR State	RS-F042U	JPR (07/1	2)	SIGNAT	rure				UNEOR#		
OUSTONESS NET - Harsh Singh 901 W 1st St Cle Elum, WA 98922       DATE/TIME IN 12/15/23 11:32 at 12/15/23 11:32 at 1	REGIONAI	L DISP	OSAL INTERMODAL 425	-977-4127	SOTE TICK	ET# 1019		-			
CUSTON 959, B15 - Harsh Singh 901 W 1st St Cle Elum, WA 98922       DATETIME IN 12/15/23 11:32 an 12/15/23 11:32 an	3rd and	lande	r Seattle, WA		WEIGHMASTEI	R Stepl	nanie A.				
Contract:TB-13401       BILL OF LADING         Scale In GROSS WEIGHT 58,360 NET TONS 16.29 Tare Out TARE WEIGHT 25,780 NET WEIGHT 32,580       INBOUND INVOICE         Tare Out TARE WEIGHT 0.0 NET TONS 16.29 Tare Out TARE WEIGHT 0.0 NET WEIGHT 32,580       INBOUND INVOICE         This is To CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.       NET AMOUNT         TENDERED OUTBOUND. on SCALE INDICATOR 96133341 = E-Seal 2000       State To the two rate and bash the or she has the authority to sign this documer on behalf of the customer.       NET AMOUNT         RS-F042UPR (07/12)       Stonature       CHANGE:       CHANGE:	901	. W 1st	t St		VEHICLE		11:32 am	12/15/2	23 11:32 an		
Tare Out TARE WEIGHT     25,780     NET WEIGHT     32,580     INVOICE       OTY.     UNIT     DESCRIPTION     RATE     EXTENSION     TAX     TOTAL       0.00     YD     Tracking QTY     Origin:KENT/KING 100%     RATE     EXTENSION     TAX     TOTAL       16.29     th     SW-CONT W/FUEL     Origin:KENT/KING 100%     Invoice     Invoice     Invoice	Contra	ct:TB-	13401			IG					
0.00       YD       Tracking QTY         16.29       tn       SW-CONT W/FUEL       Origin:KENT/KING 100%         Image: Subscript of the state of the							č				
16.29       tn       SW-CONT W/FUEL       Origin:KENT/KING 100%         Image: Superstand State Control (State)       Superstand State Control (State)       Superstand State         THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by the Washington State Department of Agriculture.       NET AMOUNT         TENDERED       TENDERED       TENDERED         OUND - SCALE INDICATOR 96135341 = E-Seal 2000       OUTBOUND - SCALE INDICATOR 96135341 = E-Seal 2000       TENDERED         OUTBOUND - SCALE INDICATOR 96135341 = E-Seal 2000       SignATURE       CHANGE       CHANGE         RS-F042UPR (07/12)       SIGNATURE       CHANGEs       CHANGEs	QTY.	UNIT		DESCRIPTION		RATE	EXTENSION	ТАХ	TOTAL		
THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.       INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000         OUTBOUND or SCALE INDICATOR 96135341 = E-Seal 2006       E-Seal 2006 istomer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.       CHANGE         RS-F042UPR (07/12)       SIGNATURE       CHANGE :			-								
weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed       Image: Change of the certificate of the certifi				57					NET AMOUNT		
OUTBOUND on SCALE INDICATOR 195300033 To E-Seal 2006 istomer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.       CHANGE       CHECK#         RS-F042UPR (07/12)       SIGNATURE	weighmast by chapter	er, whose 15.80 R	e signature is on this certifica CW administered by the Was	ate, who is a recognized authority of a shington State Department of Agricultu	ccuracy, as prescribe	d			TENDERED		
RS-F042UPR (07/12) SIGNATURE	OUTBOUN	<mark>իթ աջշ</mark> հ	LEINDICATOR 195530003	&ਜ EnSeali2006.stomer acknowledges that	t he or she has read and he customer.	understands the	terms and conditions				
	RS-F042L	JPR (07/1:	2)	SIGNAT	[URE				UNEUR#		

		OSAL INTERMODAL 425 r Seattle, WA	-977-4127		01	1019	003 hanie A.		
901	. W 1st	Harsh Singh St WA 98922			VEHICLE	12/15/23			23 12:05 pm
Contra	ct:TB-	13401			BILL OF LADIN	IG			
		e In GROSS WEIGHT Out TARE WEIGHT	55,880 NET TONS 24,380 NET WEIGHT	15. 31,5				INBOUNI INVOICE	
QTY.	UNIT		DESCRIPTION			RATE	EXTENSION	TAX	TOTAL
0.00 15.75	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%						
weighmast by chapter INBOUND OUTBOUN	er, whose 15.80 R0 - SCALE	e signature is on this certifica CW administered by the Was INDICATOR 96135341 = E- MEINDICATOR 1955300033	ed commodity was weighed, measure ate, who is a recognized authority of a hington State Department of Agricult Seal 2000 But EaSeal 2006istomer acknowledges th authority to sign this document on behalf of	accuracy ture. at he or st	, as prescribed		terms and conditions		NET AMOUNT TENDERED CHANGE CHECK#
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		OSAL INTERMODAL 425 r Seattle, WA	-977-4127						
901	. W 1st	Harsh Singh 5 St 5 WA 98922			DATE/TIME IN	Step 12/15/23 29 SINGH	1:04 pm CONTA	TIME OUT 12/15/2 AINER	23 1:04 pn
Contra	ct:TB-	13401		*	BILL OF LADIN	G			
		e In GROSS WEIGHT Out TARE WEIGHT	56,420 NET TONS 25,780 NET WEIGHT	15. 30,6				INBOUNI INVOICE	
QTY.	UNIT		DESCRIPTION			RATE	EXTENSION	TAX	TOTAL
0.00	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%						G
			It's the Rig	ht Thi	ngl				
weighmast by chapter	er, whose 15.80 R0	e signature is on this certifica CW administered by the Was	ed commodity was weighed, measure ate, who is a recognized authority of a shington State Department of Agricult	accuracy	unted by a , as prescribed	d			NET AMOUNT
OUTBOUN	lD mSGA	INDICATOR 96135341 = E- LEINDICATOR 195530003 se side and that he or she has the	Seal 2000 ଌଳ Б-Seali2006ustomer acknowledges th authority to sign this document on behalf of	at he or sh the custor	ne has read and u ner.	understands the	terms and conditions		CHANGE
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		OSAL INTERMODAL 425 r Seattle, WA	-977-4127		10190	008				
CUSTOMER 333815 - Harsh Singh				Stephanie A.						
CUSTOMEH 333	815 - . W 1st	Harsh Singh		DATE/TIME IN DATE/TIME OUT 12/15/23 1:48 pm 12/15/23 1:48 pm						
		WA 98922		VEHICLE	12 GARY	B TRUCKING	AINER			
				REFERENCE						
Contra	ct:TB-	13401		BILL OF LADIN	G					
<b>1</b>		e In GROSS WEIGHT Out TARE WEIGHT		6.02 ,040			INBOUNI INVOICI			
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0.00	YD	Tracking QTY					1. SP211. 0	-		
16.02	tn	SW-CONT W/FUEL	Origin:KENT/KING 100%							
					~	L		NET AMOUNT		
weighmast	er, whose	e signature is on this certifica	ed commodity was weighed, measured, or ate, who is a recognized authority of accura		Ł					
		CW administered by the Was INDICATOR 96135341 = E-	hington State Department of Agriculture. Seal 2000					TENDERED		
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RS-F0421			SIGNATURE					CHECK#		
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RÉCIONAI	DISP	OSAL INTERMODAL 425	-977-4127	SOTE TICK	ET# 10190					
3rd and	lande	r Seattle, WA		WEIGHMASTEF	Stop	nanie A.				
CUSTONER	015	Harsh Singh		DATE/TIME IN	Stepi					
901	. W 1st	t St			L2/15/23	2:37 pm	12/15/	23 2:37 pn		
Cle	e Elum,	, WA 98922			29 SINGH	AND SONS				
Contra	~t•⊤R-	13401		REFERENCE			~			
				BILL OF LADIN	G					
		e In GROSS WEIGHT Out TARE WEIGHT	-	6.09 ,180			INBOUN INVOICI			
QTY.	UNIT		DESCRIPTION		RATE	EXTENSION	ТАХ	TOTAL		
0.00 16.09	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%							
								с.		
			It's the Right T	ningi				NET AMOUNT		
			ed commodity was weighed, measured, or					NET AMOUNT		
			ate, who is a recognized authority of accura shington State Department of Agriculture.	acy, as prescribed	d .			TENDERED		
INBOUND	- SCALE	INDICATOR 96135341 = E-		r she has read and a	inderstands the	terms and conditions		CHANGE		
0	n the rever	se side and that he or she has the	authority to sign this document on behalf of the cu	stomer.				CHECK#		
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		OSAL INTERMODAL 425 r Seattle, WA	-977-4127	01 WEIGHMASTER	10190 R Karyı					
901	L W 1st	Harsh Singh t St , WA 98922		VEHICLE	12/15/23		TIME OUT 12/15/2 AINER	23 4:01 pn		
Contra	ct:TB-	13401		BILL OF LADIN	IG					
		e In GROSS WEIGHT Out TARE WEIGHT	53,320 NET TONS 24,380 NET WEIGHT 2	14.47 INBOUND 28,940 INVOICE						
QTY.	UNIT		DESCRIPTION		RATE	EXTENSION	TAX	TOTAL		
0.00 14.47	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%							
					~					
weighmast by chapter INBOUND OUTBOUN	ter, whose 15.80 R0 - SCALE ₩9 ₩9 <b>SC</b> #	e signature is on this certifica CW administered by the Was INDICATOR 96135341 = E- MEINDICATOR 11955300033	ed commodity was weighed, measured, ate, who is a recognized authority of acc shington State Department of Agriculture -Seal 2000 @mt E=Seal 2006ustomer acknowledges that h authority to sign this document on behalf of the	uracy, as prescribed e or she has read and u		terms and conditions		CHANGE CHECK#		
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	_	OSAL INTERMODAL 425 r Seattle, WA	-977-4127	SOTE TICK	ET # 10190		-			
901	L W 1st	Harsh Singh t St , WA 98922		VEHICLE	12/15/23 29 SINGH	6:10 pm	TIME OUT 12/15/2 AINER	23 6:10 pn		
Contra	ct:TB-	13401		BILL OF LADIN	IG					
		e In GROSS WEIGHT Out TARE WEIGHT	53,580 NET TONS 25,780 NET WEIGHT 2	13.90 27,800			INBOUNI INVOICE			
QTY.	UNIT		DESCRIPTION		RATE	EXTENSION	ТАХ	TOTAL		
0.00 13.90	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%					in a start and a start		
			It's the Right	) © Thingl						
weighmast by chapter	er, whose 15.80 R	e signature is on this certifica CW administered by the Was	ed commodity was weighed, measured, ate, who is a recognized authority of acc shington State Department of Agriculture	uracy, as prescribed	d			NET AMOUNT		
INBOUND OUTBOUN	- SCALE	INDICATOR 96135341 = E-		e or she has read and u	understands the	terms and conditions		CHANGE		
RS-F0421	JPR (07/1	2)	SIGNATUR	RE		CHANGE:		CHECK#		
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		OSAL INTERMODAL 425 r Seattle, WA	-977-4127	01 WEIGHMASTER	10190 Karyı				
901	L W 1st	Harsh Singh t St , WA 98922		DATE/TIME IN 12/15/23 6:15 pm 12/15/23 VEHICLE 12 GARY B TRUCKING REFERENCE					
Contra	ct:TB-	13401		BILL OF LADIN	IG				
		e In GROSS WEIGHT Out TARE WEIGHT	55,120 NET TONS 24,380 NET WEIGHT	15.37 30,740			INBOUND INVOICE		
QTY.	UNIT		DESCRIPTION		RATE	EXTENSION	TAX	TOTAL	
0.00 15.37	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%						
weighmast by chapter INBOUND OUTBOUN	ter, whos 15.80 R - SCALE ₩D ₩₩ <b>SC</b> #	e signature is on this certifica CW administered by the Was INDICATOR 96135341 = E- ALE-INDICATOR 195530003	ed commodity was weighed, measured ate, who is a recognized authority of a shington State Department of Agricultu Seal 2000 ⊛≖ EªSeal/2006istomer acknowledges that authority to sign this document on behalf of t	ccuracy, as prescribed ire. t he or she has read and t		terms and conditions		NET AMOUNT TENDERED CHANGE CHECK#	
RS-F0421	JPR (07/1	2)	SIGNAT	URE		CHANGE			
		OSAL INTERMODAL 425 r Seattle, WA	-977-4127	SOTE TICK	2				
901	L W 1st	Harsh Singh t St , WA 98922		VEHICLE	Karyı 12/15/23 29 SINGH	7:31 pm	TIME OUT 12/15/2 AINER	3 7:31 pn	
Contra	ct:TB-	13401		BILL OF LADIN	IG	-			
		e In GROSS WEIGHT Out TARE WEIGHT	56,600 NET TONS 25,780 NET WEIGHT	15.41 30,820			INBOUND INVOICE		
QTY.	UNIT		DESCRIPTION		RATE	EXTENSION	TAX	TOTAL	
0.00 15.41	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%				×	<sup>2</sup>	
•			It's the Righ	nt Thing!				NET AMOUNT	
weighmast by chapter	er, whos 15.80 R	e signature is on this certifica CW administered by the Was	ed commodity was weighed, measured ate, who is a recognized authority of a shington State Department of Agricultu	ccuracy, as prescribed	d			TENDERED	
OUTBOUN	₩D <del>տ</del> &G/	EINDICATOR 96135341 = E- LEINDIGATOR 195530003 se side and that he or she has the	-Seal 2000 ଅଳ ଅନ୍Seal 2006 stomer acknowledges that authority to sign this document on behalf of ti	t he or she has read and u he customer.	understands the	terms and conditions		CHANGE	
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	-	OSAL INTERMODAL 425 r Seattle, WA	-977-4127		01 WEIGHMASTEF	10190			
901	. W 1st	Harsh Singh 5 St 5 WA 98922	:		VEHICLE	Karyı 12/15/23 12 GARY		TIME OUT 12/15/: AINER	23 7:37 pn
Contra	ct:TB-	13401			BILL OF LADIN	G			
		e In GROSS WEIGHT Out TARE WEIGHT	55,540 NET TONS 24,380 NET WEIGHT	15. 31,1				INBOUNI INVOICH	
QTY.	UNIT		DESCRIPTION			RATE	EXTENSION	TAX	TOTAL
0.00 15.58	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%						
weighmast by chapter INBOUND OUTBOUN	er, whose 15.80 R0 - SCALE	e signature is on this certifica CW administered by the Was INDICATOR 96135341 = E- MEINDICATOR 1955300033	ed commodity was weighed, measure ate, who is a recognized authority of a hington State Department of Agricult Seal 2000 ⊛≖ EªSeal/2006⊔stomer acknowledges th authority to sign this document on behalf of	accuracy ture. hat he or s	y, as prescribed		terms and conditions		NET AMOUNT TENDERED CHANGE CHECK#
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		OSAL INTERMODAL 425 r Seattle, WA	-977-4127					-	
901	. W 1st	Harsh Singh St WA 98922			VEHICLE	12/18/23 29 SINGH	8:28 am	TIME OUT 12/18/: NINER	23 8:44 an
Contra	ct:TB-	13401		5	BILL OF LADIN	G		×	
		e In GROSS WEIGHT Out TARE WEIGHT	55,800 NET TONS 24,700 NET WEIGHT	15. 31,1				INBOUNI INVOICI	
QTY.	UNIT		DESCRIPTION			RATE	EXTENSION	ТАХ	TOTAL
0.00 15.55	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%						÷
			It's the Rig	EIY E ht Thi	e Ingl				
weighmast by chapter	er, whose 15.80 R0	e signature is on this certifica CW administered by the Was	ed commodity was weighed, measure ate, who is a recognized authority of a shington State Department of Agricult	accuracy	ounted by a y, as prescribed	ť		-	NET AMOUNT
INBOUND OUTBOUN	- SCALE	INDICATOR 96135341 = E-		at he or s	he has read and u mer.	inderstands the	terms and conditions		CHANGE
RS-F042L							CHANGE:		CHECK#
							CHECK :		

		OSAL INTERMODAL 425 r Seattle, WA	5-977-4127		01 WEIGHMASTER	1019			
901	L W 1st	Harsh Singh t St , WA 98922			VEHICLE	12/18/23	hanie A. DATE/ 8:35 am B TRUCKING	TIME OUT 12/18/2 NINER	23 8:46 an
Contra	ct:TB-	13401			BILL OF LADIN	IG			
		e In GROSS WEIGHT Out TARE WEIGHT	57,080 NET TONS 24,500 NET WEIGHT	16.2 32,58		-		INBOUNI INVOICH	
QTY.	UNIT		DESCRIPTION			RATE	EXTENSION	TAX	TOTAL
0.00 16.29	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%						
			It's the Rig	E E ht Thin					NET AMOUNT
weighmast by chapter INBOUND OUTBOUN	ter, whose 15.80 R - SCALE	e signature is on this certifica CW administered by the Was INDICATOR 96135341 = E- ALE-INDICATOR 195530003	ed commodity was weighed, measure ate, who is a recognized authority of a shington State Department of Agricult -Seal 2000 @=# E=Seal 2006 stomer acknowledges th authority to sign this document on behalf of	accuracy, ture. at he or she	as prescribed		terms and conditions		TENDERED CHANGE CHECK#
RS-F0420	JPR (07/1	2)	SIGNA	TURE			CHANGE:		
REGIONA		OSAL INTERMODAL 425	-977-4127		SOTE TICK	ET# 1019	CHECK :		
	-	r Seattle, WA			WEIGHMASTEF	a Step	nanie A.		
901	L W 1st	Harsh Singh t St , WA 98922			VEHICLE	-	10:01 am		23 10:01 an
Contra	ct:TB-	13401		÷.	BILL OF LADIN	G		~ ·	
		e In GROSS WEIGHT Out TARE WEIGHT	60,740 NET TONS 24,700 NET WEIGHT	18.0 36,04				INBOUNI INVOICE	
QTY.	UNIT		DESCRIPTION			RATE	EXTENSION	TAX	TOTAL
0.00 18.02	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%						in a start of the
weighmast by chapter	ter, whose 15.80 R	e signature is on this certifica CW administered by the Was	ed commodity was weighed, measure ate, who is a recognized authority of a shington State Department of Agricult	ed, or cou accuracy,	nted by a	d			NET AMOUNT
OUTBOUN	Dm&GA	INDICATOR 96135341 = E- LEINDICATOR 195530003 se side and that he or she has the	-Seal 2000 ଅଳ E⊤Seali2006ustomer acknowledges tha authority to sign this document on behalf of	at he or she the custom	e has read and ι er.	understands the	terms and conditions		CHANGE
RS-F0421	JPR (07/1:	2)	SIGNA	TURE			CHANGE:		CHECK#
							CHECK :		

		OSAL INTERMODAL 425 r Seattle, WA	-977-4127		01	1019 Step	029 hanie A.		
901	. W 1st	Harsh Singh t St , WA 98922		$\neg$	VEHICLE	_	11:34 am	The second s	23 11:34 an
Contra	ct:TB-	13401			BILL OF LADIN	IG			
		e In GROSS WEIGHT Out TARE WEIGHT	54,540 NET TONS 24,700 NET WEIGHT	14. 29,8		-		INBOUNI INVOICE	
QTY.	UNIT		DESCRIPTION			RATE	EXTENSION	TAX	TOTAL
0.00 14.92	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%						
weighmast by chapter INBOUND OUTBOUN	er, whose 15.80 R0 - SCALE	e signature is on this certifica CW administered by the Was EINDICATOR 96135341 = E- CEIINDICATOR 1955300030	ed commodity was weighed, measur ate, who is a recognized authority of hington State Department of Agricul Seal 2000 ge# EaSeal/2006istomer acknowledges th authority to sign this document on behalf of	accuracy ture. hat he or s	y, as prescribed		terms and conditions		NET AMOUNT TENDERED CHANGE CHECK#
RS-F0421	JPR (07/1:	2)	SIGNA	ATURE			CHANGE:		
		OSAL INTERMODAL 425 r Seattle, WA	-977-4127				CHECK :		
901	. W 1st				DATE/TIME IN	Step.	hanie A. DATE/ 11:51 am CONTA		23 11:51 an
Cle Contra		, WA 98922 13401					B TRUCKING		
		e In GROSS WEIGHT Out TARE WEIGHT	55,360 NET TONS 24,500 NET WEIGHT	15. 30,8			e.	INBOUNI INVOICE	
QTY.	UNIT		DESCRIPTION			RATE	EXTENSION	TAX	TOTAL
0.00 15.43	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%						ŭ
weighmast by chapter	er, whose 15.80 R0	e signature is on this certifica CW administered by the Was	ed commodity was weighed, measur ate, who is a recognized authority of hington State Department of Agricul	accuracy	ounted by a y, as prescribed	d			NET AMOUNT
INBOUND OUTBOUN	- SCALE	E INDICATOR 96135341 = E-		nat he or s	he has read and ι mer	understands the	terms and conditions		CHANGE
RS-F042L					mer.		CHANGE:		CHECK#
							CHECK :		

		OSAL INTERMODAL 425 r Seattle, WA	-977-4127	01 WEIGHMASTE	10190 R Karyı			
901	. W 1st	Harsh Singh t St , WA 98922		VEHICLE	12/18/23 29 SINGH	1:03 pm	TIME OUT 12/18/2 NINER	23 1:03 pn
Contra	ct:TB-	13401		BILL OF LADIN	NG			
<b>P</b>		e In GROSS WEIGHT Out TARE WEIGHT	57,900 NET TONS 24,700 NET WEIGHT	16.60 33,200			INBOUNI INVOICE	
QTY.	UNIT		DESCRIPTION		RATE	EXTENSION	TAX	TOTAL
0.00 16.60	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%					
weighmast by chapter INBOUND OUTBOUN	er, whose 15.80 R - SCALE	e signature is on this certifica CW administered by the Was INDICATOR 96135341 = E- MEINDICATOR 195530003	ed commodity was weighed, measure ate, who is a recognized authority of a shington State Department of Agricult	ed, or counted by a accuracy, as prescribe ure. at he or she has read and		terms and conditions		NET AMOUNT TENDERED CHANGE CHECK#
RS-F0421	JPR (07/1	2)	SIGNA	TURE		CHANGE : CHECK :		
		OSAL INTERMODAL 425 r Seattle, WA	-977-4127		ET # 1019	D38 CELL		
901	. W 1st	Harsh Singh t St , WA 98922		VEHICLE	12/18/23		TIME OUT 12/18/2 NINER	23 1:07 pm
Contra	ct:TB-	13401		BILL OF LADIN	IG			
		e In GROSS WEIGHT Out TARE WEIGHT	55,060 NET TONS 24,500 NET WEIGHT	15.28 30,560		· · · · · · · · · · · · · · · · · · ·	INBOUNI INVOICE	
QTY.	UNIT		DESCRIPTION		RATE	EXTENSION	TAX	TOTAL
0.00 15.28	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%					ti di
THIS IS TO	) CERTII er, whose	TY that the following describe e signature is on this certifica	ed commodity was weighed, measure ate, who is a recognized authority of a	ed, or counted by a	d	I		NET AMOUNT
by chapter INBOUND	15.80 R - SCALE	CW administered by the Was INDICATOR 96135341 = E-	shington State Department of Agricult	ure.		terms and conditions		TENDERED
0	n the rever	se side and that he or she has the	authority to sign this document on behalf of	the customer.		Sector and conditions	-	CHECK#
RS-F042L	JPR (07/1:	2)	SIGNA	TURE		CHANGE: CHECK :		

		OSAL INTERMODAL 425 r Seattle, WA	-977-4127	01 WEIGHMASTE	10190 R			
901	. W 1st	Harsh Singh 5 St . WA 98922	:	DATE/TIME IN VEHICLE REFERENCE	Karyı 12/18/23 12 GARY		TIME OUT 12/18/2 AINER	23 2:32 pn
Contra	ct:TB-	13401		BILL OF LADIN	NG			
<u>p</u>		e In GROSS WEIGHT Out TARE WEIGHT	55,100 NET TONS 24,500 NET WEIGHT	15.30 30,600			INBOUNI INVOICH	
QTY.	UNIT		DESCRIPTION		RATE	EXTENSION	ТАХ	TOTAL
0.00 15.30	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%					
•			SAFI IV It's the Righ	ETY ELLING!				
weighmast by chapter INBOUND OUTBOUN	er, whose 15.80 R0 - SCALE	e signature is on this certifica CW administered by the Was INDICATOR 96135341 = E- MEINDICATOR 1955300033	ed commodity was weighed, measure ate, who is a recognized authority of a shington State Department of Agricultu Seal 2000 Set E-Seal 2006ustomer acknowledges tha authority to sign this document on behalf of t	accuracy, as prescribe ure. at he or she has read and		terms and conditions		NET AMOUNT TENDERED CHANGE
RS-F042L	JPR (07/1	2)	SIGNAT	TURE		CHANGE : CHECK :		CHECK#
		OSAL INTERMODAL 425 r Seattle, WA	-977-4127		ET # 1019( R Karyi	042 CELL		
901	. W 1st	Harsh Singh 5 St 7 WA 98922		VEHICLE	12/18/23 29 SINGH	2:36 pm	TIME OUT 12/18/2 NINER	23 2:36 pn
Contra	ct:TB-	13401		BILL OF LADIN	IG			
		e In GROSS WEIGHT Out TARE WEIGHT	56,580 NET TONS 24,700 NET WEIGHT	15.94 31,880			INBOUNI INVOICE	
QTY.	UNIT		DESCRIPTION		RATE	EXTENSION	TAX	TOTAL
0.00	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%					<b>C</b>
		TV that the following describe	It's the Rig					NET AMOUNT
weighmast by chapter INBOUND	er, whose 15.80 R - SCALE	e signature is on this certifica CW administered by the Was INDICATOR 96135341 = E-	ed commodity was weighed, measure ate, who is a recognized authority of a shington State Department of Agricultu Seal 2000	accuracy, as prescribe ure.				TENDERED
OUTBOUN	ID mSGA	LEINDICATOR: 195530003	ਤਿਜ਼ EnSeal।2006.stomer acknowledges tha authority to sign this document on behalf of t	at he or she has read and the customer.	understands the	terms and conditions		CHANGE CHECK#
RS-F042L	JPR (07/12	2)	SIGNAT	TURE		CHANGE: CHECK :		

		OSAL INTERMODAL 425 r Seattle, WA	-977-4127	01 WEIG		1019 Karyı			
901	L W 1st	Harsh Singh 5 St 5 WA 98922	· · · · · · · · · · · · · · · · · · ·	VEHI	CLE	.2/18/23 29 SINGH	5:08 pm	TIME OUT 12/18/: NINER	23 5:08 pm
Contra	ct:TB-	13401		BILL	OF LADIN	G			
		e In GROSS WEIGHT Out TARE WEIGHT	56,220 NET TONS 24,700 NET WEIGHT	15.76 31,520				INBOUNI INVOICH	
QTY.	UNIT		DESCRIPTION			RATE	EXTENSION	ТАХ	TOTAL
0.00	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%						
						~			
weighmast by chapter INBOUND OUTBOUN	ter, whose 15.80 R - SCALE	e signature is on this certifica CW administered by the Was INDICATOR 96135341 = E- the INDICATOR 11955300030	ed commodity was weighed, measure tte, who is a recognized authority of a hington State Department of Agriculti Seal 2000 Bre EnSeal 2006 stomer acknowledges the authority to sign this document on behalf of	accuracy, as pr ure. at he or she has	rescribed		terms and conditions		CHANGE
RS-F0421	JPR (07/1:	2)	SIGNA	TURE			CHANGE:		
	-	OSAL INTERMODAL 425 r Seattle, WA	-977-4127	SOTE WEIG			CHECK : <b>D56</b> CELL Stephanie A.	- OUT -	Michael A.
901	L W 1st	Harsh Singh 5 St 7 WA 98922		VEHI	CLE		10:35 am	TIME OUT 12/19/2	23 10:41 an
Contra	ct:TB-	13401			OF LADING	G			
		e In GROSS WEIGHT Out TARE WEIGHT	53,300 NET TONS 25,140 NET WEIGHT	14.08 28,160				INBOUNI INVOICI	
QTY.	UNIT		DESCRIPTION			RATE	EXTENSION	TAX	TOTAL
0.00 14.08	YD tn	Tracking QTY SW-CONT W/FUEL	Origin:KENT/KING 100%						<b>с</b> .
THIS IS TO		TY that the following describe	ed commodity was weighed, measure	ed, or counted	by a				NET AMOUNT
by chapter INBOUND	15.80 R0 - SCALE	CW administered by the Was INDICATOR 96135341 = E-	ate, who is a recognized authority of a hington State Department of Agricult Seal 2000	ure.					TENDERED
OUTBOUN	₩D m SGA	LEINDICATOR 195530003	8ਜ਼ <b>E⊤Seal</b> i2006.stomer acknowledges tha authority to sign this document on behalf of f	at he or she has i the customer.	read and u	inderstands the	terms and conditions		CHANGE CHECK#
RS-F0421	JPR (07/12	2)	SIGNA	TURE			CHANGE: CHECK :		

		OSAL INTERMODAL 425 r Seattle, WA	-977-4127		1019	059		
			· ~ ~	WEIGHMASTE	Step.	hanie A.		
CUSTOMER 333	815 - W 1st	Harsh Singh		DATE/TIME IN	12/19/23		TIME OUT 12/19/	23 12:21 pn
	-	, WA 98922		VEHICLE	29 SINGH	AND SONS	AINER	
				REFERENCE				
Contra	ct:TB-	13401		BILL OF LADI	NG			
<b>,</b>		e In GROSS WEIGHT Out TARE WEIGHT	56,900 NET TONS 25,140 NET WEIGHT	15.88 31,760			INBOUNI INVOICI	
QTY.	UNIT		DESCRIPTION		RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY						
15.88	tn	SW-CONT W/FUEL	Origin:KENT/KING 100%					
							A	NET AMOUNT
			ed commodity was weighed, measured ate, who is a recognized authority of a		ed			
		CW administered by the Was INDICATOR 96135341 = E-	shington State Department of Agricultu	ire.				TENDERED
OUTBOUN	10 <b></b> 80/	LEINDICATOR 195530003	Be# EnSeal 2006 stomer acknowledges that authority to sign this document on behalf of the	t he or she has read and	understands the	terms and conditions		CHANGE
								CHECK#
RS-F0421	JPR (07/1	2)	SIGNAT	URE		CHANGE:		
			000 4100	SOTE TIC	KET # 1019	CHECK :		
		OSAL INTERMODAL 425 r Seattle, WA	-9//-412/					
				WEIGHMASTE	R Kary	n B.		
		Harsh Singh		DATE/TIME IN	12/19/23	2:36 pm	TIME OUT 12/19/	23 2:36 pn
	l W 1st e Elum,	t St , WA 98922		VEHICLE	29 SINGH	CONTA		1
				REFERENCE	29 011011			
Contra	ct:TB-	13401		BILL OF LADI	NG			
-							-	
		e In GROSS WEIGHT Out TARE WEIGHT	61,120 NET TONS 25,140 NET WEIGHT	17.99 35,980			INBOUNI INVOICI	
<b>QTY.</b>	UNIT YD	Tracking QTY	DESCRIPTION		RATE	EXTENSION	TAX	TOTAL
17.99	tn	SW-CONT W/FUEL	Origin:KENT/KING 100%				s	
		,						<b>C</b> 2
	~							
			ns un ngi					
THIS IS TO	) CERTII	FY that the following describe	ed commodity was weighed, measured	d, or counted by a				NET AMOUNT
			ate, who is a recognized authority of a shington State Department of Agricultu		ed			TENDERED
INBOUND	- SCALE	INDICATOR 96135341 = E-	-Seal 2000		N			CHANGE
OU BOUN	ne underst	se side and that he or she has the	3ਾਜ E⊤Seali2006istomer acknowledges that authority to sign this document on behalf of th	t he or she has read and he customer.	understands the	terms and conditions		
RS-F0421	JPR (07/1	2)	SIGNAT	URE		CHANGE:		CHECK#
						CHANGE: CHECK :		



# APPENDIX B

# **Exploration Logs**

# **BORING AND WELL LOG LEGEND**

Litholo	gy Ke	У		Well	<u>Construction</u>
	GW	GRAVE mixtures	L, well graded: gravel-sand s, little or no fines.		Concrete
2002 - 20	GP	GRAVE gravel-s fines.	L, poorly graded: and mixtures, little or no		Solid riser
	GM	SILTY G	RAVEL: gravel-sand-silt		Bentonite-Cement Grout
	GC		′ GRAVEL: and-clay mixtures.		Bentonite
	<b></b>	SAND	vell graded: sand-gravel		Soil
	SW	mix, little	e or no fines.		Screen
	SP		boorly graded: sand-gravel e or no fines.		Filter pack
Image         Image <th< td=""><td>SM</td><td>SILTY S</td><td>AND: sand-gravel-silt mixtu</td><td>res.</td><td>End cap</td></th<>	SM	SILTY S	AND: sand-gravel-silt mixtu	res.	End cap
	SC	CLAYE	SAND: sand-gravel-clay m	nixtures.	
	ML or	MH		with slight pla	h very fine sands, rock flour, silty or clayey asticity (ML) or inorganic silts, micaceous or elastic silts (MH).
	CL or	СН	-	-	m (CL) to high (CL) plasticity.
	OL or	OH	ORGANIC SILT/CLAY: w	ith low (OL) t	to medium-high (OH) plasticity.
ц Т Т Т	PT		Peat and other highly org	anic silts.	
	Pav		Pavement: Concrete, asp	bhalt, paving	stones, etc.
Field M	easurem	ents:			he line separating strata on the logs represents approximate
	otoionizatio		or.	is provide	es only. The actual transition may be gradual. No warranty ed as to the continuity of the strata between exploration . Logs represent the soil section observed at the
<u></u>	pth to wate				on location on the date of exploration only.
De	pth to wate	r after dr	illing.		
			·		🚸 ATLAS

**GEOSCIENCES NW** 

BORING/W MW-1 NOTES: Ecology	<b>1</b> y Well Tag: BPF	PROJECT NAME: Former Special Interest Auto DRILLING CONTRACTOR: Cascade Environmental DRILLING METHOD: HSA LOCATION: Kent, Washington 672, Top of Casing Elevation = 44.50 feet a 1 to 1.8 parts per million (ppm)	PROJECT NUI 02-0019-D BORING DIAM 8" TOTAL DEPTH 27'	ETER:	DRILLING DATE: 11/13/2023 WEATHER: Cloudy, ~40F DEPTH TO WATER: 21' LOGGED BY: HVS		
Depth (feet) USCS Soil Type/Graphic	De	scription	Interval and % Recovery	# Blows	CIA	We	I Construction
0 <b>Pav</b> 2 - <b>SM</b> 4 - 6 - 8 - 10 - <b>SM</b> 10 - <b>SM</b> 12 - <b>SM</b>	coarse-gra	ohalt. SILTY SAND, some gravel, fine- to ined sand, dark brown, no odor.	75	1,1,2	1 1 1 1.8 1.8 1.8		0 Flush mounted 8" cover Concrete Seal - 5 2" PVC Blank 
14 - 	no odor.	AND, fine-grained, brown, moist,	60	4,5,6	1.8 1.8 1.8		- 15 - - Sand Pack - - 20
22		ILT, elastic, grayish-green, wet,		.,0,0	1.7 1.7		- 2" O.D. Well Screen (10 slot) -
26	sand, somo odor.	AND, fine- to coarse-grained gravel, grayish-brown, wet, no ninated at 27 feet.	100	3,4,5	1.4 1.4 1.4		- 25 - -

	TLAS Inciences NW	PROJECT NAME: Former Special Interest Auto DRILLING CONTRACTOR: Cascade Environmental		PROJECT NU 02-0019-D BORING DIAM 8"		DRILLING DAT 11/13/2023 WEATHER: Partly Clou	
BORING/	WELL ID:	DRILLING METHOD: HSA		TOTAL DEPTH	4:	DEPTH TO WA	TER:
MW-	-2	LOCATION: Kent, Washington				LOGGED BY: HVS	
		673, Top of Casing Elevation = 43.90 feet a at 22 feet (woody material), moved over app					
Depth (feet) USCS Soil Type/Graphic	De	scription	Interval and % Recovery	# Blows	DIA	Well Cor	nstruction
0 GP 2 - SM 4 -	0-3": GRAV 3"-5.5': SIL	EL. TY SAND with some gravel, coarse-grained sand, brown, wet,					Flush mounted 8" cover Concrete Seal
6	5.5-15.5': S brown, moi	ILTY SAND, fine-grained sand, st, no odor.	60	1,1,1	0.7 0.7 0.7	-5 <u>-</u> - -	2" PVC Blank
10 - <b>SM</b> - 12 -			100	1,2,1	0.8 0.8 0.8		3entonite Seal
14 - 16 -	15.5-28': S/ brown, moi	AND, fine- to medium-grained, st, no odor.	100	2,2,3	0.7 0.7 0.7	- 15 	Sand Pack
18	Becomes n	nore moist.	100	2,2,2	0.5 0.5	- 20 - 20 	<b>V</b>
22		erial at 22 feet. soil recovery in split spoon			0.5		2" O.D. Well Screen (10 slot)
24 -				1,2,1		- 25	
26 - _ 28	Boring term	inated at 28 feet.		·, <del>,</del> , 1			
30						30	

BORING/WELL ID:			PROJECT NU 02-0019-D BORING DIAM 8" TOTAL DEPTH 30'	IETER:	DRILLING DATE: 11/14/2023 WEATHER: Foggy, ~34F DEPTH TO WATER: 24'
MW-3	LOCATION: Kent, Washington				LOGGED BY: HVS
Ambient PID Readir	PR 674, Top of Casing Elevation = 43.78 feet a g = 0.8 - 1.0 ppm		an sea level		
	escription	Interval and % Recovery	# Blows	DIA	Well Construction
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ILTY SAND, fine-grained sand, bist, no odor. SAND, fine-grained, brown, moist, fine- to medium-grained. SILT, some fine-grained sand, gray, wet, no odor. SAND, fine- to coarse-grained, gray,	100 60 100 80 80	2,2,2 1,2,2 1,2,2 1,2,2 2,2,3 6,4,10	0.8 0.8 0.8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 Flush mounted 8" cover   -5 Concrete Seal   -5 2" PVC Blank   -10 Bentonite Seal   -110 Bentonite Seal   -115 Sand Pack   -20 2" O.D. Well Screen (10 slot)   -215 -215   -210 2" O.D. Well Screen (10 slot)

BORING/W		PROJECT NAME: Former Special Interest Auto DRILLING CONTRACTOR: Cascade Environmental DRILLING METHOD: HSA LOCATION:	PROJECT NUM 02-0019-D BORING DIAM 8" TOTAL DEPTH 26.5'	ETER:	DRILLING DATE: 11/14/2023 WEATHER: Sunny, ~43F DEPTH TO WATER: 23' LOGGED BY:		
		Kent, Washington 8 675, Top of Casing Elevation = 44.27 feet a	bove mea	n sea level		HVS	
Depth (feet) USCS Soil Type/Graphic	nt PID Reading =		Interval and % Recovery	# Blows	QL		
0 <b>GP</b>	0-3" GRAV 3"-5.5': SAN brown, moi	NDY SILT, fine-grained sand, st, no odor. TY SAND, fine-grained sand,	80	¥ 1,1,2	0.8 0.8 0.8 0.8		ell Construction          0       Flush mounted 8" cover         -       Concrete Seal         -       -         -       5         2" PVC Blank         -
8 - - 10 - - 12 - - - 14 -			80	1,1,2	0.9 0.9 0.9		- - 10 <sub>Bentonite</sub> Seal - -
16 18 18	16-20.5': S/ no odor.	AND, fine-grained, brown, moist,	100	2,3,3	0.9 0.9 0.9		- 15 - Sand Pack -
20 - 22 - 22 - <b></b>		GRAVELLY SAND, fine- to ned sand, grayish-brown, wet, no	90	6,7,6	0.4 0.4 0.4		- 2" O.D. Well Screen (10 slot) - 20
24	sand, grayi	SAND, fine- to medium-grained sh-brown, wet, no odor. hinated at 26.5 feet.	90	6,7,6	0.3 0.3 0.3		- - 25 -
28							



# APPENDIX C

# Laboratory Analytical Reports and Sample Chain-of-Custody Forms



August 16, 2023

Lannie Smith Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0019-C Laboratory Reference No. 2308-160

Dear Lannie:

Enclosed are the analytical results and associated quality control data for samples submitted on August 15, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Date of Report: August 16, 2023 Samples Submitted: August 15, 2023 Laboratory Reference: 2308-160 Project: 02-0019-C

# **Case Narrative**

Samples were collected on August 15, 2023 and received by the laboratory on August 15, 2023. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	INT-1					
Laboratory ID:	08-160-01					
Arsenic	ND	11	EPA 6010D	8-15-23	8-15-23	
Lead	720	5.3	EPA 6010D	8-15-23	8-15-23	
Client ID:	INT-2					
Laboratory ID:	08-160-02					
Arsenic	ND	11	EPA 6010D	8-15-23	8-15-23	
Lead	7.9	5.6	EPA 6010D	8-15-23	8-15-23	
Client ID:	INT-3					
Laboratory ID:	08-160-03					
Arsenic	ND	11	EPA 6010D	8-15-23	8-15-23	
Lead	7.4	5.7	EPA 6010D	8-15-23	8-15-23	



### TOTAL METALS EPA 6010D QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

Analyte METHOD BLANK	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0815SM1					
Arsenic	ND	10	EPA 6010D	8-15-23	8-15-23	
Lead	ND	5.0	EPA 6010D	8-15-23	8-15-23	

					Source	Pe	rcent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	08-15	55-02									
	ORIG	DUP									
Arsenic	ND	ND	NA	NA			NA	NA	NA	20	
Lead	20.9	21.6	NA	NA			NA	NA	3	20	
MATRIX SPIKES											
Laboratory ID:	08-15	55-02									
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	92.4	92.9	100	100	ND	92	93	75-125	1	20	
Lead	248	248	250	250	20.9	91	91	75-125	0	20	



Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	SA-BTTM-1-4					
Laboratory ID:	08-160-04					
Arsenic	ND	13	EPA 6010D	8-15-23	8-15-23	
Lead	6.5	6.3	EPA 6010D	8-15-23	8-15-23	
Client ID:	SA-SSW-1-1.5					
Laboratory ID:	08-160-05					
Arsenic	14	11	EPA 6010D	8-15-23	8-15-23	
Lead	99	5.6	EPA 6010D	8-15-23	8-15-23	
Client ID:	SA-SSW-1-3					
Laboratory ID:	08-160-06					
Arsenic	32	12	EPA 6010D	8-15-23	8-15-23	
Lead	83	6.2	EPA 6010D	8-15-23	8-15-23	
Client ID:	SA-SSW-2-1.5					
Laboratory ID:	08-160-07					
Arsenic	14	12	EPA 6010D	8-15-23	8-15-23	
Lead	130	5.8	EPA 6010D	8-15-23	8-15-23	



### TOTAL METALS EPA 6010D QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0815SM1					
Arsenic	ND	10	EPA 6010D	8-15-23	8-15-23	
Lead	ND	5.0	EPA 6010D	8-15-23	8-15-23	

					Source	Pe	rcent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	08-15	55-02									
	ORIG	DUP									
Arsenic	ND	ND	NA	NA			NA	NA	NA	20	
Lead	20.9	21.6	NA	NA			NA	NA	3	20	
MATRIX SPIKES											
Laboratory ID:	08-15	55-02									
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	92.4	92.9	100	100	ND	92	93	75-125	1	20	
Lead	248	248	250	250	20.9	91	91	75-125	0	20	



Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	INT-1					
Laboratory ID:	08-160-01					
Arsenic	ND	11	EPA 6010D	8-15-23	8-15-23	
Lead	220	5.3	EPA 6010D	8-15-23	8-15-23	



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### TOTAL METALS EPA 6010D QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0815SM1					
Arsenic	ND	10	EPA 6010D	8-15-23	8-15-23	
Lead	ND	5.0	EPA 6010D	8-15-23	8-15-23	

					Source	Pe	rcent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	08-15	55-02									
	ORIG	DUP									
Arsenic	ND	ND	NA	NA			NA	NA	NA	20	
Lead	20.9	21.6	NA	NA			NA	NA	3	20	
MATRIX SPIKES											
Laboratory ID:	08-15	55-02									
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	92.4	92.9	100	100	ND	92	93	75-125	1	20	
Lead	248	248	250	250	20.9	91	91	75-125	0	20	



# % MOISTURE

			Date
Client ID	Lab ID	% Moisture	Analyzed
INT-1	08-160-01	5	8-15-23
INT-2	08-160-02	10	8-15-23
INT-3	08-160-03	12	8-15-23
SA-BTTM-1-4	08-160-04	20	8-15-23
SA-SSW-1-1.5	08-160-05	11	8-15-23
SA-SSW-1-3	08-160-06	20	8-15-23
SA-SSW-2-1.5	08-160-07	13	8-15-23



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# **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical \_\_\_\_\_
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1 Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 Sample extract treated with a silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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OnSite Environmental Inc.	Turi	Cha naround Req	ain o	<b>f</b> (				_										P	age _	)	of _		-	]
14648 NE 95th Street • Redmond, WA 98052		working da			Li	abo	rate	ory	Nu	mb	er:	0	8 -	11	<u> </u>	<u> </u>		5	8				- Art - Carlos - Carl	
Project Name: Project Name: Project Name: Project Name: Project Manager: Project Manager: Projec	2 Day	(Check One) Day ys b dard (7 Days)		S		21 8260 )		Clean-up [])		8260	s Only)	Ν	evel)	ides 8081	Organophosphorus Pesticides 8270/SIM	icides 8151		st Plo Re-angl		664	Lead		UNE Dell	
Project Manager: Lannie Smith/Chris Smith Sampled by: HVS		(other)		Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021	NWTPH-Gx	G	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	Probs 8082 Organochlorine Pesticides 8081	ophosphorus Pe	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTOA Metals	TCLP Metals	HEM (oil and grease) 1664	Arsenic t L	11/0	AT.	Moisture
Lab ID Sample Identification	Date Sampled	Time Sampled	Matrix	Numt	NWTF	NWTF	NWTF	NWTF	Volati	Halog	EDB [	Semiv (with	PAHs	Ordar	Organ	Chlor	Total	Total	TCLP	HEM	Acs	1	11	% Mo
INT-I	8 15/23		Spil	1														X			$\times$	$\rangle$		X
Z INT-2		0842	1	1																	$\times$	X		X
3 INT-3		0846		1																	X	X	$( \ )$	X
4 SA-BTTM-1-4	L.	0935	1	1																	X		X	X
5 SA-SSW-1-1.5		1022		1																	X		X	X
6 SA-SSW-1-3		1023		1																	X		X	X
7 SA-SSW-2-1.5	×	1024	X	ſ																	X		X	1 X
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August 17, 2023

Chris Smith Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0019-C Laboratory Reference No. 2308-166

Dear Chris:

Enclosed are the analytical results and associated quality control data for samples submitted on August 15, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Date of Report: August 17, 2023 Samples Submitted: August 15, 2023 Laboratory Reference: 2308-166 Project: 02-0019-C

# **Case Narrative**

Samples were collected on August 15, 2023 and received by the laboratory on August 15, 2023. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



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Matrix: Soil Units: mg/Kg (ppm)

onits. hig/kg (ppin)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	SA-SSW-3-1.5					
Laboratory ID:	08-166-01					
Arsenic	ND	11	EPA 6010D	8-17-23	8-17-23	
Lead	67	5.5	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-SSW-4-1.5					
Laboratory ID:	08-166-02					
Arsenic	18	11	EPA 6010D	8-17-23	8-17-23	
Lead	76	5.4	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-BTTM-2-4					
Laboratory ID:	08-166-03					
Arsenic	ND	13	EPA 6010D	8-17-23	8-17-23	
Lead	13	6.6	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-BTTM-3-4					
Laboratory ID:	08-166-04					
Arsenic	ND	13	EPA 6010D	8-17-23	8-17-23	
Lead	ND	6.6	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-BTTM-4-4					
Laboratory ID:	08-166-05					
Arsenic	ND	13	EPA 6010D	8-17-23	8-17-23	
Lead	ND	6.4	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-ESW-1-1.5					
Laboratory ID:	08-166-06					
Arsenic	19	11	EPA 6010D	8-17-23	8-17-23	
Lead	89	5.6	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-BTTM-5-3					
Laboratory ID:	08-166-07					
Arsenic	ND	13	EPA 6010D	8-17-23	8-17-23	
Lead	7.1	6.3	EPA 6010D	8-17-23	8-17-23	



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Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	SA-BTTM-6-3.5					
Laboratory ID:	08-166-08					
Arsenic	ND	13	EPA 6010D	8-17-23	8-17-23	
Lead	6.9	6.5	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-ESW-2-2.5					
Laboratory ID:	08-166-09					
Arsenic	18	12	EPA 6010D	8-17-23	8-17-23	
Lead	43	5.9	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-BTTM-7-3					
Laboratory ID:	08-166-10					
Arsenic	ND	11	EPA 6010D	8-17-23	8-17-23	
Lead	19	5.7	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-BTTM-8-3.5					
Laboratory ID:	08-166-11					
Arsenic	ND	13	EPA 6010D	8-17-23	8-17-23	
Lead	ND	6.3	EPA 6010D	8-17-23	8-17-23	



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### TOTAL METALS EPA 6010D QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

······				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0817SM1					
Arsenic	ND	10	EPA 6010D	8-17-23	8-17-23	
Lead	ND	5.0	EPA 6010D	8-17-23	8-17-23	

					Source	Pe	rcent	Recovery		RPD		
Analyte	Res	sult	Spike	Level	Result	t Recovery		Limits RPD		Limit	Flags	
DUPLICATE												
Laboratory ID:	08-16	6-01										
	ORIG	DUP										
Arsenic	ND	ND	NA	NA		NA		NA NA		NA	20	
Lead	61.4	62.2	NA	NA		NA		NA	1	20		
MATRIX SPIKES												
Laboratory ID:	08-16	6-01										
	MS	MSD	MS	MSD		MS	MSD					
Arsenic	97.1	98.7	100	100	ND	97	99	75-125	2	20		
Lead	297	302	250	250	61.4	94	96	75-125	2	20		



# % MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SA-SSW-3-1.5	08-166-01	8	8-16-23
SA-SSW-4-1.5	08-166-02	8	8-16-23
SA-BTTM-2-4	08-166-03	24	8-16-23
SA-BTTM-3-4	08-166-04	24	8-16-23
SA-BTTM-4-4	08-166-05	22	8-16-23
SA-ESW-1-1.5	08-166-06	11	8-16-23
SA-BTTM-5-3	08-166-07	20	8-16-23
SA-BTTM-6-3.5	08-166-08	24	8-16-23
SA-ESW-2-2.5	08-166-09	15	8-16-23
SA-BTTM-7-3	08-166-10	12	8-16-23
SA-BTTM-8-3.5	08-166-11	21	8-16-23



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# **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1 Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 Sample extract treated with a silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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OnSite Environmental Inc.		Cha	ain o	f	Cu	ıst	00	ly										P	age _	1	_ of _	2		
Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com	T	furnaround Req (in working day	ys)		L	abo	rato	ory	Nu	mb	er:	0	8 -	- 1	66		1,000							
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02-0019-C	20	Days [	3 Days			8260])		(			0			081	es 8270,	8151					~			
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Sampled by:				Number of Containers	CID	NWTPH-Gx/BTEX (8021		NWTPH-Dx (SG Clean-up ]]	60	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	/SIM (low	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	sli	HEM (oil and grease) 1664				
(AVS	Date	(other)		nber of	NWTPH-HCID	TPH-G	NWTPH-GX	TPH-D	Volatiles 8260	ogenate	3 EPA 8	nivolatil h low-le	PAHs 8270/	anochic	anopho	orinated	al RCRA	al MTC/	TCLP Metals	M (oil ar	Pad			% Moisture
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SA-SSW-3-1.5	8/15/2	3 1057	Soil																		X			X
2 SA-SSW-4-1.5	1	1120		1																				
3 SA-BTTM-2-4		1135	ł	1																				
Y SA-BTTM-3-4		1137		1																				
5 SA-BTTM-4-4		1138		1																				
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7 SA-BTTM-5-3		1320	1	1																				
8 SA-BTTM-6-3.5		1333		1																		8		
9 SA- WSW 2-2.5		1453		1																				
10 SA-BTTM-7-3	X	1507	$\downarrow$	1																	Y			4
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Company: AHas Geosciences NW Project Number: D2-0010-C Project Name: D2-0010-C Project Name: Special Interest Anto Project Manager: Chris Smith Hande Smith Sampled by: HVS Lab ID Sample Identification 11 SA-BTTM-8-3.5	(Check One) e Day ys [ dard (7 Days) (other) Time Sampled	1 Day 3 Days Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 8260 )	NWTPH-Gx	NWTPH-Dx (SG Clean-up  )	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM         (with low-level PAHs)         PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	X Lead : Arsenic			% Moisture
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August 17, 2023

Lannie Smith Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0019-C Laboratory Reference No. 2308-186

Dear Lannie:

Enclosed are the analytical results and associated quality control data for samples submitted on August 16, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Date of Report: August 17, 2023 Samples Submitted: August 16, 2023 Laboratory Reference: 2308-186 Project: 02-0019-C

# **Case Narrative**

Samples were collected on August 16, 2023 and received by the laboratory on August 16, 2023. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

# DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NA-BTTM-1-2					
Laboratory ID:	08-186-12					
Diesel Range Organics	ND	30	NWTPH-Dx	8-17-23	8-17-23	
Lube Oil Range Organics	ND	60	NWTPH-Dx	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	70	50-150				
Client ID:	NA-BTTM-2-3					
Laboratory ID:	08-186-13					
Diesel Range Organics	ND	27	NWTPH-Dx	8-17-23	8-17-23	
Lube Oil Range Organics	ND	53	NWTPH-Dx	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	56	50-150				
Client ID:	NA-ESW-1-1.5					
Laboratory ID:	08-186-14					
Diesel Range Organics	ND	29	NWTPH-Dx	8-17-23	8-17-23	
Lube Oil	210	57	NWTPH-Dx	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	66	50-150				
Client ID:	NA-ESW-2-0.5					
Laboratory ID:	08-186-15					
Diesel Range Organics	ND	27	NWTPH-Dx	8-17-23	8-17-23	
Lube Oil Range Organics	ND	54	NWTPH-Dx	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	70	50-150				
Client ID:	NA-SSW-1-1					
Laboratory ID:	08-186-16					
Diesel Range Organics	ND	29	NWTPH-Dx	8-17-23	8-17-23	
Lube Oil	120	58	NWTPH-Dx	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	83	50-150				



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Date of Report: August 17, 2023 Samples Submitted: August 16, 2023 Laboratory Reference: 2308-186 Project: 02-0019-C

## DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
MB0817S1					
ND	8.3	NWTPH-Dx	8-17-23	8-17-23	
ND	17	NWTPH-Dx	8-17-23	8-17-23	
Percent Recovery	Control Limits				
80	50-150				
	MB0817S1 ND ND Percent Recovery	MB0817S1ND8.3ND17Percent RecoveryControl Limits	MB0817S1       ND     8.3     NWTPH-Dx       ND     17     NWTPH-Dx       Percent Recovery     Control Limits	Result         PQL         Method         Prepared           MB0817S1         .         .         .         .           ND         8.3         NWTPH-Dx         8-17-23           ND         17         NWTPH-Dx         8-17-23           Percent Recovery         Control Limits         .         .	Result         PQL         Method         Prepared         Analyzed           MB0817S1

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	08-18	32-01								
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	40	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	40	
Surrogate:										
o-Terphenyl						71 74	50-150			



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Matrix: Soil Units: mg/Kg (ppm)

enne: nig/rig (ppm)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	SA-BTTM-9-3.5					
Laboratory ID:	08-186-01					
Arsenic	ND	12	EPA 6010D	8-17-23	8-17-23	
Lead	21	6.0	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-BTTM-10-3.5					
Laboratory ID:	08-186-02					
Arsenic	ND	12	EPA 6010D	8-17-23	8-17-23	
Lead	ND	6.2	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-NSW-1-1.5					
Laboratory ID:	08-186-03					
Arsenic	57	12	EPA 6010D	8-17-23	8-17-23	
Lead	250	6.2	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-BTTM-11-3.5					
Laboratory ID:	08-186-04					
Arsenic	ND	12	EPA 6010D	8-17-23	8-17-23	
Lead	ND	6.2	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-NSW-2-0.5					
Laboratory ID:	08-186-05					
Arsenic	ND	11	EPA 6010D	8-17-23	8-17-23	
Lead	230	5.3	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-NSW-2-1.5					
Laboratory ID: Arsenic	08-186-06 <b>13</b>	11	EPA 6010D	8-17-23	8-17-23	
	13	11 5.4	EPA 6010D EPA 6010D	8-17-23 8-17-23	8-17-23 8-17-23	
Lead	100	5.4	EFA OUTUD	0-17-23	0-17-23	
Client ID:	SA-WSW-1-1.5					
Laboratory ID:	08-186-07					
Arsenic	32	11	EPA 6010D	8-17-23	8-17-23	
Lead	300	5.4	EPA 6010D	8-17-23	8-17-23	



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Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	SA-WSW-2-1.5					
Laboratory ID:	08-186-08					
Arsenic	ND	11	EPA 6010D	8-17-23	8-17-23	
Lead	54	5.5	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-ESW-3-0.5					
Laboratory ID:	08-186-09					
Arsenic	ND	11	EPA 6010D	8-17-23	8-17-23	
Lead	68	5.3	EPA 6010D	8-17-23	8-17-23	
Client ID:	SA-ESW-4-1.5					
Laboratory ID:	08-186-10					
Arsenic	ND	10	EPA 6010D	8-17-23	8-17-23	
Lead	140	5.2	EPA 6010D	8-17-23	8-17-23	
Olionet ID:	SA-ESW-4-0.5					
Client ID:						
Laboratory ID:	08-186-11	10		0.47.00	0.47.00	
Arsenic	37	12	EPA 6010D	8-17-23	8-17-23	
Lead	100	6.1	EPA 6010D	8-17-23	8-17-23	
Client ID:	NA-BTTM-1-2					
Laboratory ID:	08-186-12					
Arsenic	ND	12	EPA 6010D	8-17-23	8-17-23	
Cadmium	ND	0.60	EPA 6010D	8-17-23	8-17-23	
Lead	ND	6.0	EPA 6010D	8-17-23	8-17-23	
Client ID:	NA-BTTM-2-3					
Laboratory ID:	08-186-13					
Arsenic	ND	11	EPA 6010D	8-17-23	8-17-23	
Cadmium	ND	0.53	EPA 6010D	8-17-23	8-17-23	
Lead	ND	5.3	EPA 6010D	8-17-23	8-17-23	



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Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NA-ESW-1-1.5					
Laboratory ID:	08-186-14					
Arsenic	41	11	EPA 6010D	8-17-23	8-17-23	
Cadmium	0.97	0.57	EPA 6010D	8-17-23	8-17-23	
Lead	280	5.7	EPA 6010D	8-17-23	8-17-23	
Client ID:	NA-ESW-2-0.5					
Laboratory ID:	08-186-15					
Arsenic	ND	11	EPA 6010D	8-17-23	8-17-23	
Cadmium	ND	0.54	EPA 6010D	8-17-23	8-17-23	
Lead	ND	5.4	EPA 6010D	8-17-23	8-17-23	
Client ID:	NA-SSW-1-1					
Laboratory ID:	08-186-16					
Arsenic	51	12	EPA 6010D	8-17-23	8-17-23	
Cadmium	2.3	0.58	EPA 6010D	8-17-23	8-17-23	
Lead	220	5.8	EPA 6010D	8-17-23	8-17-23	



## TOTAL METALS EPA 6010D QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0817SM2					
Arsenic	ND	10	EPA 6010D	8-17-23	8-17-23	
Cadmium	ND	0.50	EPA 6010D	8-17-23	8-17-23	
Lead	ND	5.0	EPA 6010D	8-17-23	8-17-23	

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	08-18	36-01								
	ORIG	DUP								
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Lead	17.4	17.3	NA	NA		NA	NA	1	20	

# MATRIX SPIKES

Laboratory ID:	08-18	86-01									
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	94.8	94.9	100	100	ND	95	95	75-125	0	20	
Cadmium	47.5	47.8	50.0	50.0	ND	95	96	75-125	1	20	
Lead	258	263	250	250	17.4	96	98	75-125	2	20	



## % MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
			-
SA-BTTM-9-3.5	08-186-01	17	8-16-23
SA-BTTM-10-3.5	08-186-02	19	8-16-23
SA-NSW-1-1.5	08-186-03	20	8-16-23
SA-BTTM-11-3.5	08-186-04	19	8-16-23
SA-NSW-2-0.5	08-186-05	5	8-16-23
SA-NSW-2-1.5	08-186-06	8	8-16-23
SA-WSW-1-1.5	08-186-07	8	8-16-23
SA-WSW-2-1.5	08-186-08	9	8-16-23
SA-ESW-3-0.5	08-186-09	6	8-16-23
SA-ESW-4-1.5	08-186-10	4	8-16-23
SA-ESW-4-0.5	08-186-11	18	8-16-23
NA-BTTM-1-2	08-186-12	16	8-16-23
NA-BTTM-2-3	08-186-13	6	8-16-23
NA-ESW-1-1.5	08-186-14	13	8-16-23
NA-ESW-2-0.5	08-186-15	8	8-16-23
NA-SSW-1-1	08-186-16	14	8-16-23



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881



## **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical \_\_\_\_\_
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1 Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 Sample extract treated with a silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

OnSite Environmental Inc.		ain of	Cı	ust	ody	y									Page	,	of_	2	_*	
Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052	Turnaround Re (in working d		L	_abo	rator	γ Νι	umb	er:	30	3 - 1	18	86								
Company: AHAS GEOSCIENCES NW Project Number:	(Check One Same Day	e)										WIS/0					0	th		
02-0019-0	2 Days	3 Days		8260[])				0			081	es 827	8151					admium		
Project Name: Special Interest Auto Project Manager: Cannie Smith/Chris Smith	Standard (7 Days		Italners	NWTPH-Gx/BTEX (8021	NWTPH-Gx NWTPH-Dx (SG Clean-up [])		Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs) PAHs 8270/SIM (low-level)		Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	tals	rais	HEM (oil and grease) 1664	Arsen	-Cad		
Sampled by: HVS	(other	)	HCID	Gx/BT	GX DX (SC	8260	ated Vo	\ 8011	atiles 82 -level 1 70/SIN	82	hlorine	hosphe	tèd Aci	RA Me	etals	and gr	0 6	-ul	lie	
Lab ID Sample Identification	Date Time Sampled Sampled		NUMBER OF COMBINERS	NWTPH-	NWTPH-GX NWTPH-DX	Volatiles 8260	Halogen	EDB EP/	Semivola (with low PAHs 82	PCBs 8082	Organoc	Organop	Chlorina	Total RCRA Metals	TCLP Metals	HEM (oil	Zrad	Ť	% Moisture	
	8/14/23 0840																X		K	
2 SA-BTTM-10-3.5	0856		2														X			
3 SA-NSW-1-1.5	0928	1 2															X			
4 SA-BTTM-11-3.5	0938		2														X			
5 SA-NSW-2-0.5	0958		2														X			
6 SA-NSW-2-1.5	0957		2														X			
7 SA-WSW-1-1.5	1038		2														X			
8 SA-WSW-2-1.5	¥ 1040		2														X			
9 SA-ESW-3-0.5	1100	0	2														X			
10 SA-ESW-4-1.5	V 1135		2														X			
Signature	Company			Date	Call of a state of the	Tim			Comn	ients/S	pecia	l Instr	uctior	IS						2
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OnSite Environmental Inc.			ain c	of	Cu	IS	00	ly		5								P	age _	2	of	2	-	
Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com	Tu (i	rnaround Req in working da	iys)		L	abo	rato	ory	Num	ıbe	r:	0	8 -	18	36									
Company: AHas Geosciences NW Project Number: 02-0019-C Project Name: Special Interest Anto Project Mahager: Lannie Smith / Chris Smith Sampled by: HVS Lab ID Sample Identification	Date Sampled	iys [ idard (7 Days) (other) Time Sampled	1 Day 3 Days Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 8260)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ])	Volatiles 8260 Halogenated Volatiles 8260	FDB FDA 8011 Maters Only	EUD EFA 0011 (Watel'S Unity) Semivolatiles 8270/SIM	(with low-level PAHs) PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead & Arsenic	Cadmium		7% Moisture
11 SA-ESW-4-0.5 12 NA-BTTM-1-2	8/16/23	1145	Soil	22				$\overline{\mathbf{v}}$			+	+	+	-	-						X			4
12 NA-BTTM-1-2 13 NA-BTTM-2-3		1222		2	-			$\overline{\langle}$		+	+	+	+	-							$\overline{\mathbf{v}}$	$\frac{\lambda}{\lambda}$	+	++
14 NA-ESW-1-1.5	1 V	1430		2	-		1	Ŷ													Ŷ	$\hat{\mathbf{X}}$	+	++
15 NA-ESW-2-05	5	1500		2				X													X	X		
46 NA-SSW-1-1	V	1520	V	2				X													X	X		J
Signature	C	ompany				Date	1		Time			Comm	ents/S	pecial	Instr	uctio	ns	1	1.00				dian.	
Relinquished Harmah April	5	Attes	Geo E	R/V	V 8	8	16/. 0/1	23	145 Uo															
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August 21, 2023

Lannie Smith Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0019-C Laboratory Reference No. 2308-207

Dear Lannie:

Enclosed are the analytical results and associated quality control data for samples submitted on August 17, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Date of Report: August 21, 2023 Samples Submitted: August 17, 2023 Laboratory Reference: 2308-207 Project: 02-0019-C

## **Case Narrative**

Samples were collected on August 17, 2023 and received by the laboratory on August 17, 2023. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

# DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NA-BTTM-3-3				-	
Laboratory ID:	08-207-01					
Diesel Range Organics	ND	26	NWTPH-Dx	8-18-23	8-18-23	
Lube Oil Range Organics	ND	53	NWTPH-Dx	8-18-23	8-18-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	70	50-150				
Client ID:	NA-BTTM-4-4.5					
Laboratory ID:	08-207-02					
Diesel Range Organics	ND	27	NWTPH-Dx	8-18-23	8-18-23	
Lube Oil Range Organics	ND	53	NWTPH-Dx	8-18-23	8-18-23	
		Control Limits	INVITI-DX	0-10-23	0-10-23	
Surrogate:	Percent Recovery					
o-Terphenyl	89	50-150				
Client ID:	NA-NSW-1-2					
Laboratory ID:	08-207-03					
Diesel Range Organics	ND	27	NWTPH-Dx	8-18-23	8-18-23	
Lube Oil	58	54	NWTPH-Dx	8-18-23	8-18-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	71	50-150				
Client ID:	NA-WSW-1-1					
Laboratory ID:	08-207-05	~-				
Diesel Range Organics	ND	27	NWTPH-Dx	8-18-23	8-18-23	
Lube Oil	120	55	NWTPH-Dx	8-18-23	8-18-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	81	50-150				
Client ID:	NA-WSW-1-2.75					
Laboratory ID:	08-207-06					
Diesel Range Organics	ND	46	NWTPH-Dx	8-18-23	8-21-23	U1
Lube Oil	400	59	NWTPH-Dx	8-18-23	8-21-23	•
Surrogate:	Percent Recovery	Control Limits		0.020	0 = 1 20	
o-Terphenyl	89	50-150				
Client ID:	NA-BTTM-5-3					
Laboratory ID:	08-207-07					
Diesel Range Organics	ND	28	NWTPH-Dx	8-18-23	8-18-23	
		56	NWTPH-Dx	8-18-23	8-18-23	
Lube Oil Range Organics	ND	50		0 10 20	0 10 20	
	ND Percent Recovery	Control Limits		0 10 20	0 10 20	



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# DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NA-WSW-2-1.5			•	•	
Laboratory ID:	08-207-10					
Diesel Range Organics	ND	28	NWTPH-Dx	8-18-23	8-18-23	
Lube Oil Range Organics	ND	56	NWTPH-Dx	8-18-23	8-18-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	69	50-150				
Client ID:	NA-BTTM-6-4.5					
_aboratory ID:	08-207-11					
Diesel Range Organics	ND	27	NWTPH-Dx	8-18-23	8-18-23	
ube Oil Range Organics	ND	55	NWTPH-Dx	8-18-23	8-18-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	76	50-150				
Client ID:	NA-SSW-2-1					
_aboratory ID:	08-207-13					
Diesel Range Organics	ND	95	NWTPH-Dx	8-18-23	8-18-23	U1
₋ube Oil	1400	53	NWTPH-Dx	8-18-23	8-18-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	83	50-150				
Client ID:	NA-SSW-3-1					
_aboratory ID:	08-207-14					
Diesel Range Organics	ND	47	NWTPH-Dx	8-18-23	8-18-23	U1
_ube Oil	490	57	NWTPH-Dx	8-18-23	8-18-23	
Surrogate:	Percent Recovery	Control Limits				
p-Terphenyl	81	50-150				
Client ID:	NA-ESW-4-1.5					
aboratory ID:	08-207-15					
Diesel Range Organics	ND	60	NWTPH-Dx	8-18-23	8-18-23	U1
_ube Oil	590	58	NWTPH-Dx	8-18-23	8-18-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	75	50-150				
Client ID:	NA-WSW-3-1.5					
_aboratory ID:	08-207-16					
Diesel Range Organics	ND	30	NWTPH-Dx	8-18-23	8-21-23	
_ube Oil	110	59	NWTPH-Dx	8-18-23	8-21-23	
Surrogate: o-Terphenyl	Percent Recovery 81	Control Limits 50-150				



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# DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NA-ESW-6-1.5					
Laboratory ID:	08-207-18					
Diesel Range Organics	ND	28	NWTPH-Dx	8-18-23	8-18-23	
Lube Oil	220	57	NWTPH-Dx	8-18-23	8-18-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	71	50-150				
Client ID:	NA-ESW-7-1.5					

Client ID:	NA-ESW-7-1.5					
Laboratory ID:	08-207-19					
Diesel Range Organics	ND	28	NWTPH-Dx	8-18-23	8-18-23	
Lube Oil Range Organics	ND	56	NWTPH-Dx	8-18-23	8-18-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	77	50-150				

Date of Report: August 21, 2023 Samples Submitted: August 17, 2023 Laboratory Reference: 2308-207 Project: 02-0019-C

## DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
MB0818S1					
ND	25	NWTPH-Dx	8-18-23	8-18-23	
ND	50	NWTPH-Dx	8-18-23	8-18-23	
Percent Recovery	Control Limits				
86	50-150				
-	MB0818S1 ND ND Percent Recovery	MB0818S1 ND 25 ND 50 Percent Recovery Control Limits	MB0818S1ND25ND50NWTPH-DxPercent RecoveryControl Limits	Result         PQL         Method         Prepared           MB0818S1         -<	Result         PQL         Method         Prepared         Analyzed           MB0818S1         -

					Source	Perc	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Reco	very	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	08-20	)7-01									
	ORIG	DUP									
Diesel Range	ND	ND	NA	NA		N	A	NA	NA	40	
Lube Oil Range	ND	ND	NA	NA		N	A	NA	NA	40	
Surrogate:											
o-Terphenyl						70	70	50-150			
Laboratory ID:	08-20	)7-02									
	ORIG	DUP									
Diesel Range	ND	ND	NA	NA		N	A	NA	NA	40	
Lube Oil Range	ND	ND	NA	NA		N	A	NA	NA	40	
Surrogate:											
o-Terphenyl						89	74	50-150			



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Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NA-BTTM-3-3					
Laboratory ID:	08-207-01					
Arsenic	ND	11	EPA 6010D	8-18-23	8-18-23	
Cadmium	ND	0.53	EPA 6010D	8-18-23	8-18-23	
Lead	ND	5.3	EPA 6010D	8-18-23	8-18-23	
Client ID:	NA-BTTM-4-4.5					
Laboratory ID:	08-207-02					
Arsenic	ND	11	EPA 6010D	8-18-23	8-18-23	
Cadmium	ND	0.53	EPA 6010D	8-18-23	8-18-23	
Lead	ND	5.3	EPA 6010D	8-18-23	8-18-23	
Client ID:	NA-NSW-1-2					
Laboratory ID:	08-207-03					
Arsenic	ND	11	EPA 6010D	8-18-23	8-18-23	
Cadmium	ND	0.54	EPA 6010D	8-18-23	8-18-23	
Lead	17	5.4	EPA 6010D	8-18-23	8-18-23	
Client ID:	NA-WSW-1-1					
Laboratory ID:	08-207-05					
Arsenic	18	11	EPA 6010D	8-18-23	8-18-23	
Cadmium	0.99	0.55	EPA 6010D	8-18-23	8-18-23	
Lead	110	5.5	EPA 6010D	8-18-23	8-18-23	
Client ID:	NA-WSW-1-2.75					
Laboratory ID:	08-207-06					
Arsenic	15	12	EPA 6010D	8-18-23	8-18-23	
Cadmium	0.85	0.59	EPA 6010D	8-18-23	8-18-23	
Lead	91	5.9	EPA 6010D	8-18-23	8-18-23	
Client ID:	NA-BTTM-5-3					
Laboratory ID:	08-207-07					
Arsenic	ND	11	EPA 6010D	8-18-23	8-18-23	
Cadmium	ND	0.56	EPA 6010D	8-18-23	8-18-23	
Lead	ND	5.6	EPA 6010D	8-18-23	8-18-23	



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Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	SA-SSW-5-3					
Laboratory ID:	08-207-08					
Arsenic	15	13	EPA 6010D	8-18-23	8-18-23	
Client ID:	SA-ESW-5-2.5					
Laboratory ID:	08-207-09					
Arsenic	ND	13	EPA 6010D	8-18-23	8-18-23	
Client ID:	NA-WSW-2-1.5					
Laboratory ID:	08-207-10	4.4		0.40.00	0.40.00	
Arsenic	18	11	EPA 6010D	8-18-23	8-18-23	
Cadmium	0.59	0.56	EPA 6010D	8-18-23	8-18-23	
Lead	38	5.6	EPA 6010D	8-18-23	8-18-23	
Client ID:	NA-BTTM-6-4.5					
Laboratory ID:	08-207-11					
Arsenic	ND	11	EPA 6010D	8-18-23	8-18-23	
Cadmium	ND	0.55	EPA 6010D	8-18-23	8-18-23	
Lead	6.2	5.5	EPA 6010D	8-18-23	8-18-23	
Client ID:	SA-WSW-3-1.5					
Laboratory ID:	08-207-12					
Arsenic	22	11	EPA 6010D	8-18-23	8-18-23	
Client ID:	NA-SSW-2-1					
Laboratory ID:	08-207-13					
Arsenic	<u> </u>	10	EPA 6010D	8-18-23	8-18-23	
Cadmium	1.4	0.52	EPA 6010D	8-18-23	8-18-23	
Lead	150	5.2	EPA 6010D	8-18-23	8-18-23	
Leau	190	J.Z	EPA OUTUD	0-10-23	0-10-23	



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Matrix: Soil Units: mg/Kg (ppm)

- 0° 0 (TT /				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NA-SSW-3-1					
Laboratory ID:	08-207-14					
Arsenic	43	11	EPA 6010D	8-18-23	8-18-23	
Cadmium	1.6	0.57	EPA 6010D	8-18-23	8-18-23	
Lead	460	5.7	EPA 6010D	8-18-23	8-18-23	
Client ID:	NA-ESW-4-1.5					
Laboratory ID:	08-207-15					
Arsenic	24	12	EPA 6010D	8-18-23	8-18-23	
Cadmium	0.86	0.58	EPA 6010D	8-18-23	8-18-23	
Lead	110	5.8	EPA 6010D	8-18-23	8-18-23	
Client ID:	NA-WSW-3-1.5					
Laboratory ID:	08-207-16					
Arsenic	41	12	EPA 6010D	8-18-23	8-18-23	
Cadmium	1.5	0.59	EPA 6010D	8-18-23	8-18-23	
Lead	110	5.9	EPA 6010D	8-18-23	8-18-23	
Client ID:	NA-ESW-6-1.5					
Laboratory ID:	08-207-18					
Arsenic	43	11	EPA 6010D	8-18-23	8-18-23	
Cadmium	1.5	0.57	EPA 6010D	8-18-23	8-18-23	
Lead	370	5.7	EPA 6010D	8-18-23	8-18-23	
Client ID:	NA-ESW-7-1.5					
	08-207-19					
Laboratory ID:		11		0 10 00	0 10 00	
Arsenic	15 ND	11	EPA 6010D	8-18-23	8-18-23	
Cadmium	ND	0.56	EPA 6010D	8-18-23	8-18-23	
Lead	31	5.6	EPA 6010D	8-18-23	8-18-23	



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## TOTAL METALS EPA 6010D QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

ee				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0818SM1					
Arsenic	ND	10	EPA 6010D	8-18-23	8-18-23	
Cadmium	ND	0.50	EPA 6010D	8-18-23	8-18-23	
Lead	ND	5.0	EPA 6010D	8-18-23	8-18-23	

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	08-20	07-01								
	ORIG	DUP								
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	

# MATRIX SPIKES

Laboratory ID:	08-2	07-01									
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	101	101	100	100	ND	101	101	75-125	0	20	
Cadmium	45.1	45.8	50.0	50.0	ND	90	92	75-125	2	20	
Lead	262	265	250	250	ND	105	106	75-125	1	20	



### TOTAL LEAD EPA 6010D

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	SA-WSW-3-1.5					
Laboratory ID:	08-207-12					
Lead	120	5.5	EPA 6010D	8-18-23	8-18-23	



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## TOTAL LEAD EPA 6010D QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

								Date	Dat	e	
Analyte		Result		PQL	М	ethod	I	Prepared	Analy	zed	Flags
METHOD BLANK											
Laboratory ID:		MB0818SM1									
Lead		ND		5.0	EP/	A 6010	)D	8-18-23	8-18-	23	
					Source	Pei	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	e Level	Result	Rec	overy	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	08-20	07-01									
	ORIG	DUP									
Lead	ND	ND	NA	NA		1	NA	NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	08-20	07-01									
	MS	MSD	MS	MSD		MS	MSD				
Lead	254	258	250	250	ND	102	103	75-125	1	20	



# % MOISTURE

			Date
Client ID	Lab ID	% Moisture	Analyzed
NA-BTTM-3-3	08-207-01	5	8-18-23
NA-BTTM-4-4.5	08-207-02	6	8-18-23
NA-NSW-1-2	08-207-03	8	8-18-23
NA-WSW-1-1	08-207-05	8	8-18-23
NA-WSW-1-2.75	08-207-06	16	8-18-23
NA-BTTM-5-3	08-207-07	10	8-18-23
SA-SSW-5-3	08-207-08	21	8-18-23
SA-ESW-5-2.5	08-207-09	21	8-18-23
NA-WSW-2-1.5	08-207-10	10	8-18-23
NA-BTTM-6-4.5	08-207-11	8	8-18-23
SA-WSW-3-1.5	08-207-12	9	8-18-23
NA-SSW-2-1	08-207-13	5	8-18-23
NA-SSW-3-1	08-207-14	13	8-18-23
NA-ESW-4-1.5	08-207-15	13	8-18-23
NA-WSW-3-1.5	08-207-16	16	8-18-23
NA-ESW-6-1.5	08-207-18	12	8-18-23
NA-ESW-7-1.5	08-207-19	10	8-18-23



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## **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1 Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 Sample extract treated with a silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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OnSite Environmental Inc.		Cha	ain o	) <b>f</b> (	Cu	IST	00	ly										Pa	age _	]	of	2		
Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052		irnaround Req in working da			L	abo	rato	ory	Num	ber	: (	8	- 2	20	7.									
Project Name: Project Name: Project Manager: Project Mahager: Project Mahager:		(	1 Day <b>^ </b> 3 Days			X (8021[] 8260[])		NWTPH-Dx (SG Clean-up 🗍)	atiles 8260	EDB EPA 8011 (Waters Only)	WIS/0/	(low-level)		Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	als	als		ase) 1664	: Lead		SIN C	
Project Mahager: Lannie Smith / Chris Smith Sampled by: HVS		(other)		Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021	NWTPH-Gx	PH-Dx (SG	Volatiles 8260 Halogenated Volatiles 8260	EPA 8011 (	Semivolatiles 8270/SIM	PAHs 8270/SIM (low-level)	PCBs 8082	nochlorine	ohdsohdon	rinated Acic	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Arcenic	adu	1138	% Moisture
Lab ID Sample Identification	Date Sampled	Time Sampled	Matrix	Num	NWT	NWT	TWN	TWN	Volat Haloo	EDB	Semi	PAHs	PCB	Orga	Orga	Chlor	Total	Total	TCLF	HEM	A			% Mc
I NA-BTTM-3-3	8/17/2	3 0815	Soil	2	L			X													X	X		Ø
2 NA-BTTM-4-4.5	8/17/2	30826	1	2				X						.e							X	X		
3 NA-NSW-1-2	I.	0840		2				X													X	$\mathbf{X}$		V
4 NA-ESW-3-1.5		0905		2																(	X	Ser.		
5 NA-WSW-1-1		0921		2				X													X	X		$\otimes$
6 NA-WSW-1-2.75		0925		2				X													X	X.		
7 NA-BTTM-5-3		0935		2				X													X	X		
8 SA-SSW-5-3		1030		2																	X			
9 SA-ESW-5-2.5		1058		1																1	X	$\mathbb{N}$	X	
10 NA-WSW-2-1.5	$\vee$	1150	V	2				X													X	X		~
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OnSite Environmental Inc.		ain o	f(														Pa	ige _	2	of_	2		
Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052	irnaround Req (in working da			L	abo	rato	ory	Num	ber	0	8-	-2	0	7									
14648 NE 95th Street · Redmond, WA 98052         Phone: (425) 883-3881 · www.onsite-env.com         Company:         AHAS Creas (ience s NW         Project Number:         02-0019-C         Project Name:         Special Interest Atuto         Project Name:         Lannie Smith (Chris Smith)         Sample Identification         11       NA-BTTM-6-4.5         12       SA-WSW-3-1.5         13       NA-SSW-2-1         149       NA-ESW-4-1.5         15       NA-ESW-5-0.5         16       NA-ESW-7-1.5         17       NA-ESW-7-1.5         18       NA-ESW-7-1.5         Signature         Relinquished	(in working da (Check One) ne Day ] ays [ ndard (7 Days) (other) Time Sampled	ys) X 1 Day - ( 3 Days Matrix So i 1	X X X X X X - X Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 8260 )	NWTPH-GX	S X X X X X NWTPH-Dx (SG Clean-upD)	Volatiles 8260	EDB EPA 8011 (Waters Only)	CO Semivolatiles 8270/SIM	SIM (low-level)	LCBS 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	ction	S			HEM (oil and grease) 1664	XXXXXXXX Ansenic	X X X X X Cadmium	X X X X X X Lead	% Moisture
Relinquished	 					-				-													
Received										Dat	a Doo	kare	Sto	Indor	4 🗆	1.01/			Louis				
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August 21, 2023

Chris Smith Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0019-C Laboratory Reference No. 2308-211

Dear Chris:

Enclosed are the analytical results and associated quality control data for samples submitted on August 18, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Date of Report: August 21, 2023 Samples Submitted: August 18, 2023 Laboratory Reference: 2308-211 Project: 02-0019-C

## **Case Narrative**

Samples were collected on August 18, 2023 and received by the laboratory on August 18, 2023. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

# DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NA-NSW-1-3.5					
Laboratory ID:	08-211-05					
Diesel Range Organics	ND	27	NWTPH-Dx	8-18-23	8-18-23	
Lube Oil Range Organics	ND	53	NWTPH-Dx	8-18-23	8-18-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	74	50-150				
Client ID:	NA-WSW-2-4					

Laboratory ID:	08-211-06					
Diesel Range Organics	ND	26	NWTPH-Dx	8-18-23	8-18-23	
Lube Oil Range Organics	ND	52	NWTPH-Dx	8-18-23	8-18-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	81	50-150				

Date of Report: August 21, 2023 Samples Submitted: August 18, 2023 Laboratory Reference: 2308-211 Project: 02-0019-C

## DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
MB0818S1					
ND	25	NWTPH-Dx	8-18-23	8-18-23	
ND	50	NWTPH-Dx	8-18-23	8-18-23	
Percent Recovery	Control Limits				
86	50-150				
	MB0818S1 ND ND Percent Recovery	MB0818S1ND25ND50Percent RecoveryControl Limits	MB0818S1ND25ND50Percent RecoveryControl Limits	Result         PQL         Method         Prepared           MB0818S1         -<	Result         PQL         Method         Prepared         Analyzed           MB0818S1         -

					Source	Perc	ent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Reco	very	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	08-20	)7-01									
	ORIG	DUP									
Diesel Range	ND	ND	NA	NA		N	A	NA	NA	40	
Lube Oil Range	ND	ND	NA	NA		N	A	NA	NA	40	
Surrogate:											
o-Terphenyl						70	70	50-150			



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Matrix: Soil Units: mg/Kg (ppm)

Result           SA-NSW-1-2.5           08-211-01           ND           6.5	PQL 12	Method	Prepared	Analyzed	Flags
08-211-01 ND					
ND					
6.5	<u> </u>	EPA 6010D	8-18-23	8-18-23	
	6.1	EPA 6010D	8-18-23	8-18-23	
SA-WSW-1-2.5					
08-211-02					
ND	13	EPA 6010D	8-18-23	8-18-23	
ND	6.7	EPA 6010D	8-18-23	8-18-23	
SA-NSW-3-1.5					
08-211-03					
ND	13	EPA 6010D	8-18-23	8-18-23	
16	6.4	EPA 6010D	8-18-23	8-18-23	
SA-SSW-4-3					
08-211-04					
ND	12	EPA 6010D	8-18-23	8-18-23	
ND	6.2	EPA 6010D	8-18-23	8-18-23	
NA-NSW-1-3.5					
08-211-05					
ND	11	EPA 6010D	8-18-23	8-18-23	
ND	0.53	EPA 6010D	8-18-23	8-18-23	
ND	5.3	EPA 6010D	8-18-23	8-18-23	
N					
	10		9 19 22	9 19 22	
	08-211-02 ND ND SA-NSW-3-1.5 08-211-03 ND 16 SA-SSW-4-3 08-211-04 ND ND ND ND ND ND ND ND ND ND ND	08-211-02         13           ND         13           ND         6.7           SA-NSW-3-1.5         08-211-03           08-211-03         13           16         6.4           SA-SSW-4-3         08-211-04           ND         12           ND         6.2           NA-NSW-1-3.5         6.2           NA-NSW-1-3.5         08-211-05           ND         11           ND         5.3           ND         5.3           NA-WSW-2-4         08-211-06           ND         10           ND         10           ND         10           ND         10	08-211-02         ND         13         EPA 6010D           ND         6.7         EPA 6010D           SA-NSW-3-1.5         BPA 6010D           08-211-03         I         I           ND         13         EPA 6010D           SA-NSW-3-1.5         08-211-03         I           SA-SSW-4-3         08-211-04         EPA 6010D           SA-SSW-4-3         08-211-04         I           ND         12         EPA 6010D           ND         6.2         EPA 6010D           ND         6.2         EPA 6010D           ND         11         EPA 6010D           ND         11         EPA 6010D           ND         0.53         EPA 6010D           ND         5.3         EPA 6010D           ND         5.3         EPA 6010D           ND         5.3         EPA 6010D           ND         10         EPA 6010D           ND         10         EPA 6010D           ND         10         EPA 6010D	08-211-02         ND         13         EPA 6010D         8-18-23           ND         6.7         EPA 6010D         8-18-23           SA-NSW-3-1.5         EPA 6010D         8-18-23           08-211-03         ND         13         EPA 6010D         8-18-23           ND         13         EPA 6010D         8-18-23         16           SA-SSW-4-3         6.4         EPA 6010D         8-18-23           SA-SSW-4-3         08-211-04         8-18-23         16           ND         12         EPA 6010D         8-18-23           ND         6.2         EPA 6010D         8-18-23           ND         6.2         EPA 6010D         8-18-23           ND         11         EPA 6010D         8-18-23           ND         11         EPA 6010D         8-18-23           ND         0.53         EPA 6010D         8-18-23           ND         5.3         EPA 6010D         8-18-23           ND         10         EPA 60	08-211-02         ND         13         EPA 6010D         8-18-23         8-18-23           ND         6.7         EPA 6010D         8-18-23         8-18-23           SA-NSW-3-1.5



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5

## TOTAL METALS EPA 6010D QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0818SM2					
Arsenic	ND	10	EPA 6010D	8-18-23	8-18-23	
Cadmium	ND	0.50	EPA 6010D	8-18-23	8-18-23	
Lead	ND	5.0	EPA 6010D	8-18-23	8-18-23	

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	08-21	11-01								
	ORIG	DUP								
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Lead	5.30	ND	NA	NA		NA	NA	NA	20	

# MATRIX SPIKES

Laboratory ID:	08-2	11-01									
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	99.0	100	100	100	ND	99	100	75-125	1	20	
Cadmium	45.3	45.1	50.0	50.0	ND	91	90	75-125	1	20	
Lead	254	253	250	250	5.30	100	99	75-125	0	20	



Date of Report: August 21, 2023 Samples Submitted: August 18, 2023 Laboratory Reference: 2308-211 Project: 02-0019-C

## % MOISTURE

			Date
Client ID	Lab ID	% Moisture	Analyzed
SA-NSW-1-2.5	08-211-01	18	8-18-23
SA-WSW-1-2.5	08-211-02	25	8-18-23
SA-NSW-3-1.5	08-211-03	21	8-18-23
SA-SSW-4-3	08-211-04	20	8-18-23
NA-NSW-1-3.5	08-211-05	6	8-18-23
NA-WSW-2-4	08-211-06	3	8-18-23



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## **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical \_\_\_\_\_
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1 Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 Sample extract treated with a silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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OnSite Environmental Inc.		Cha	ain o	f	Cı	IS	to	dy											P	age _	\	of		<b></b>		
Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052	Tur (i	naround Req n working da	uest ys)		L	abo	orate	ory	Nu	mb	er:	C	8	- 2	21	1										
Phone: (425) 883-3881 $\cdot$ www.onsite-env.com Company: $\mathcal{H}$ ( $\circ$ C $\mathcal{N}$ $\mathcal{M}$ Project Number: $\mathcal{O}$ 2 $- \mathcal{O}\mathcal{O}$ 1 $\mathcal{Q}$ $- \mathcal{C}$ Project Name:	2 Da		1 Day 3 Days	L'S		021[] 8260[])		( dn-u		8260	rs Only)	W	level)		cides 8081	Organophosphorus Pesticides 8270/SIM	oicides 8151				1664	le end				
Project Manager: Chris Smith / Lannie Smith Sampled by: Chris Smith	- <u> </u>	y On (other)	6(21	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021	NWTPH-Gx	NWTPH-Dx (SG Clean-up ]]	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	8270/SIM (low-	PCBs 8082	Organochlorine Pesticides 8081	ophosphorus P	Chlorinated Acid Herbicides	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Arguic +	d win m			sture
Lab ID Sample Identification	Date Sampled	Time Sampled	Matrix	Numt	NWTF	NWTF	NWTF	NWTF	Volati	Halog	EDB E	Semiv (with I	PAHs	PCBs	Organ	Organ	Chlori	Total F	Total I	TCLP	HEM	Ars	9			% Moisture
1 SA-NSW-1-2.5	8118	0835	S	1																		$\times$				X
2 SA - WSW -1-2.5 3 SA - NSW -3-1.5	8/18	0848	5	1																		Х				
3 SA - NSW - 3-1.5	8/18	0850	2	\																		X				
9 SA - JSW - 4-3	8/18	0854	S	(																		$\times$				
\$ NA- NSW-1-3.5	8/18	0905	5	2				X													4	$\times$	X			
6 NA-WSW-2-4	8118	0910	5	2				X														X	X			/
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Signature	C	ompany				Date			Time		N.S.	Соп	iment	ts/Sp	ecial	Instru	uctio	ns	0853					Sale.		
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August 22, 2023

Lannie Smith Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0019-C Laboratory Reference No. 2308-227

Dear Lannie:

Enclosed are the analytical results and associated quality control data for samples submitted on August 21, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Date of Report: August 22, 2023 Samples Submitted: August 21, 2023 Laboratory Reference: 2308-227 Project: 02-0019-C

## **Case Narrative**

Samples were collected on August 21, 2023 and received by the laboratory on August 21, 2023. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



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# DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NA-BTTM-7-4					
Laboratory ID:	08-227-04					
Diesel Range Organics	ND	29	NWTPH-Dx	8-21-23	8-21-23	
Lube Oil	62	59	NWTPH-Dx	8-21-23	8-21-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	74	50-150				
Client ID:						

Client ID:	NA-BTTM-8-4.5					
Laboratory ID:	08-227-05					
Diesel Range Organics	ND	26	NWTPH-Dx	8-21-23	8-21-23	
Lube Oil	53	53	NWTPH-Dx	8-21-23	8-21-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	72	50-150				



Date of Report: August 22, 2023 Samples Submitted: August 21, 2023 Laboratory Reference: 2308-227 Project: 02-0019-C

## DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
MB0821S1					
ND	25	NWTPH-Dx	8-21-23	8-21-23	
ND	50	NWTPH-Dx	8-21-23	8-21-23	
Percent Recovery	Control Limits				
84	50-150				
	MB0821S1 ND ND Percent Recovery	MB0821S1 ND 25 ND 50 Percent Recovery Control Limits	MB0821S1ND25ND50NWTPH-DxPercent RecoveryControl Limits	ResultPQLMethodPreparedMB0821S1 </td <td>Result         PQL         Method         Prepared         Analyzed           MB0821S1         -</td>	Result         PQL         Method         Prepared         Analyzed           MB0821S1         -

				Source	Perc	ent	Recovery		RPD	
Res	sult	Spike	Level	Result	Reco	very	Limits	RPD	Limit	Flags
08-21	16-01									
ORIG	DUP									
ND	ND	NA	NA		NA	4	NA	NA	40	
85.9	76.0	NA	NA		NA	4	NA	12	40	
					78	76	50-150			
	08-2 ORIG <b>ND</b>	ND ND	08-216-01 ORIG DUP <b>ND ND</b> NA	08-216-01 ORIG DUP <b>ND ND</b> NA NA	Result     Spike Level     Result       08-216-01         ORIG     DUP        ND     NA     NA	Result         Spike Level         Result         Reco           08-216-01	Result         Spike Level         Result         Recovery           08-216-01         08-216-01         08-216-01         08-216-01         08-216-01           ORIG         DUP         08-216-01         08-216-01         08-216-01         08-216-01           ND         ND         NA         NA         NA         NA           S5.9         76.0         NA         NA         NA	ResultSpike LevelResultRecoveryLimits08-216-01ORIGDUPNDNDNANANA85.976.0NANANA	ResultSpike LevelResultRecoveryLimitsRPD08-216-01ORIGDUPNDNDNANANANA85.976.0NANANA12	ResultSpike LevelResultRecoveryLimitsRPDLimit08-216-01ORIGDUPNDNDNANANANA4085.976.0NANANA1240



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#### TOTAL METALS EPA 6010D

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NA-SSW-4-1					
Laboratory ID:	08-227-01					
Arsenic	ND	10	EPA 6010D	8-21-23	8-21-23	
Lead	49	5.2	EPA 6010D	8-21-23	8-21-23	
Client ID:	NA-WSW-4-1.5					
Laboratory ID:	08-227-02					
Arsenic	18	12	EPA 6010D	8-21-23	8-21-23	
Client ID:	NA-ESW-8-1.5					
Laboratory ID:	08-227-03					
Arsenic	ND	11	EPA 6010D	8-21-23	8-21-23	
Lead	ND	5.4	EPA 6010D	8-21-23	8-21-23	
Client ID:	NA-BTTM-7-4					
Laboratory ID:	08-227-04					
Arsenic	ND	12	EPA 6010D	8-21-23	8-21-23	
Cadmium	ND	0.59	EPA 6010D	8-21-23	8-21-23	
Lead	ND	5.9	EPA 6010D	8-21-23	8-21-23	
Client ID:	NA-BTTM-8-4.5					
Laboratory ID:	08-227-05					
Arsenic	ND	11	EPA 6010D	8-21-23	8-21-23	
Cadmium	ND	0.53	EPA 6010D	8-21-23	8-21-23	
Lead	ND	5.3	EPA 6010D	8-21-23	8-21-23	



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#### TOTAL METALS EPA 6010D QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0821SM1					
Arsenic	ND	10	EPA 6010D	8-21-23	8-21-23	
Cadmium	ND	0.50	EPA 6010D	8-21-23	8-21-23	
Lead	ND	5.0	EPA 6010D	8-21-23	8-21-23	

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	08-22	27-01								
	ORIG	DUP								
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Lead	47.4	46.0	NA	NA		NA	NA	3	20	

# MATRIX SPIKES

Laboratory ID:	08-22	27-01									
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	92.8	93.4	100	100	ND	93	93	75-125	1	20	
Cadmium	44.6	45.2	50.0	50.0	ND	89	90	75-125	1	20	
Lead	252	260	250	250	47.4	82	85	75-125	3	20	



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Date of Report: August 22, 2023 Samples Submitted: August 21, 2023 Laboratory Reference: 2308-227 Project: 02-0019-C

## % MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
NA-SSW-4-1	08-227-01	4	8-21-23
NA-WSW-4-1.5	08-227-02	16	8-21-23
NA-ESW-8-1.5	08-227-03	8	8-21-23
NA-BTTM-7-4	08-227-04	15	8-21-23
NA-BTTM-8-4.5	08-227-05	5	8-21-23



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### **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical \_\_\_\_\_
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1 Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 Sample extract treated with a silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

Prome (company:         Attlass Geosciences NN         Company:         Service Name         Serv	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052	Chain C Turnaround Request (in working days)		ISTODY	Number:	08-227	Page of
I       NA-SSW-4-1       8/21/23       0950       Soil       1       XX         Z       NA-WSW -4-1.5       8/21/23       1040       Soil       1       XX         3       NA-ESN-8-1.5       8/21/23       1140       Soil       XX       XX         Y       NA-BTTM-7-4       8/21/23       1210       Soil       XX       XX         Y       NA-BTTM-7-4       8/21/23       1210       Soil       XX       XX         S       NA-BTTM-8-4.5       8/21/23       1215       Soil       XX       XX         S       NA-BTTM-8-4.5       8/21/23       1215       Soil       XX       XX         S       NA-BTTM-8-4.5       8/21/23       1215       Soil       XX       XX         S       NA-BTTM-8-4.5       8/21/23       122       XX       XX       XX         S       NA-BTM-8-4.5       8/21/23       123.22       XX       XX       XX         S       NA-BTM-8-4.5       8/21/23       13.22       XX       XX       XX         Pelinguished       Haugh Appen       Atlas Geo NW       8/21/23       13.22       Results - by 8/22 morning if possible         Received       NA </td <td>Company: Atlas Geosciences NW Project Number: 02-0019-C Project Name: Special Interest Auto Project Manager: Lahnie Smith/Chris Smith</td> <td>Same Day A Vay 2 Days 3 Days Standard (7 Days)</td> <td>er of Containers H-HCID</td> <td>H-Gx/BTEX (8021 8260 )) H-Gx H-Dx (SG Clean-up ))</td> <td>es 8260 enated Volatiles 8260 :PA 8011 (Waters Only)</td> <td>olatiles 8270/SIM ow-level PAHs) 8270/SIM (low-level) 8082 ochlorine Pesticides 8081 ophosphorus Pesticides 8270/SIM nated Acid Herbicides 8151 nated Acid Herbicides 8151</td> <td>ATCA Metals Metals Metals oil and grease) 1664 Scenic Canic Canic Canic Canic Canic Canic Sture</td>	Company: Atlas Geosciences NW Project Number: 02-0019-C Project Name: Special Interest Auto Project Manager: Lahnie Smith/Chris Smith	Same Day A Vay 2 Days 3 Days Standard (7 Days)	er of Containers H-HCID	H-Gx/BTEX (8021 8260 )) H-Gx H-Dx (SG Clean-up ))	es 8260 enated Volatiles 8260 :PA 8011 (Waters Only)	olatiles 8270/SIM ow-level PAHs) 8270/SIM (low-level) 8082 ochlorine Pesticides 8081 ophosphorus Pesticides 8270/SIM nated Acid Herbicides 8151 nated Acid Herbicides 8151	ATCA Metals Metals Metals oil and grease) 1664 Scenic Canic Canic Canic Canic Canic Canic Sture
Relinquished Hamah Apean Atlas Geo NW 8/21/23 1322 Received ASE A21/23 1322 Results by 8/22 morning if Relinquished Possible	1 NA-SSW-4-1 2 NA-WSW-4-1.5 3 NA-ESW-8-1.5 4 NA-BTTM-7-4	Sampled         Sampled         Matrix           8/21/23         0950         Soil           8/21/23         1040         Soil           8/21/23         1040         Soil           8/21/23         1140         Soil           8/21/23         1140         Soil           8/21/23         1210         Soil	1 1 1 2		Volatii Halog	Mith     Seminary       With I     (with I       With I     Organ       PCBs     PCBs       PCBs     PCBs	TCLP Meta Total MTCA TCLP Meta TCLP Meta TCLP Meta TCLP Meta
Received     Data Package: Standard     Level IV	Relinquished Harrah Ape Received Relinquished Relinquished		NW	8/21/23	1322	Results by ASAP	7



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August 23, 2023

Lannie Smith Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0019-C Laboratory Reference No. 2308-244

Dear Lannie:

Enclosed are the analytical results and associated quality control data for samples submitted on August 22, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Date of Report: August 23, 2023 Samples Submitted: August 22, 2023 Laboratory Reference: 2308-244 Project: 02-0019-C

## **Case Narrative**

Samples were collected on August 22, 2023 and received by the laboratory on August 22, 2023. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



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# DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: Laboratory ID:	NA-ESW-10-1.5 08-244-03			·	-	
Diesel Range Organics Lube Oil	ND 76	30 60	NWTPH-Dx NWTPH-Dx	8-22-23 8-22-23	8-22-23 8-22-23	
Surrogate: o-Terphenyl	Percent Recovery 81	Control Limits 50-150				
Client ID:	NA ESW 11 1 5					

Client ID:	NA-ESW-11-1.5					
Laboratory ID:	08-244-04					
Diesel Range Organics	ND	30	NWTPH-Dx	8-22-23	8-22-23	
Lube Oil	110	59	NWTPH-Dx	8-22-23	8-22-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	78	50-150				



#### DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
MB0822S1					
ND	25	NWTPH-Dx	8-22-23	8-22-23	
ND	50	NWTPH-Dx	8-22-23	8-22-23	
Percent Recovery	Control Limits				
97	50-150				
	MB0822S1 ND ND Percent Recovery	MB0822S1 ND 25 ND 50 Percent Recovery Control Limits	MB0822S1ND25ND50NWTPH-DxPercent RecoveryControl Limits	Result         PQL         Method         Prepared           MB0822S1	Result         PQL         Method         Prepared         Analyzed           MB0822S1

					Source	Perc	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Reco	overy	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	08-24	44-03									
	ORIG	DUP									
Diesel Range	ND	ND	NA	NA		Ν	A	NA	NA	40	
Lube Oil	63.6	62.1	NA	NA		Ν	A	NA	2	40	
Surrogate:											
o-Terphenyl						81	73	50-150			



4

#### TOTAL METALS EPA 6010D

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	SA-WSW-4-1.5					
Laboratory ID:	08-244-01					
Arsenic	ND	12	EPA 6010D	8-22-23	8-22-23	
Client ID:	NA-ESW-9-1.5					
Laboratory ID:	08-244-02					
Arsenic	17	12	EPA 6010D	8-22-23	8-22-23	
Client ID:	NA-ESW-10-1.5					
Laboratory ID:	08-244-03					
Arsenic	16	12	EPA 6010D	8-22-23	8-22-23	
Cadmium	ND	0.60	EPA 6010D	8-22-23	8-22-23	
Lead	19	6.0	EPA 6010D	8-22-23	8-22-23	
Client ID:	NA-ESW-11-1.5					
Laboratory ID:	08-244-04					
Arsenic	ND	12	EPA 6010D	8-22-23	8-22-23	
Cadmium	ND	0.59	EPA 6010D	8-22-23	8-22-23	
Lead	6.0	5.9	EPA 6010D	8-22-23	8-22-23	



#### TOTAL METALS EPA 6010D QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0822SM1					
Arsenic	ND	10	EPA 6010D	8-22-23	8-22-23	
Cadmium	ND	0.50	EPA 6010D	8-22-23	8-22-23	
Lead	ND	5.0	EPA 6010D	8-22-23	8-22-23	

				Source	Percent	Recovery		RPD	
Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
08-24	4-02								
ORIG	DUP								
14.6	13.7	NA	NA		NA	NA	6	20	
ND	ND	NA	NA		NA	NA	NA	20	
59.4	55.7	NA	NA		NA	NA	7	20	
	08-24 ORIG 14.6 ND	14.6 13.7 ND ND	08-244-02 ORIG DUP 14.6 13.7 NA ND ND NA	08-244-02 ORIG DUP 14.6 13.7 NA NA ND ND NA NA	Result         Spike Level         Result           08-244-02	Result         Spike Level         Result         Recovery           08-244-02	ResultSpike LevelResultRecoveryLimits08-244-02ORIGDUP14.613.7NANANANDNDNANANA	ResultSpike LevelResultRecoveryLimitsRPD08-244-02ORIGDUP14.613.7NANANA6NDNDNANANANA	Result         Spike Level         Result         Recovery         Limits         RPD         Limit           08-244-02

# MATRIX SPIKES

Laboratory ID:	08-24	44-02									
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	102	104	100	100	14.6	87	89	75-125	2	20	
Cadmium	45.0	44.8	50.0	50.0	ND	90	90	75-125	0	20	
Lead	293	289	250	250	59.4	93	92	75-125	1	20	



Date of Report: August 23, 2023 Samples Submitted: August 22, 2023 Laboratory Reference: 2308-244 Project: 02-0019-C

## % MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SA-WSW-4-1.5	08-244-01	15	8-22-23
NA-ESW-9-1.5	08-244-02	16	8-22-23
NA-ESW-10-1.5	08-244-03	17	8-22-23
NA-ESW-11-1.5	08-244-04	16	8-22-23



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#### **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1 Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 Sample extract treated with a silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com	Chain of C Turnaround Request (in working days)	<b>UStody</b> Laboratory Number: 08 - 244	Page of
Company: Atlas <u>Geosciences</u> NW Project Number: 02-0019-C Project Name: <u>Special Interest</u> Auto Project Manager: <u>Lannia Smith</u> Chris Smith Sampled by: HVS Lab ID Sample Identification	(Check One) Same Day 1 Day 2 Days 3 Days Standard (7 Days) Cother) Date Time Sampled Sampled Matrix	NWTPH-Gx/BTEX (8021 8260 )) NWTPH-Gx NWTPH-Cax NWTPH-Dx (SG Clean-up )) Volatiles 8260 Halogenated Volatiles 8260 Halogenated Volatiles 8260 Halogenated Volatiles 8260 Halogenated Volatiles 8260 Construction (Nov-level) PAHs 8270/SIM (Iow-level) PCBs 8082 Organochlorine Pesticides 8081	Uniorimated Acid Herbicides 8151 Total RTCA Metals Total MTCA Metals HEM (oil and grease) 1664 HEM (oil and grease) 1664 <i>Lead</i> <i>Lead</i> <i>CadmidIM</i>
1 SA-WSW-4-1.5 2 NA-ESW-9-1.5 3 NA-ESW-10-1.5 4 NA-ESW-11-1.5	8/22/23 1035 Soil 1 8/22/23 1105 Soil 1 8/22/23 1105 Soil 2 8/22/23 1140 Soil 2 8/22/23 1150 Soil 2		
Signature	Company	Date Time Comments/Special Instruct	tions
Relinquished     Anuma box       Received       Relinquished       Relinquished       Relinquished       Received	Attas Geo NW	8/22/23 1310 Results by En 8/22/23 1310 otherwise * Prioritize Data Package: Standard	DOD <sup>8/172</sup> possible, Morning of 8/25 <u>ARSENIC for EOD</u>



December 4, 2023

Lannie Smith Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0014-D Laboratory Reference No. 2311-248

Dear Lannie:

Enclosed are the analytical results and associated quality control data for samples submitted on November 22, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Date of Report: December 4, 2023 Samples Submitted: November 22, 2023 Laboratory Reference: 2311-248 Project: 02-0014-D

### **Case Narrative**

Samples were collected on November 21, 2023 and received by the laboratory on November 22, 2023. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



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# DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx

Matrix: Water Units: ug/L (ppb)

onns. ug/L (ppb)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-1			•	•	V
Laboratory ID:	11-248-01					
Diesel Range Organics	ND	240	NWTPH-Dx	11-27-23	11-27-23	
Lube Oil Range Organics	ND	240	NWTPH-Dx	11-27-23	11-27-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	88	50-150				
Client ID:	MW-2					
Laboratory ID:	11-248-02					
Diesel Range Organics	220	130	NWTPH-Dx	11-27-23	12-1-23	
Lube Oil Range Organics	400	130	NWTPH-Dx	11-27-23	12-1-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	64	50-150				
Client ID:	MW-3					
Laboratory ID:	11-248-03					
Diesel Range Organics	ND	230	NWTPH-Dx	11-27-23	11-27-23	
Lube Oil Range Organics	ND	230	NWTPH-Dx	11-27-23	11-27-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	91	50-150				
Client ID:	MW-4					
Laboratory ID:	11-248-04					
Diesel Range Organics	ND	230	NWTPH-Dx	11-27-23	11-27-23	
Lube Oil Range Organics	ND	230	NWTPH-Dx	11-27-23	11-27-23	
Surrogate:		Controllingite				
Surroyale.	Percent Recovery	Control Limits				



Date of Report: December 4, 2023 Samples Submitted: November 22, 2023 Laboratory Reference: 2311-248 Project: 02-0014-D

#### DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1127W1					
Diesel Range Organics	ND	160	NWTPH-Dx	11-27-23	11-27-23	
Lube Oil Range Organics	ND	160	NWTPH-Dx	11-27-23	11-27-23	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	97	50-150				

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	11-24	12-01								
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	40	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	40	
Surrogate:										
o-Terphenyl						89 88	50-150			

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### **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
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- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical \_\_\_\_\_
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1 Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 Sample extract treated with a silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881



3600 Fremont Ave. N. Seattle, WA 98103 T: (206) 352-3790 F: (206) 352-7178 info@fremontanalytical.com

**OnSite Environmental Inc** David Baumeister 14648 NE 95th Street Redmond, WA 98052

RE: 11-248 Work Order Number: 2311475

December 01, 2023

# Attention David Baumeister:

Fremont Analytical, Inc. received 4 sample(s) on 11/28/2023 for the analyses presented in the following report.

# Dissolved Metals by EPA Method 200.8 Total Metals by EPA Method 200.8

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



CLIENT: Project: Work Order:	OnSite Environmental Inc 11-248 2311475	Work Order Sample Summ					
Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received				
2311475-001	MW-1	11/21/2023 3:30 PM	11/28/2023 4:30 PM				
2311475-002	MW-2	11/21/2023 2:00 PM	11/28/2023 4:30 PM				
2311475-003	MW-3	11/21/2023 12:41 PM	11/28/2023 4:30 PM				
2311475-004	MW-4	11/21/2023 11:07 AM	11/28/2023 4:30 PM				



**Case Narrative** 

WO#: **2311475** Date: **12/1/2023** 

CLIENT:OnSite Environmental IncProject:11-248

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

# II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

# **III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

# **Qualifiers & Acronyms**



WO#: 2311475 Date Reported: 12/1/2023

# Qualifiers:

- \* Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recoverv **CCB** - Continued Calibration Blank CCV - Continued Calibration Verification **DF** - Dilution Factor **DUP - Sample Duplicate** HEM - Hexane Extractable Material ICV - Initial Calibration Verification LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate MCL - Maximum Contaminant Level MB or MBLANK - Method Blank MDL - Method Detection Limit MS/MSD - Matrix Spike / Matrix Spike Duplicate PDS - Post Digestion Spike Ref Val - Reference Value **REP - Sample Replicate RL** - Reporting Limit **RPD** - Relative Percent Difference **SD** - Serial Dilution SGT - Silica Gel Treatment SPK - Spike

Surr - Surrogate



# **Analytical Report**

Work Order:	2311475
Date Reported:	12/1/2023

# CLIENT: OnSite Environmental Inc

**Project:** 11-248

Lab ID: 2311475-001 Client Sample ID: MW-1	Collection Matrix: V		11/21/2023 3:30:00 PM		
Analyses	Result	PQL Qual	Units	DF	Date Analyzed
Dissolved Metals by EPA Method	200.8		Batcl	n ID: 42	2192 Analyst: JR
Arsenic	2.09	0.500	µg/L	1	12/1/2023 1:35:00 PM
Cadmium	ND	0.100	µg/L	1	12/1/2023 1:35:00 PM
Lead	ND	0.500	µg/L	1	12/1/2023 1:35:00 PM
Total Metals by EPA Method 200.	.8		Batc	n ID: 42	2175 Analyst: JR
Arsenic	2.08	0.500	µg/L	1	11/30/2023 3:23:00 PM
Cadmium	ND	0.100	µg/L	1	11/30/2023 3:23:00 PM
Lead	ND	0.500	µg/L	1	11/30/2023 3:23:00 PM

# Lab ID: 2311475-002

# Client Sample ID: MW-2

# Collection Date: 11/21/2023 2:00:00 PM Matrix: Water

Analyses	Result	PQL Qual	Units	DF	Date Analyzed
Dissolved Metals by EPA N	lethod 200.8		Batcl	h ID: 42	2192 Analyst: JR
Arsenic	3.13	0.500	µg/L	1	12/1/2023 1:25:00 PM
Cadmium	ND	0.100	µg/L	12/1/2023 1:25:00 PM	
Lead	ND	0.500	µg/L	1	12/1/2023 1:25:00 PM
Total Metals by EPA Metho	<u>od 200.8</u>		Batcl	h ID: 42	2175 Analyst: JR
Arsenic	2.95	0.500	µg/L	1	11/30/2023 3:25:00 PM
Cadmium	ND	0.100	µg/L	1	11/30/2023 3:25:00 PM
Lead	ND	0.500	µg/L	1	11/30/2023 3:25:00 PM



# **Analytical Report**

Work Order:	2311475
Date Reported:	12/1/2023

# CLIENT: OnSite Environmental Inc

**Project:** 11-248

Lab ID: 2311475-003 Client Sample ID: MW-3		Collection Date: 11/21/2023 12:41:00 Pl Matrix: Water					
Analyses	Result	PQL Qual	Units	DF	Date Analyzed		
Dissolved Metals by EPA Meth	od 200.8		Batc	h ID: 42	192 Analyst: JR		
Arsenic	0.902	0.500	µg/L	1	12/1/2023 1:37:00 PM		
Cadmium	ND	0.100	µg/L	1	12/1/2023 1:37:00 PM		
Lead	ND	0.500	µg/L	1	12/1/2023 1:37:00 PM		
Total Metals by EPA Method 2	<u>00.8</u>		Batc	h ID: 42	175 Analyst: JR		
Arsenic	0.987	0.500	µg/L	1	11/30/2023 3:27:00 PM		
Cadmium	ND	0.100	µg/L	1	11/30/2023 3:27:00 PM		
Lead	ND	0.500	µg/L	1	11/30/2023 3:27:00 PM		

# Lab ID: 2311475-004

# Client Sample ID: MW-4

# Collection Date: 11/21/2023 11:07:00 AM Matrix: Water

Analyses	Result	PQL Qual	Units	DF	Date Analyzed
Dissolved Metals by EP	A Method 200.8		Batc	h ID: 42	Analyst: JR
Arsenic	2.68	0.500	µg/L	1	12/1/2023 1:40:00 PM
Cadmium	ND	0.100	µg/L	1	12/1/2023 1:40:00 PM
Lead	ND	0.500	µg/L	1	12/1/2023 1:40:00 PM
Total Metals by EPA Me	ethod 200.8		Batc	h ID: 42	Analyst: JR
Arsenic	2.56	0.500	µg/L	1	11/30/2023 3:30:00 PM
Cadmium	ND	0.100	µg/L	1	11/30/2023 3:30:00 PM
Lead	ND	0.500	µg/L	1	11/30/2023 3:30:00 PM



Work Order:         2311475           CLIENT:         OnSite Env           Project:         11-248	ironmental Inc						Dis	QC S solved Met	SUMMAI		
Sample ID: MB-42192	SampType: MBLK			Units: µg/L		Prep Dat	e: 11/30/2	2023	RunNo: 880	)87	
Client ID: MBLKW	Batch ID: 42192					Analysis Dat	e: 12/1/20	23	SeqNo: 183	88967	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.500									
Cadmium	ND	0.100									
Lead	ND	0.500									
Sample ID: LCS-42192	SampType: LCS			Units: µg/L		Prep Dat	e: 11/30/2	2023	RunNo: 880	)87	
Client ID: LCSW	Batch ID: 42192					Analysis Dat	e: <b>12/1/20</b>	23	SeqNo: 183	38968	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	102	0.500	100.0	0	102	85	115				
Cadmium	5.22	0.100	5.000	0	104	85	115				
Lead	52.7	0.500	50.00	0	105	85	115				
Sample ID: 2311475-002BDUP	SampType: DUP			Units: µg/L		Prep Dat	e: 11/30/2	2023	RunNo: 880	)87	
Client ID: MW-2	Batch ID: 42192					Analysis Dat	e: <b>12/1/20</b>	)23	SeqNo: 183	88970	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	3.06	0.500						3.126	2.10	30	
Cadmium	ND	0.100						0		30	
Lead	ND	0.500						0		30	
Sample ID: 2311475-002BMS	SampType: <b>MS</b>			Units: µg/L		Prep Dat	e: 11/30/2	2023	RunNo: 880	087	
Client ID: MW-2	Batch ID: 42192					Analysis Dat	e: 12/1/20	23	SeqNo: 183	88971	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	112	0.500	100.0	3.126	108	70	130				
Cadmium	5.28	0.100	5.000	0.02400	105	70	130				
Lead	53.8	0.500	50.00	0.09300	107	70	130				



#### Work Order: 2311475

Project:

CLIENT: OnSite Environmental Inc 11-248

# QC SUMMARY REPORT

**Dissolved Metals by EPA Method 200.8** 

Sample ID: 2311475-002BMSD	SampType: MSD			Units: µg/L		Prep Da	te: 11/30/2	2023	RunNo: 880	)87	
Client ID: MW-2	Batch ID: 42192					Analysis Da	te: 12/1/20	)23	SeqNo: 183	88972	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	106	0.500	100.0	3.126	103	70	130	111.6	4.88	30	
Cadmium	5.14	0.100	5.000	0.02400	102	70	130	5.278	2.71	30	
Lead	49.7	0.500	50.00	0.09300	99.3	70	130	53.76	7.77	30	



CLIENT:	2311475 OnSite Envi 11-248	ironmental Inc							QC S Total Met	SUMMAI		
Sample ID: MB-421 Client ID: MBLKW		SampType: <b>MBLK</b> Batch ID: <b>42175</b>			Units: <b>µg/L</b>		Prep Da Analysis Da	te: 11/29/2 te: 11/30/2		RunNo: 880 SeqNo: 183		
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic Cadmium Lead		ND ND ND	0.500 0.100 0.500									
Sample ID: LCS-42	175	SampType: LCS			Units: µg/L		Prep Da	te: 11/29/2	2023	RunNo: 880	)58	
Client ID: LCSW		Batch ID: 42175					Analysis Date: 11/30/2023		2023	SeqNo: 1838382		
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		101	0.500	100.0	0	101	85	115				
Cadmium		5.12	0.100	5.000	0	102	85	115				
Lead		52.2	0.500	50.00	0	104	85	115				
Sample ID: 2311400	0-001EDUP	SampType: <b>DUP</b>			Units: µg/L		Prep Da	te: 11/29/2	2023	RunNo: 88058		
Client ID: BATCH		Batch ID: 42175					Analysis Da	te: 11/30/2	2023	SeqNo: 18:	38384	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		1.37	0.500						1.400	2.39	30	
Cadmium		ND	0.100						0		30	
Lead		ND	0.500						0		30	
Sample ID: 2311400	0-001EMS	SampType: <b>MS</b>			Units: µg/L		Prep Da	te: 11/29/2	2023	RunNo: 880	)58	
Client ID: BATCH		Batch ID: 42175					Analysis Da	te: 11/30/2	2023	SeqNo: 183	88385	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		105	0.500	100.0	1.400	104	70	130				
Cadmium		5.15	0.100	5.000	0.02200	103	70	130				
Lead		54.9	0.500	50.00	0.3530	109	70	130				



#### Work Order: 2311475

Project:

CLIENT: OnSite Environmental Inc 11-248

# QC SUMMARY REPORT

Total Metals by EPA Method 200.8

Sample ID: 2311483-001CMS	SampType: <b>MS</b>			Units: µg/L		Prep Da	te: 11/29/2	2023	RunNo: 880	)58	
Client ID: BATCH	Batch ID: 42175					Analysis Da	te: 11/30/2	2023	SeqNo: 183	88400	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	114	0.500	100.0	12.99	101	70	130				
Cadmium	5.57	0.100	5.000	0.2590	106	70	130				
Lead	98.0	0.500	50.00	44.96	106	70	130				



# Sample Log-In Check List

Client Name: ONSITE	Work Order Numl	ber: 2311475	
Logged by: Morgan Wilson	Date Received:	11/28/202	23 4:30:00 PM
Chain of Custody			
1. Is Chain of Custody complete?	Yes 🖌	No 🗌	Not Present
2. How was the sample delivered?	<u>Client</u>		
Log In			
<ol> <li>Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)</li> </ol>	Yes	No 🗌	Not Present
4. Was an attempt made to cool the samples?	Yes 🔽	No 🗌	
5. Were all items received at a temperature of $>2^{\circ}C$ to $6^{\circ}C$ *	Yes 🖌	No 🗌	
6. Sample(s) in proper container(s)?	Yes 🖌	No 🗌	
<ol><li>Sufficient sample volume for indicated test(s)?</li></ol>	Yes 🖌	No 🗌	
8. Are samples properly preserved?	Yes 🗹	No 🗌	
9. Was preservative added to bottles?	Yes	No 🗹	NA 🗌
10. Is there headspace in the VOA vials?	Yes	No 🗌	NA 🔽
11. Did all samples containers arrive in good condition(unbroken)?	Yes 🖌	No 🗌	
12. Does paperwork match bottle labels?	Yes 🖌	No 🗌	
13. Are matrices correctly identified on Chain of Custody?	Yes 🖌	No 🗌	
14. Is it clear what analyses were requested?	Yes 🖌	No 🗌	
15. Were all hold times (except field parameters, pH e.g.) able to be met?	Yes 🖌	No 🗌	
<u>Special Handling (if applicable)</u>			
16. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹
Person Notified: Date	:		
By Whom: Via:	eMail Pl	none 🗌 Fax	In Person
Regarding:			
Client Instructions:			
17. Additional remarks:			

## Item Information

Item #	Temp ⁰C
Sample	1.6

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 - (425) 883-3881

Laboratory: Fremont Analytical

Attention: Chelsea Ward

3600 Fremont Avenue N, Seattle, WA 98103

Phone Number: (206) 352-3790

Turr	naround Rec	quest
1 Day	2 Day	3 Day
	Standard	
Other:	Results by	/ 12/1

231	1475	e 12 o
Laboratory Reference #:	11-248	Page
Project Manager:	David Baumeister	
email:	dbaumeister@onsite-env.com	
Project Number:	02-0019-D	
Project Name:		

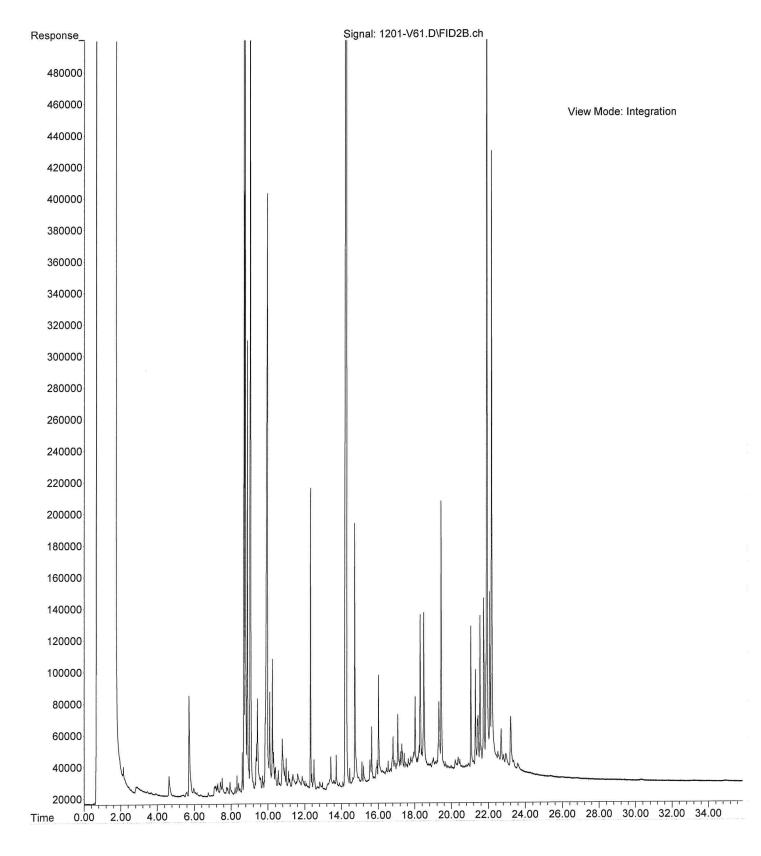
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses				
	MW-1	11/21/23	15:30	W	2	Total and Dissolved As, Cd, by Pb EPA 200.8				
	MW-2	11/21/23	14:00	W	2	Total and Dissolved As, Cd, by Pb EPA 200.8				
	MW-3	11/21/23	12:41	W	2	Total and Dissolved As, Cd, by Pb EPA 200.8				
	MW-4	11/21/23	11:07	W	2	Total and Dissolved As, Cd, by Pb EPA 200.8				
	i)					REPORT IN PPB				
	Signature	. Com	pany	1 2 1 2 1 2	Date	Time Comments/Special Instructions				
Receive Relinqu	ished by: Celia Forreste	SPER II FAI	M		11/28/23 1/28/23 1/28/23 11/28/23					
Receive	ished by:	FAL			11/28/22					
Receive	ed by:									

OnSite Environmental Inc.			ain o	) <b>f</b> (	Cu	Ist	00	ly									Pa	ige		_ of	]	_	
Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052		naround Requ n working day			L	abo	rato	ory	Num	oer:			24	. 8							C.		
Company: A Has GeosCiences NW Project Number: O2-OOI 4-D Project Name: Special Interest Project Mahager: Lab ID Sample Identification 1 MW-1 2 MW-2 3 MW-3	□ Same □ 2 Day □ 2 Day □ □ Date Sampled	(Check One) a Day [ /s [ dard (7 Days) (other) Time Sampled 1530 1400	1 Day 3 Days Matrix	A Number of Containers	NWTPH-HCID	/BTEX (8021[] 8260[])		G Clean-up [])	Volatiles 8260     Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)		rine Pesticides 8081	WIS/0/	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	CO I	10	S	A LEad Jotal 4Diss	% Moisture
4 MW-4	4	1241											-		- N								
Relinquished Name Relinquished Van Market Received Name Relinquished Van Market Relinquished Van Market		ompany Atlas	Jy Sply			11/2	22-7 22-7	23	Time O63 0919	5		ments,					5+71	es	M			,	
Received Relinquished	5	C	LHE.	>		lil	je	v	In	Ð	-												
Received											Data	Packa	ige: S	tanda	ird 🗌	Lev	vel III		Level	IV 🗆			
Reviewed/Date		Reviewed/Da	te								Chro	matog	rams v	vith fir	nal rep	oort 🗌	Ele	ctronic	c Data	Delive	arables	; (EDD	(s) 🗌

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File :C:\msdchem\2\data\V231201.SEC\1201-V61.D
Operator : LW
Acquired : 1 Dec 2023 16:00 using AcqMethod V230830F.M
Instrument : Vigo
Sample Name: 11-248-02 40-0.5
Misc Info : RearSamp
Vial Number: 61





April 9, 2024

Lannie Smith Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0019-C Laboratory Reference No. 2404-012

Dear Lannie:

Enclosed are the analytical results and associated quality control data for samples submitted on April 1, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Date of Report: April 9, 2024 Samples Submitted: April 1, 2024 Laboratory Reference: 2404-012 Project: 02-0019-C

#### **Case Narrative**

Samples were collected on March 29, 2024 and received by the laboratory on April 1, 2024. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

# DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-3					
Laboratory ID:	04-012-01					
Diesel Range Organics	ND	200	NWTPH-Dx	4-3-24	4-3-24	
Lube Oil Range Organics	ND	200	NWTPH-Dx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	75	50-150				
Client ID:	MW-4					
Laboratory ID:	04-012-02					
Diesel Range Organics	ND	200	NWTPH-Dx	4-3-24	4-4-24	
Lube Oil Range Organics	ND	200	NWTPH-Dx	4-3-24	4-4-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	106	50-150				
Client ID:	MW-1					
Laboratory ID:	04-012-03					
Diesel Range Organics	ND	210	NWTPH-Dx	4-3-24	4-4-24	
Lube Oil Range Organics	ND	210	NWTPH-Dx	4-3-24	4-4-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	104	50-150				
Client ID:	MW-2					
Laboratory ID:	04-012-04					
Diesel Range Organics	ND	210	NWTPH-Dx	4-3-24	4-4-24	
Lube Oil Range Organics	ND	210	NWTPH-Dx	4-3-24	4-4-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	89	50-150				



## DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

0 (11 )				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0403W1					
Diesel Range Organics	ND	160	NWTPH-Dx	4-3-24	4-3-24	
Lube Oil Range Organics	ND	160	NWTPH-Dx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	90	50-150				

				Source	Perc	cent	Recovery		RPD	
Res	sult	Spike	Level	Result	Reco	overy	Limits	RPD	Limit	Flags
SB04	03W1									
ORIG	DUP									
466	400	NA	NA		Ν	A	NA	15	40	
					81	83	50-150			
	SB04 ORIG		SB0403W1 ORIG DUP	SB0403W1 ORIG DUP	Result     Spike Level     Result       SB0403W1     ORIG     DUP	ResultSpike LevelResultRecoSB0403W1ORIGDUP466400NANA	ResultSpike LevelResultRecoverySB0403W1ORIGDUP466400NANA	ResultSpike LevelResultRecoveryLimitsSB0403W1ORIGDUP466400NANANA	ResultSpike LevelResultRecoveryLimitsRPDSB0403W1ORIGDUP466400NANANA15	ResultSpike LevelResultRecoveryLimitsRPDLimitSB0403W1ORIGDUP466400NANANA1540



#### TOTAL METALS EPA 200.8

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-3					
Laboratory ID:	04-012-01					
Arsenic	ND	3.3	EPA 200.8	4-4-24	4-4-24	
Cadmium	ND	4.4	EPA 200.8	4-4-24	4-4-24	
Lead	ND	1.1	EPA 200.8	4-4-24	4-4-24	
Client ID:	MW-4					
Laboratory ID:	04-012-02					
Arsenic	3.5	3.3	EPA 200.8	4-4-24	4-4-24	
Cadmium	ND	4.4	EPA 200.8	4-4-24	4-4-24	
Lead	ND	1.1	EPA 200.8	4-4-24	4-4-24	
Client ID:	MW-1					
Laboratory ID:	04-012-03					
Arsenic	ND	3.3	EPA 200.8	4-4-24	4-4-24	
Cadmium	ND	4.4	EPA 200.8	4-4-24	4-4-24	
Lead	ND	1.1	EPA 200.8	4-4-24	4-4-24	
Client ID:	MW-2					
Laboratory ID:	04-012-04					
Arsenic	ND	3.3	EPA 200.8	4-4-24	4-4-24	
Cadmium	ND	4.4	EPA 200.8	4-4-24	4-4-24	
Lead	ND	1.1	EPA 200.8	4-4-24	4-4-24	



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#### TOTAL METALS EPA 200.8 QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0404WM1					
Arsenic	ND	3.3	EPA 200.8	4-4-24	4-4-24	
Cadmium	ND	4.4	EPA 200.8	4-4-24	4-4-24	
Lead	ND	1.1	EPA 200.8	4-4-24	4-4-24	

				Source	Percent	Recovery		RPD	
Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
03-09	95-06								
ORIG	DUP								
ND	ND	NA	NA		NA	NA	NA	20	
ND	ND	NA	NA		NA	NA	NA	20	
ND	ND	NA	NA		NA	NA	NA	20	
	03-09 ORIG ND ND	ND ND ND ND	03-095-06 ORIG DUP <b>ND ND</b> NA <b>ND ND</b> NA	03-095-06 ORIG DUP <b>ND ND</b> NA NA <b>ND ND</b> NA NA	Result         Spike Level         Result           03-095-06             ORIG         DUP             ND         ND         NA         NA           ND         ND         NA         NA	Result         Spike Level         Result         Recovery           03-095-06         -	ResultSpike LevelResultRecoveryLimits03-095-06	ResultSpike LevelResultRecoveryLimitsRPD03-095-06ORIGDUPNDNDNANANANANDNDNANANANANDNDNANANANA	Result         Spike Level         Result         Recovery         Limits         RPD         Limit           03-095-06

# MATRIX SPIKES

Laboratory ID:	03-0	95-06									
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	110	106	111	111	ND	100	95	75-125	5	20	
Cadmium	111	108	111	111	ND	100	97	75-125	3	20	
Lead	114	109	111	111	ND	103	98	75-125	5	20	



## DISSOLVED METALS EPA 200.8

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-3					
Laboratory ID:	04-012-01					
Arsenic	ND	3.0	EPA 200.8		4-4-24	
Cadmium	ND	4.0	EPA 200.8		4-4-24	
Lead	ND	1.0	EPA 200.8		4-4-24	
Client ID:	MW-4					
Laboratory ID:	04-012-02					
Arsenic	ND	3.0	EPA 200.8		4-4-24	
Cadmium	ND	4.0	EPA 200.8		4-4-24	
Lead	ND	1.0	EPA 200.8		4-4-24	
Client ID:	MW-1					
Laboratory ID:	04-012-03					
Arsenic	ND	3.0	EPA 200.8		4-4-24	
Cadmium	ND	4.0	EPA 200.8		4-4-24	
Lead	ND	1.0	EPA 200.8		4-4-24	
Client ID:	MW-2					
Laboratory ID:	04-012-04					
Arsenic	ND	3.0	EPA 200.8		4-4-24	
Cadmium	ND	4.0	EPA 200.8		4-4-24	
Lead	ND	1.0	EPA 200.8		4-4-24	



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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### DISSOLVED METALS EPA 200.8 QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0404D1					
Arsenic	ND	3.0	EPA 200.8		4-4-24	
Cadmium	ND	4.0	EPA 200.8		4-4-24	
Lead	ND	1.0	EPA 200.8		4-4-24	

					Source	Percent	Recovery		RPD	
Analyte	Result		Spike Level		Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	04-01	12-04								
	ORIG	DUP								
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	

# MATRIX SPIKES

Laboratory ID:	04-0	12-04									
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	80.6	78.6	80.0	80.0	ND	101	98	75-125	3	20	
Cadmium	73.0	72.0	80.0	80.0	ND	91	90	75-125	1	20	
Lead	71.6	71.0	80.0	80.0	ND	90	89	75-125	1	20	





### **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical \_\_\_\_\_
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1 Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 Sample extract treated with a silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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OnSite Environmental Inc. Analytical Laboratory Testing Services	Environmental Inc.														Page of									
14648 NE 95th Street * Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com Company: <u>A Hus Geosciences NW</u> Project Number: <u>62 - Bol9 - C</u> Project Name: <u>Former Special Interest Auto Wrecking</u> Project Manager: <u>Lannie Smith</u> Sampled by: <u>Paul Hitch</u>	Same	(Check One) Day		Number of Containers		3TEX (8021[] 8260[])		G Clean-up [])				Semivolatiles 8270/SIM (with low-level PAHs)		na Pasticidas 8081		Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	tals	HEM (oil and grease) 1664	As, Belch, Pb	Diffelved As, CJ, Pb		e
Lab ID Sample Identification	Date Sampled	Time Sampled	Matrix	Number	NWTPH-HCID	WTPH	NWTPH-Gx	<b>WTPH</b>	Volatiles 8260	lalogen	EDB EP	Semivol: with low	PAHs 8270/S		Drganop	Chlorina	fotal RC	fotal MT	TCLP Metals	HEM (oil	Total	0:5%		% Moisture
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