

ATLAS GEOSCIENCES NW

July 3, 2025 Project Number 02-0266-A

Ms. Kae Lee Oklee Development LLC 1624 Bellevue Way Southeast Bellevue, Washington 98004

klee@okleedevelopment.com

Subject: Data Gap Investigation

Bellevue Way Cleaners/Unocal 4384

1624 Bellevue Way Southeast

Bellevue, Washington Cleanup Site ID: 5107 Facility Site ID: 2458

Dear Ms. Lee:

Atlas Geosciences NW, LLC (Atlas) is pleased to provide Oklee Development LLC (Client) with this report presenting the results of our Data Gap Investigation (Phase II) at the Unocal 4384 property at 1624 Bellevue Way Southeast in Bellevue, Washington (subject property). The subject property consists of one parcel totaling approximately 1.09 acres improved with a gravel and asphalt parking lot (King County tax parcel number 532610-0075). The purpose of this subsurface investigation was to resolve data gaps associated with previous subsurface investigations and cleanup activities that were performed at the subject property by others between 1990 and 1995.

This investigation was performed concurrently with a Supplemental Phase II Subsurface Investigation at the north-adjoining Kevik Cleaners property addressed 1606 and 1614 Bellevue Way Southeast in Bellevue, Washington (Cleanup Site ID: 2983, Facility Site ID: 2457). The methods and findings discussed herein are focused on the release(s) previously identified on the former Unocal 4384 facility and the parcel on which it is situated, and the portions of the investigation not associated with the former fueling facility release(s) are not discussed in this report. An expanded discussion of the results for the subsurface investigation at north-adjoining Kevik Cleaners property beyond the data presented in this report will be presented under a separate cover.

The location of the subject property relative to the surrounding region is shown on Figure 1. Relevant subject property features are included on Figure 2.

1.0 BACKGROUND

The subject property was historically occupied by a gasoline service station (Unocal station 4384) from 1957 to 1994. The original first-generation gas station included 4,000-

gallon, 5,000-gallon and 6,000-gallon gasoline underground storage tanks (USTs), a 350-gallon heating oil UST, and a 280-gallon waste oil UST. In 1971, three 10,000-gallon heating oil USTs and a loading rack were installed on the east-central portion of subject property, at the base of the embankment located along its eastern boundary. In 1979, the original gasoline USTs were replaced with the second-generation station including three 10,000-gallon gasoline USTs. In 1983, the facility was redeveloped with the third-generation station, at which time some of the first- and second-generation station improvements were removed and replaced with a new UST system and an associated oil-water separator. Some of the third-generation station improvements were removed in 1992 and some additional third-generation improvements were removed in 1994.

Various subsurface investigations performed between August 1990 and July 1995 identified petroleum-contaminated soils (PCS) on the southern portion of the subject property. At least approximately 1,054 tons of PCS were excavated and removed from the former heating oil UST area in the east-central portion of the subject property; however, excavation activities were halted along its eastern boundary so as not to compromise the embankment, leaving PCS approximately 10 to 30 feet below ground surface (bgs) along eastern portion of the subject property. During groundwater monitoring performed from April 1993 to July 1995, gasoline, diesel or oil-range total petroleum hydrocarbons (TPH) and/or benzene, toluene, ethylbenzene, and xylene (BTEX) concentrations were identified to be below their current applicable cleanup levels. In 2009, a 1,000-gallon waste oil UST, hoists and a sump were removed from this portion of the subject property, and impacts to soil were not identified in the soil confirmation samples collected at the time.

In 2023, a boring (B4) was advanced by others to 25 feet bgs at the location of the remaining PCS at the eastern portion of the subject property. The soil sample submitted for laboratory analysis collect at 20 feet bgs from boring B4 did not have concentrations of gasoline, diesel or oil-range TPH above laboratory report limits. However, regulatory closure has not yet been achieved for the previously identified impacts, and Atlas has identified perceived data gaps associated with the previous environmental investigation and remedial action performed in association with this former on-property gasoline service station. Specific perceived data gaps identified included the following:

- Absence of TPH data related to the pump islands associated with a former onproperty UST system on the west-central portion of the subject property.
- Absence of analysis for BTEX associated with former on-property pump islands on the southern portion of the former gas station property.
- The diesel-range TPH data associated with the remedial excavation for the former on-property heating oil USTs did not appear to extend to a depth adequate to assess the vertical extent of the residual petroleum in soils, if any.
- The soil confirmation samples associated with a former on-property sump were analyzed for Resource Conservation and Recovery Act metals using the Toxicity Characteristic Leaching Procedure, rather than total metals analyses.

The soils in the vicinity of the oil-water separator associated with the most recent on-property former UST system were not assessed for the presence of gasolinerange TPH or BTEX, despite its association with the retail gasoline fueling operations.

The locations of the previous borings are shown in Figure 2.

Pursuant to Client request, Atlas performed this additional investigation to address the perceived data gaps associated with the previous investigations and remediation at the former gasoline service station on the subject property and inform potential soil handling requirements associated with future development of the subject property.

2.0 SUBSURFACE INVESTIGATION

For this subsurface investigation, Atlas completed soil borings and monitoring well installation with soil and groundwater sampling at the subject property. The purpose of this investigation was to resolve perceived data gaps associated with previous subsurface investigations performed at the former gasoline service station. Figure 2 shows the approximate locations of the soil borings, monitoring wells, and relevant subject property features.

2.1 Soil Borings and Monitoring Well Installation

Between November 18 and 22, 2024, and on February 10, 2025, Atlas oversaw the advancement of 11 soil borings (GMW8 through GMW11, GMW13, and B6 through B11) in the vicinity of the former a gasoline service station on the subject property to a maximum depth of 65 feet bgs. Five of the soil borings were completed as permanent monitoring wells (GMW8 through GMW11 and GMW13). The soil borings were drilled using a direct push rig and monitoring wells were drilled using a sonic drilling rig. The locations of the soil borings and monitoring wells are shown on Figure 2. During the drilling of the soil borings and monitoring wells, soil intervals were recovered for observations, screening, and sample collection as described in Section 2.1.1.

Monitoring well construction was completed in accordance with Chapter 173-160 Washington Administrative Code (WAC) *Minimum Standards for Construction and Maintenance of Wells*. Each monitoring well was 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 was packed in the annular space 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.

Monitoring well construction details are provided in the monitoring well logs included in Appendix A. The newly installed monitoring wells (GMW8 through GMW11 and GMW13) were subsequently developed by pumping groundwater using a submersible pump and associated plastic tubing to remove sediment from the well and filter pack and ensure adequate hydraulic communication with the surrounding formation. At least ten well casing volumes of groundwater were removed during development of each well. Groundwater sampling was completed at the wells at least 48 hours after the wells were developed to allow well and formation conditions to equilibrate. The top of casing elevations were measured in the field with a self-leveling tripod unit and accompanying stadia rod. Groundwater sampling details are described in Sections 2.1.2 and 2.1.3.

2.1.1 Soil Sample Collection

Soil samples from the soil borings and monitoring wells were screened in the field with a portable photoionization detector (PID) with an 11.7 electron volt lamp to qualitatively assess for the presence of organic vapors and for general evidence of potential presence of contaminants by visual and incidental olfactory observation. Soil samples were placed in laboratory-prepared containers for analysis. Soil samples intended for analysis of volatile organic compounds (VOCs) were collected using the United States Environmental Protection Agency (USEPA) Method 5035A sampling method. Field screening observations are included on the boring logs in Appendix A and discussed in Section 3.2, below.

2.1.2 Groundwater Grab Sample Collection

On November 20, 2024, Atlas collected a groundwater grab sample from soil boring location B11, which was located on the subject property parcel but approximately 100 feet cross-gradient of the former Unocal operations. The groundwater sampling procedure consisted of inserting a temporary 5-foot PVC well screen at the bottom of the boring with a temporary PVC riser to the ground surface. Dedicated disposable plastic tubing and a submersible pump were used to withdraw water from the well screen. The pump was run for approximately 15 minutes to clear the majority of the turbidity from the water flow. The groundwater gab sample was collected into laboratory-prepared sample containers after the development period. The tubing was then removed and disposed of properly.

2.1.3 Groundwater Monitoring Well Sample Collection

On December 2 through 4, 2024 and February 13, 2025, Atlas collected groundwater samples from monitoring wells GMW8 through GMW11, and GMW13. The wells were sampled using low-flow methods with the following procedures:

- The monitoring well plug 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 bladder pump. Groundwater quality parameters including temperature, electrical conductivity (EC), pH, turbidity, dissolved oxygen (DO), and oxidation-

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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/or ORP were observed within the applicable, acceptable range for each parameter in accordance with the method, or when three times the volume of a given well had been purged. 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 into laboratory-prepared containers for laboratory analysis.

2.2 Sample Management and Analysis

Samples collected for chemical analysis were placed in appropriate sample containers supplied by the laboratory subcontracted by Atlas. Each container was labeled with the project number, subject property name, date, time, sample number, and sampling personnel. Sample containers were placed in a chilled cooler immediately after sampling, and subsequently transported to OnSite Environmental, Inc. (OnSite), of Redmond, Washington, an analytical laboratory accredited by the Washington State Department of Ecology, via courier following strict chain-of-custody procedures. Chain-of-custody documentation for the samples is included in the analytical laboratory reports in Appendix B.

OnSite completed each analysis for the soil and groundwater samples reported for this investigation. The discrete soil samples, exhibiting the highest or most suspect field indication of adverse impacts or corresponding to a targeted depth of interest, and groundwater grab and monitoring well samples were submitted for one or more of the contaminants of concern (COCs) using the following analyses:

- Gasoline-range TPH by Northwest Method NWTPH-Gx.
- Diesel- and oil-range TPH by Northwest Method NWTPH-Dx.
- BTEX by USEPA Method 8021B.
- Resource Conservation and Recovery Act metals (including arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) using USEPA 6000 and 7000 series methods.

Additionally, soil and groundwater samples were submitted for the following analyses as a part of the investigation for the north-adjoining Kevik Cleaners property. These analytes are not considered COCs for the former Unocal facility:

Tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene, 1,1-dichloroethene, vinyl chloride (VC) and 1,1,2-trichloroethane by USEPA Method 8260D.

The soil and groundwater sample results are discussed in Sections 3.3.1 and 3.3.2, respectively.

3.0 SUBSURFACE INVESTIGATION RESULTS

3.1 Subsurface Conditions

Subsurface conditions at the subject property were inferred from observations made during the borings advanced at the subject property for this and previous investigations. Subsurface conditions generally consisted of loose to dense silty sand (SM) and sandy silt (ML) with varying amounts of gravel and intermittent sand lenses to the maximum depth explored of 65 feet bgs. The soil profile at the site is interpreted as glacial till overlying advance outwash deposits.

Depth to groundwater measured in the monitoring wells at the subject property and ranges from about 30 to 37 feet bgs. Groundwater level measurements and calculated groundwater elevations are included in Table 3. Groundwater elevation contours developed from the groundwater elevation data are shown on Figure 3. Groundwater at the subject property generally from east to west based on interpretation of depth to groundwater and top of well casing elevations measured at each monitoring well. Evidence of groundwater in the upper 30 feet of soil at the subject property was not observed during this most recent investigation drilling effort.

3.2 Field Screening Observations

For the soil borings where field screening was conducted, PID readings generally ranged from 0.0 to 12.2 volumetric parts per million (vppm), except for in GMW13. A sweet solvent odor and elevated PID readings were observed up to 2,000 vppm in boring GMW13 from depths of 20 to 40 feet bgs, which are attributed to the north-adjoining Kevik Cleaners (see discussion in Section 3.3.1 below). Additionally, a slight petroleum odor was noted in boring GMW10 at 11 feet bgs, and a slight non-descript odor was also noted in the boring at a depth of 31.5 feet bgs. Other suspect staining or odors were not observed in soil borings. PID readings and observations pertaining to staining and/or odors are noted on the boring and monitoring well logs included Appendix A.

3.3 Laboratory Analytical Results

The soil and groundwater analytical results are summarized in Table 1 and 2, respectively. The associated laboratory analytical reports are included in Appendix B and the analytical results are discussed in detail below.

3.3.1 Soil Analytical Results

COCs and PCE and its breakdown products were either not detected or were below the Model Toxics Control Act (MTCA) Method A Soil Cleanup Level for Unrestricted Land Uses in the soil samples collected from the subject property, except for soil sample GMW13-22. Gasoline-range TPH was detected at 3,400 milligrams per kilogram (mg/kg) in soil sample GMW13-22, above the MTCA cleanup level. Based on the review of the chromatograms, the laboratory analyst stated that this product appears to be mineral

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spirits opposed to actual gasoline product. Soil sample GMW13-22 was collected from soil boring GMW13 at 22 feet bgs. Soil boring location GMW13 is located south of the north-adjoining dry cleaners and 150 feet north and hydraulically cross-gradient relative to the former gasoline service station at the subject property. Given that the COC detected is commonly used as a dry cleaning solvent, the distance from the former gasoline service station (over 60 feet), the fact that it was not detected in the samples collected from the former gasoline station property, and hydraulic positioning relative to the former gasoline service station (cross-gradient), the source of the gasoline-TPH/mineral spirits soil exceedance in soil sample GMW13-22 appears to be the north-adjoining, off-property Kevik Cleaners operations and not the former gasoline service station at the subject property.

3.3.2 Groundwater Analytical Results

Gasoline-, diesel-, and oil-range TPH were either not detected or were below the MTCA Method A Cleanup Levels for Groundwater in the groundwater grab sample and monitoring well groundwater samples collected from the subject property.

Furthermore, gasoline-range TPH detections in groundwater samples GMW10 and B11 were also flagged with a "Z" by the analytical laboratory, indicating that the "gasoline result is attributed to a single peak (Tetrachloroethene)." Therefore, the elevated gasoline-range TPH appears to be overlap from PCE detected in these groundwater samples and associated with the north-adjoining Kevik Cleaners property.

PCE was detected in all groundwater samples above laboratory reporting limits except for groundwater sample GMW9. The groundwater sample collected from GMW11 detected PCE at 1.3 micrograms per liter (μ g/L), below the MTCA Method A Groundwater Cleanup Level of 5 μ g/L. Detections of PCE ranged from 150 to 270 μ g/L in the remaining groundwater samples, each of which is greater than the MTCA Method A cleanup level. In addition, TCE was detected in groundwater sample GMW8 at 1.2 μ g/L, below the MTCA Method A Groundwater Cleanup Level of 5 μ g/L. TCE was not detected in the remaining groundwater samples collected from the subject property. No other PCE breakdown products were detected above laboratory reporting limits.

Acknowledging that PCE and TCE are commonly associated with dry cleaning operations as well as the fact PCE-affected groundwater has been identified at similar concentrations on the north-adjoining property, the source of the gasoline-range TPH, PCE and TCE groundwater detections appears to be the north-adjoining Kevik Cleaners property rather than the former gasoline service station at the subject property. The results and findings associated with the north-adjoining Kevik Cleaners property are discussed in further detail under separate cover.

3.3.3 Development Considerations

Aside from compliance with the cleanup regulations, soils that will be excavated during redevelopment activities are considered to be a solid waste. Therefore, waste disposal regulations would apply to these soils, to a certain extent, as discussed below. Soils that will be left in place and not excavated during future earthwork activities are not

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considered to be a solid waste and the discussion below would not apply. Soils that will be left in place need only comply with the MTCA cleanup regulations discussed above.

Petroleum-Contaminated Soils

In addition to comparison of the soil analytical results to the applicable MTCA Method A soil cleanup levels discussed above, Atlas compared the results to the soil re-use criteria included in Table 12.1 "Guidelines for Reuse of Petroleum-Contaminated Soil" published in Ecology's Guidance for Remediation of Petroleum Contaminated Sites (2016). As mentioned above, the re-use criteria apply only if the soils are excavated from the subject property. If the soils in the areas discussed below are not anticipated to be excavated as part of the planned redevelopment activities, the re-use criteria are irrelevant and do not apply.

Although the residual diesel-range TPH detected in soils collected from GMW10 at a depth of 11 feet bgs (49 mg/kg) is in compliance with the MTCA Method A cleanup level, the concentration classifies the soil as Category 2, which have the following re-use criteria:

- Backfill at cleanup sites above the water table.
- Fill in commercial or industrial areas above the water table.
- Road and bridge embankment construction in areas above the water table.
- Use as pavement base material under public and private paved streets and roads.
- Use as pavement base material under commercial and industrial parking lots.
- Use in the manufacture of asphalt.
- Use as daily cover in a lined municipal solid waste or limited purpose landfill provided this is allowed under the landfill operating permit.

Boring GMW10 is located in the central portion of the subject property parcel, on the northeastern portion of the former gas station facility. Adversely-affected soils in this area appear to be present in a thin lens measuring roughly 1 to 2 feet in thickness (i.e., extending from approximately 11 to 12 or 13 feet bgs).

In addition, soils encountered at a depth of 22 feet bgs from boring GMW13 exhibited gasoline- and diesel-range TPH concentrations (3,400 and 540 mg/kg, respectively) that classify as Category 4, which have the following re-use criteria:

- Use in the manufacture of asphalt.
- Use as daily cover in a lined municipal solid waste or limited purpose landfill provided this is allowed under the landfill operating permit.

The shallower soils in boring GMW13, collected from a depth of 5 feet bgs, classified as Category 1 (special handling not required), so special handling would not likely be required for all soils in this location. A review of the boring log suggests that soils impacted to an extent above Category 1 may be present at depths between 20 and 35 feet bgs. GMW13 is located on the northeastern portion of the subject property parcel, approximately 60 feet north of the former gas station facility.

PCE-Contaminated Soils

Atlas also compared the soil analytical results to the dangerous waste criteria outlined in WAC 173-303 in order to evaluate the PCE-affected soils. Spent PCE generated during dry cleaning operations is considered a "listed" waste, meaning that simply due to the process that generated the waste (i.e., dry cleaning) it is considered dangerous, with codes of F001 and/or F002. Listed wastes may be considered dangerous if they are detected at any concentration (i.e., there is no threshold concentration below which the PCE-affected soils would not be considered dangerous). These soils require disposal at a landfill and may not be otherwise be re-used.

However, Ecology provides a mechanism with which an exemption can be obtained regarding disposal of the waste (a "contained in" exemption). This exemption would allow disposal of the soil at a non-hazardous waste landfill, which is considerably less expensive than a hazardous waste landfill. Based on the PCE concentrations detected in the soils at the subject property, it is likely that the PCE-affected soils that were encountered during this Data Gap Investigation would receive this exemption. The process to obtain this exemption requires regulatory negotiations, and Ecology may request additional data to support the exemption. Soils on the subject property that are, or may be, affected by this include:

- Soils on the northwestern portion of the subject property parcel (vicinity of soil boring GMW8) at a depth of one foot. The affected soils in this location may be present in lenses to a depth of 21 feet bgs.
- Soils on the central portion of the subject property parcel (vicinity of soil boring GMW10) at depths of greater than 39 feet bgs.
- Soils on the south-central portion of the subject property parcel (vicinity of soil boring GMW11) at depths greater than 22 feet bgs.
- Soils on the north-central portion of the subject property parcel ((vicinity of soil boring B11) at any depth.

Additional adversely-affected soils for which these solid waste considerations may apply could be encountered in other locations across the subject property (e.g., immediately west of the dry cleaners building). Additional investigation would be necessary to evaluate those areas with regard to the soil re-use and dangerous waste criteria.

3.4 Quality Assurance/Quality Control (QA/QC) 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.

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<u>Hold Times</u>. All analyses were completed within specified hold times, except for the gasoline-range TPH analysis for groundwater grab sample B11, which was analyzed four days after the method holding time had expired. However, the sample was received by the laboratory within 36 hours of the time of its collection and maintained in laboratory-controlled conditions until the time it was analyzed. Therefore, Atlas considers this sample result to be valid for the purposes of this data gap investigation.

Surrogate Recoveries. Surrogate recoveries for each sample were within laboratory limits.

<u>Method Blanks.</u> Analytes were not detected in the laboratory method blanks associated with the sample set.

MS/MSD Results. MS and MSD recoveries were each within laboratory limits, and relative percent differences (RPDs) between MS and MSD recoveries were each within laboratory limits.

<u>Spike Blank/Spike Blank Duplicate</u>. The percent recovery for diesel- and oil-range TPH for the duplicate RPD for soil sample B11-8 was outside the control limits. However, the individual percent recoveries were within control limits. Due to the large number of analytes being spiked, the method allows for a percentage of the compounds to fall outside of the control limits. It is our opinion that these results are appropriate for use for the purposes of this report.

<u>Laboratory Reporting Limits</u>. Reporting limits for the soil and groundwater petroleum and metals analytical results were below relevant MTCA cleanup levels, except for PCE and TCE in soil sample GMW13-22 due to laboratory dilution. The reporting limit for PCE and TCE in soil sample GMW13-22 was 0.056 mg/kg. The sample was collected over 60 feet north (cross-gradient) of the former gasoline station operations. As discussed above, this sample is representative of the off-property dry cleaning operations rather than those associated with the former gasoline station. Therefore, the elevated detection limits in this sample do not affect the findings associated with subject property.

Based upon our interpretation of quality control information provided by the laboratory, it is our opinion that the overall dataset is acceptable and appropriate for the purposes of this investigation.

4.0 SUBJECT PROPERTY RESTORATION

Permanent monitoring wells were installed at the subject property as described in Section 2.1. The other soil borings were abandoned with a bentonite seal in accordance with Washington State Department of Ecology guidelines and the surficial area at the borehole was patched to approximate the surrounding surface.

5.0 WASTE MANAGEMENT

Soil cuttings, purge water, and equipment cleaning water generated during the field activities were placed into Department of Transportation (DOT)-approved, 55-gallon

steel drums, which were left on-property for subsequent characterization and disposal. Disposal of drummed material is not included in this scope of work. Atlas will contact the client regarding drum disposal options.

6.0 CONCLUSIONS AND RECOMMENDATIONS

As previously discussed, the objectives of this Data Gap Investigation were to assess the perceived data gaps regarding the shallow soil and groundwater at the subject property associated with the former gasoline service station.

Based on our Data Gap Investigation findings, and relying upon the results of laboratory testing, Atlas concludes the following:

- Soil and groundwater intercepted by our borings are in compliance with their applicable MTCA cleanup levels for the specific COCs related to the Unocal 4384 property. The elevated gasoline-range TPH detected in GMW13 was determined by the laboratory to be mineral spirits rather than gasoline. Therefore, it is likely associated with the north-adjoining dry cleaners. The PCE detected in the groundwater is also attributed to the north-adjoining dry cleaner.
- Petroleum contamination, including BTEX, was not encountered in the vicinity of the pump islands associated with the former on-property UST system and oil-water separator.
- Petroleum contamination was not identified in soil samples collected during this
 investigation in the vicinity of the former heating oil UST remedial excavation area
 in the east-central portion of the subject property, defining the vertical extent.
- Total metals in soil in the vicinity of the former on-property sump are in compliance with applicable MTCA cleanup levels.
- Remaining PCS previously reported at the subject property appears to have naturally attenuated and is not adversely impacting soil and groundwater at the subject property. No further investigation is warranted or recommended in regards to the former gasoline service station at the subject property.
- Soils in some areas of the subject property parcel will likely require special handling during redevelopment earthwork activities. Coordination with an environmental consultant during planned redevelopment activities is recommended for soils in the areas described herein.

The non-compliant gasoline-range TPH detection in soil and PCE detections in groundwater appear to be originating from the north-adjoining Kevik Cleaners property and not the release previously identified at the former gasoline service station on the subject property. The results and findings associated with the north-adjoining Kevik Cleaners property are discussed in further detail under a separate cover.

Atlas recommends submitting this report to Ecology for review and issuance of an no further action determination for the Unocal 4384 property.

7.0 LIMITATIONS AND EXCEPTIONS

This subsurface investigation is intended to reduce, but not eliminate, uncertainty regarding the potential for adversely affected media in connection with the subject property. In addition, performance of this subsurface investigation does 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 this subsurface investigation 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.

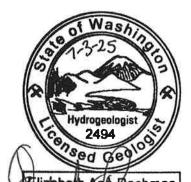
8.0 CLOSURE

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.

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

Sincerely,

ATLAS GEOSCIENCES NW



Hizabeth And Rachman

Elizabeth Rachman, LG, LHG Principal Hydrogeologist

Attachments:

Figure 1:

Subject Property Vicinity

Figure 2:

Subject Property Plan

Figure 3:

Groundwater Elevations Map - December 2024

Table 1:

Soil Sample Analytical Results

Table 2:

Groundwater Sample Analytical Results

Appendix A:

Boring and Monitoring Well Logs

Appendix B:

Laboratory Analytical Reports and Sample Chain-of-

Custody Forms



FIGURES



BASEMAP TAKEN FROM THE MERCER ISLAND QUADRANGLE, WASHINGTON- KING COUNTY 7.5-MINUTE SERIES, 2023



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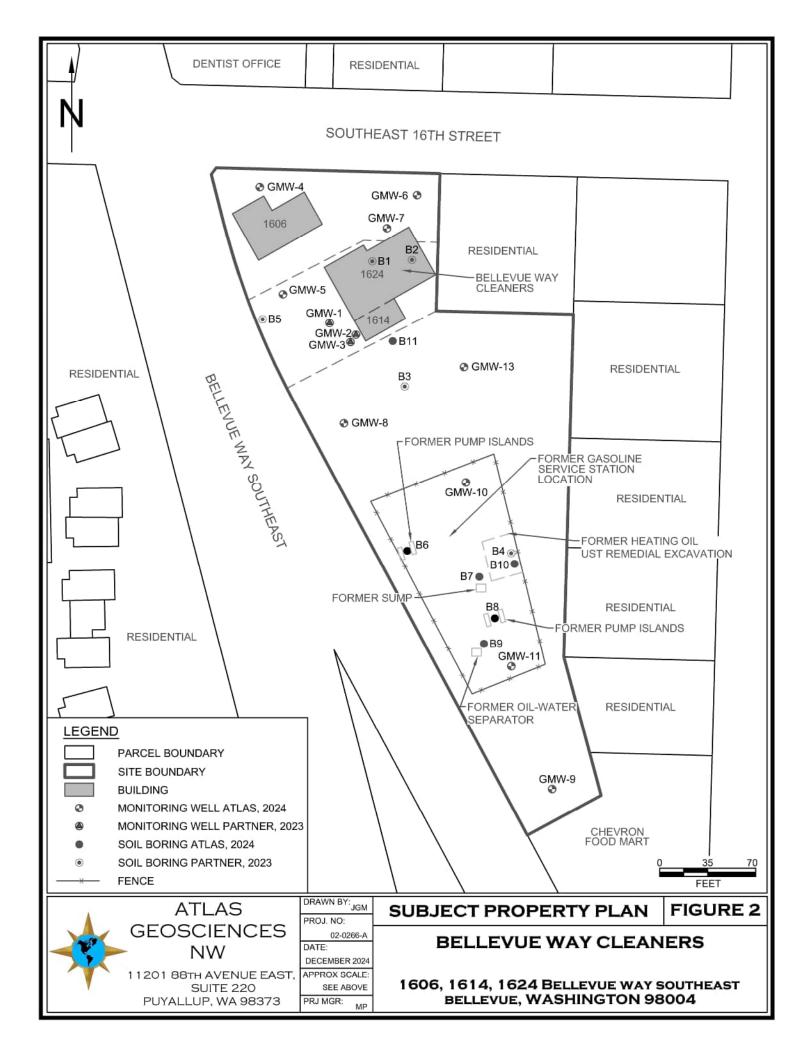
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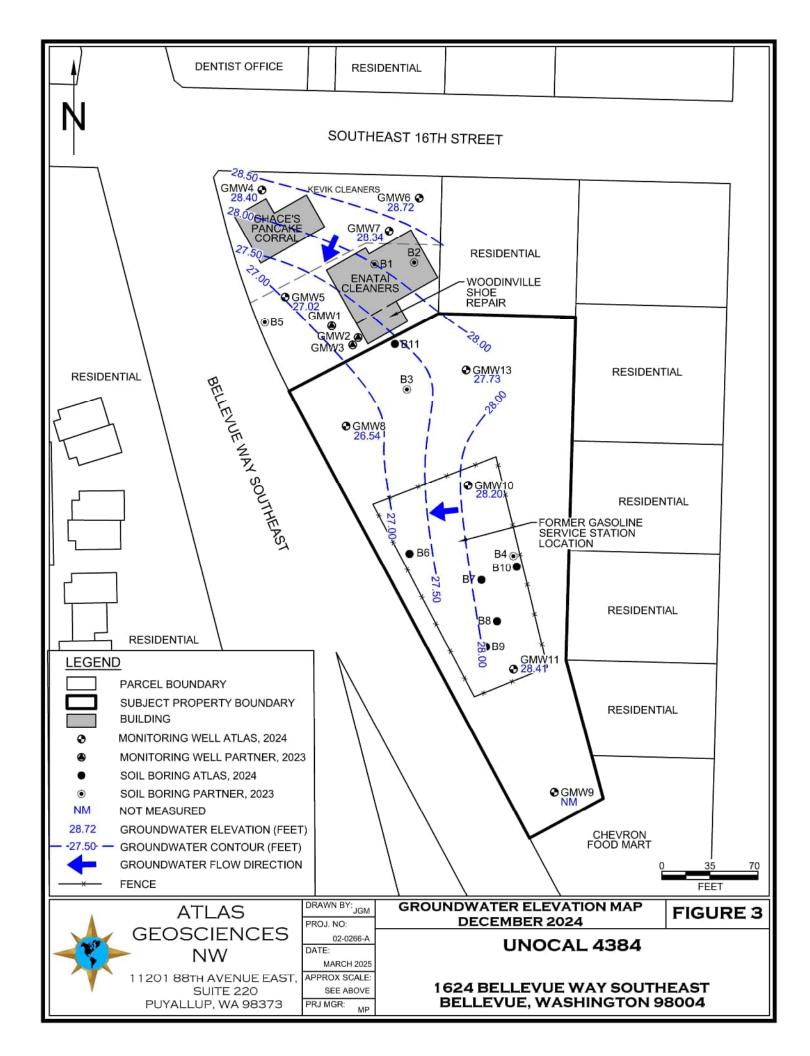
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,	PROJ. NO:
)	02-0266-A
	DATE:
	MARCH 2025
	APPROX SCALE:
	1:24,000
	PRJ MGR:

SUBJECT PROPERTY VICINITY

FIGURE 1

UNOCAL 4348 1624 BELLEVUE WAY SOUTHEAST BELLEVUE, WASHINGTON







TABLES

TABLE 1

Soil Sample Analytical Results Unocal 4384 1624 Bellevue Way Southeast Bellevue, Washington Project Number 02-0266-A

				Petrole	eum Hydroc	arbons					Volatile	Organic Com	pounds							Total Me	etals			
Boring Location	Sample Designator	Sample Date	Sample Depth (feet bgs)	Gasoline	Diesel	Oil	Benzene	Ethylbenzene	Toluene	Xylenes	Tetrachloro- ethene	Trichloro- ethene	1,2-Dichloro- ethane	(cis) 1,2- Dichloroethene	(trans) 1,2- Dichloroethene	Vinyl Chloride	Arsenic	Barium	Cadmium	Chromium ⁴	Lead	Mercury	Selenium	Silver
						U.					Co	ncentrations	reported in milli	grams per kilogram	1	•		•	•	•		1	<u>'</u>	
MTCA Metho	od A or B Soil Cl	eanup Level ²		30/100 ³	2,000	2,000	0.03	6	7	9	0.05	0.03	480	160	1,600	1	20	16,000	2	2,000	250	2	400	400
CNAVA	GMW4-25	11/18/2024	25								0.0022	< 0.0011	< 0.0011	<0.0011	< 0.0011	< 0.0011								
GMW4	GMW4-50	11/18/2024	50								<0.00094	<0.00094	< 0.00094	< 0.00094	< 0.00094	< 0.00094								
	GMW5-6	11/18/2024	6								0.013	<0.0011	<0.0011	<0.0011	<0.0011	< 0.0011								
GMW5	GMW5-30	11/18/2024	30								0.031	<0.0012	<0.0012	<0.0012	< 0.0012	< 0.0012								
	GMW5-50	11/18/2024	50								<0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012								
GMW6	GMW6-35	11/19/2024	35								0.0029	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011								
Cinivo	GMW6-55	11/19/2024	55								< 0.0011	<0.0011	< 0.0011	<0.0011	<0.0011	<0.0011								
	GMW7-7	11/19/2024	7	<5.5	<27	<54					0.015	<0.0010	<0.0010	<0.0010	< 0.0010	<0.0010								
GMW7	GMW7-22	11/19/2024	22								0.035	< 0.00074	<0.00074	<0.00074	< 0.00074	< 0.00074								
	GMW7-50	11/19/2024	50								<0.00090	<0.00090	<0.00090	<0.00090	<0.00090	<0.00090								
	GMW8-1	11/20/2024	1								0.00081	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074								
GMW8	GMW8-22	11/20/2024	22								<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085								
	GMW8-60	11/20/2024	60								<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010								
GMW9	GMW9-28	2/10/2025	28	<5.8	<28	<56					<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011								
	GMW10-11	11/21/2024	11	<5.6	49	<55																		
GMW10	GMW10-40	11/21/2024	40								0.030	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011								
	GMW10-55	11/21/2024	55								0.014	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013								
GMW11	GMW11-22	11/21/2024	22								<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010								
	GMW11-55	11/21/2024	55								0.035	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012								
	GMW13-5	11/22/2024	5	<5.5	<27	<55					<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011								
GMW13	GMW13-22	11/22/2024	22	3,400	540	<56					<0.056	<0.056	<0.056	<0.056	<0.056	<0.056								
	GMW13-65	11/22/2024	65								<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014								
В6	B6-4-5	11/18/2024	4-5	<6.3	<30	<60	<0.020	<0.063	<0.063	<0.126														
D7	B6-9-10	11/18/2024	9-10	<5.8	<27	<54	<0.020	<0.058	<0.058	<0.116										16				
B7	B7-5-6 B8-4-5	11/18/2024	5-6							-0.110							<11	26	<0.54	16	<5.4	<0.27	<11	<1.1
B8	B8-4-5 B8-10-11	11/18/2024	4-5	<5.5			<0.020	<0.055 <0.057	<0.055	<0.110														
B9	B8-10-11 B9-5-6	11/18/2024 11/18/2024	10-11 5-6	<5.7			<0.020		<0.057	<0.114														
ВЭ	B9-5-6 B10-31	11/18/2024	31	<5.4	<26	<53	<0.020	<0.054	<0.054	<0.108	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010								
B10	B10-31	11/22/2024	35		<28	<53 <57					<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010								
	B10-35 B11-8	11/22/2024	8	<5.1	<27	<5 <i>1</i>					0.0017	<0.00095	<0.00095	<0.00095	<0.00095	<0.00095								
B11	B11-0	11/20/2024	25	<0.1		<04					0.0017	<0.00095	<0.00095	<0.00095	<0.00095	<0.00095								
	B11-25	11/20/2024	55								<0.0023	<0.00066	<0.0008	<0.0008	<0.0008	<0.0006								
	D11-00	11/20/2024	- 55								<0.001Z	<0.001Z	V0.001Z	V0.001Z	Q0.001Z	<0.001Z								

Notes:

Only detected and target analytes are included in this table. Refer to laboratory analytical reports for full list of analytes and analytical methods.

¹For analytes without positive detections, a value of one-half of the practical quantitation limit indicated is assigned for that analyte when calculating the sum of diesel and oil-range petroleum hydrocarbons.

²MTCA Standard Method A Soil Cleanup Levels for Unrestricted Land Uses, Chapter 173-340 Washington Administrative Code, Table 740-1, or, where no Method A value is available, the most conservative Method B value for direct contact based on MTCA Chapter 173-340-740 Equations 740-1 or 740-2.

³The higher cleanup level applies to sites with no detectable benzene and total ethylbenzene, toluene, and xylenes concentration is less than 1% of the gasoline mixture.

⁴Cleanup level for trivalent chromium used. Hexavalent chromium is not suspected on the site.

bgs Below ground surface

MTCA Model Toxics Control Act

<5.7 The analyte was not detected in the sample at a concentration greater than the indicated reporting limit.

89 Bold value indicates concentration of analyte detected in the sample.

510 Indicates analyte detected at a concentration greater than the specified cleanup level.

--- Not analyzed

Table 2

Groundwater Sample Analytical Results Unocal 4348 1624 Bellevue Way Southeast Bellevue, Washington Project Number 02-0266-A

			Petrol	eum Hydroca	ırbons			Volatile Orgar	nic Compounds		
Boring Location	Sample Designator	Sample Date	Gasoline	Diesel	Oil	Tetrachloro- ethene	Trichloro- ethene	(cis) 1,2- Dichloroethene	(trans) 1,2- Dichloroethene	Vinyl Chloride	1,1,2- Trichloro- ethane
Concentration	s reported in m	icrograms per lit	ter								
MTCA Method Level ²	A or B Ground	water Cleanup	800/1,000 ³	500	500	5	5	16	160	0.2	32
GMW1	GMW1	2/13/2025	<100	<210	<210	0.21	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
GMW3	GMW3	2/13/2025	<550 Z	<210	<210	580	<4.0	<4.0	<4.0	<4.0	<4.0
GMW4	GMW4	12/2/2024				2.7	<0.20	<0.20	<0.20	<0.20	< 0.20
GMW5	GMW5	12/3/2024				160	<1.0	<1.0	<1.0	<1.0	<1.0
GMW6	GMW6	12/2/2024				19	< 0.20	< 0.20	< 0.20	< 0.20	<0.20
GMW7	GMW7	12/3/2024				150	<1.0	<1.0	<1.0	<1.0	<1.0
GMW8	GMW8	12/3/2024				270	1.2	<1.0	<1.0	<1.0	<1.0
GMW9	GMW9	2/13/2025	<100	<210	<210	< 0.20	<0.20	<0.20	<0.20	<0.20	<0.20
GMW10	GMW10	12/2/2024	200 Z	<220	<220	200	<1.0	<1.0	<1.0	<1.0	<1.0
GMW11	GMW11	12/2/2024	<100	<220	<220	1.3	<0.20	<0.20	<0.20	< 0.20	<0.20
GMW13	GMW13	12/4/2024	510	<200	<200	150	<1.0	<1.0	<1.0	<1.0	<1.0
B11	B11	11/21/2024	280 Z			270	<2.0	<2.0	<2.0	<2.0	<2.0

Notes:

Only detected and target analytes are included in this table. Refer to laboratory analytical reports for full list of analytes and analytical methods.

³The higher cleanup level applies to sites with no detectable benzene.

MTCA Model Toxics Control Act.

Z The gasoline result is attributed to a single peak (Tetrachloroethene).

<1.0 The analyte was not detected in the sample at a concentration greater than the indicated method reporting limit.

200 Bold value indicates concentration of analyte detected in sample.

1,100 Indicated analyte detected at a concentration greater than the specified cleanup level.

--- Not analyzed.

¹For analytes without positive detections, a value of one-half of the practical quantitation limit indicated is assigned for that analyte when calculating the sum of diesel and oil-range petroleum

²MTCA Method A Cleanup Level for Groundwater, Chapter 173-340 Washington Administrative Code, Table 720-1, or, where no Method A value is available, the most conservative Method B value for

Table 3

Groundwater Elevation Measurements and Well Construction Data Unocal 4384 1624 Bellevue Way Southeast Bellevue, Washington Project Number 02-0266-A

Location	Well Installation Date	Elevation of Top of Well Casing (feet)	Depth to Top of Screen (feet)	Depth to Bottom of Screen (feet)	Well Diameter (inches)	Date Measured	Depth to Water (feet)	Groundwater Elevation (feet)
GMW4	11/18/2024	69.90	36.0	46.0	2	12/2/2024	41.50	28.40
GMW5	11/18/2024	67.52	37.0	47.0	2	12/2/2024	40.50	27.02
GMW6	11/19/2024	70.72	39.0	49.0	2	12/2/2024	42.00	28.72
GMW7	11/19/2024	69.34	38.0	48.0	2	12/2/2024	41.00	28.34
GMW8	11/20/2024	63.54	34.5	44.5	2	12/2/2024	37.00	26.54
GMW9	2/10/2025	Not Measured	27.0	37.0	2	N/A	31.00	N/A
GMW10	11/21/2024	63.20	31.0	41.0	2	12/2/2024	35.00	28.20
GMW11	11/21/2024	58.41	27.0	37.0	2	12/2/2024	30.00	28.41
GMW13	11/22/2024	64.73	34.0	44.0	2	12/2/2024	37.00	27.73

Notes:

Well elevations measured relative to site specific datum set at the man hole at the center of the property, which was determined to be approximately 67.00 feet above mean sea level based on data from Google Earth.

All measurements are in feet.

N/A Not Applicable.



APPENDIX A Boring and Monitoring Well Logs

BORING AND WELL LOG LEGEND

Lithology Key

Well Construction

Concrete

Solid riser

Bentonite

Bentonite-Cement Grout

	Ó	•	(
þ.	٠	0	٠
ŀ	0	٠	0
þ	٠	0	٠

GW

GRAVEL, well graded: gravel-sand mixtures, little or no fines.



GΡ

GRAVEL, poorly graded: gravel-sand mixtures, little or no





GM

SILTY GRAVEL: gravel-sand-silt mixtures.



GC

CLAYEY GRAVEL:

gravel-sand-clay mixtures.



SW

SAND, well graded: sand-gravel mix, little or no fines.



SP

SAND, poorly graded: sand-gravel

mix, little or no fines.



SM

SILTY SAND: sand-gravel-silt mixtures.



Filter pack

Screen

Soil



End cap



CLAYEY SAND: sand-gravel-clay mixtures.



ML or MH

INORGANIC SILTS: inorganic silts with very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity (ML) or inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts (MH).



CL or CH

INORGANIC CLAY: with low to medium (CL) to high (CL) plasticity.



OL or OH

ORGANIC SILT/CLAY: with low (OL) to medium-high (OH) plasticity.



PT

Peat and other highly organic silts.



Pav

Pavement: Concrete, asphalt, paving stones, etc.

Field Measurements:

PID

Photoionization Detector.



Depth to water during drilling.



Depth to water after drilling.

vppm Volumetric Parts per Million.

NOTE: The line separating strata on the logs represents approximate boundaries only. The actual transition may be gradual. No warranty is provided as to the continuity of the strata between exploration locations. Logs represent the soil section observed at the exploration location on the date of exploration only.





PROJECT NAME: DRILLING DATE: PROJECT NUMBER: **Bellevue Way Cleaners** 02-0266-A 11/18/2024 BORING DIAMETER: DRILLING CONTRACTOR: WEATHER: **AEC** 6" Rainy DRILLING METHOD: TOTAL DEPTH: DEPTH TO WATER: 50' **Sonic** 41.5' LOCATION: LOGGED BY:

BQ

BORING/WELL ID:

Bellevue, Washington

GMW4

Deptn (reet)	USCS Soil Type/Graphic	Description	Interval and % Recovery	PID (vppm)	Sample ID	We	ell Construction
0]	PAV	0-0.25': Asphalt.					0 Flush mounted
	* 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.25'-31': Brown, fine to coarse silty sand with gravel, loose, no sheen, dry, poorly sorted, no odor.	50	0			cover - Concrete Seal
5 -	7 0 0 0 0 7 0 0 0 0 8 0 0 0 0 8 0 0 0 0 8 0 0 0 0	Brick pieces. No brick pieces.		0.4 0 1.4	GMW4-5 GMW4-6 GMW4-7		-5
- - - -		Decrease in gravels.	100	0.2	GMW4-7 GMW4-9 GMW4-10		2" PVC Blank
ر [* 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Decrease in graverer	100	0.6 0 0 0.1	GWW 4-10		-10
5 -				0.7 0.7 0.1	GMW4-15		-15
			100	0.1			_
0 -		Dagaman danas	0/ Dagger	0.1	GMW4-20		- 20 Bentonite Seal
5 - 5 -	SM	Becomes dense. Slight sweet odor.	% Recove		GMW4-5		- Bernonne Sear
=		No odor.		0.1			-
0 =		241 22h Na rassusmi		0.8	GMW4-30		-30
	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31'-32': No recovery. 32'-50': Brown, fine to coarse silty sand, loose, no sheen, dry, poorly sorted, no odor.		0.4			
5 - - -				1.2	GMW4-35		-35
- - 0 -				0.7	GMW4-40		-40
=		Becomes wet.		0			- Sand Pack
5 		Decrease in fines, becomes moist.		1.7	GMW4-45		-45 2" O.D. Well Screen (10 slot
1				0			
) - -		Boring terminated at 50 feet, groundwater monitoring well installed.	_	0	GMW4-50		-50



PROJECT NAME: DRILLING DATE: PROJECT NUMBER: **Bellevue Way Cleaners** 02-0266-A 11/18/2024 BORING DIAMETER: DRILLING CONTRACTOR: WEATHER: **AEC** 6" Rainy DRILLING METHOD: TOTAL DEPTH: DEPTH TO WATER: 50' **Sonic** 40.5' LOCATION: LOGGED BY: Bellevue, Washington

BQ

BORING/WELL ID:

GMW5

Depth (feet)	USCS Soil Type/Graphic	Description	Interval and % Recovery	PID (vppm)	Sample ID	We	ell Construction
0 _	PAV	0-0.25': Asphalt	% Recovery				O Flush mounted 8" cover
-		0.25'-50': Brown, fine to coarse silty sand with gravel, loose, no sheen, dry, poorly sorted, no odor.	not recorded.				- Concrete Seal
		loose, no sneem, dry, poony sorted, no odor.		0			
5 -				0.1	GMW5-5		-5
-				0.7	GMW5-6		
_				0.1			- 2" PVC Blank
-					0		10
10 -				0	GMW5-10		-10
-		Sweet odor.		0.1			
-				0.4			
15 -				0.4	GMW5-15		- 15
-				0.6			
_		No odor.		0.3			_
_		140 0001.		0.5			
20 -	SM			0.1	GMW5-20		-20
_				4	GMW5-21		
-		Increase in fines.		1.4			 Bentonite Seal
25 -				2.6	GMW5-25		-25
25 -				0.6	GIVIVV 3-23		25
-							_
				2.6			
30 -				5	GMW5-30		-30
-		Increase in gravels.		1.2			
_				0.8			_
					0.		0.5
35 -				1.6 1.3	GMW5-35		-35
-				4.2	GMW5-37		
-						10000	
40 -				0.9	GMW5-40		-40
-				0.2		18 28	Sand Pack
_		Becomes wet.		0			-
_							2" O.D. Well Screen (10 slot)
45 -				0.1	GMW5-45		-45 Screen (10 slot)
_				0			
-				0		111 111	Bentonite Seal
50 -				0	GMW5-50		-50
JU - -		Boring terminated at 50 feet, groundwater monitoring		0	GIVIVV 3-30		30
-		well installed.					_



PROJECT NAME: DRILLING DATE: PROJECT NUMBER: **Bellevue Way Cleaners** 02-0266-A 11/19/2024 BORING DIAMETER: DRILLING CONTRACTOR: WEATHER: **AEC** 6" Cloudy DRILLING METHOD: TOTAL DEPTH: DEPTH TO WATER: 55' **Sonic** 42' LOCATION: LOGGED BY: Bellevue, Washington

BQ/RM

BORING/WELL ID:

GMW6

Depth (feet)	USCS Soil Type/Graphic	Description	Interval and % Recovery	PID (vppm)	Sample ID	We	ell Construction
0	PAV	10'-0.25': Asphalt.	% Recovery	0			O Flush mounted 8 cover
1		0.25'-24': Brown, fine to coarse silty sand with gravel, loose, no sheen,dry, poorly sorted,no odor.	not recorded.	0			- Concrete Seal
5 =		, oo, a., y, poony oonoo, o odo		0 0.3	GMW6-5 GMW6-6		-5
0 -				0.7 0.5 0.3 0.2	GMW6-8 GMW6-9 GMW6-10		- 2" PVC Blank -10
-				0.7			
5 -				0.9 0.5	GMW6-15		- 15
1		Becomes moist.		0			
0 -	# # # # # # # # # # # # # # # # # # #	Becomes dense.		0 0.3	GMW6-20		-20
}				0.6			 Bentonite Seal
5 -		24'-31': Brown, fine to coarse silty sand, loose, no sheen, dry, poorly sorted, no odor.		0.7 0.5	GMW6-25		-25
\exists	SM			0.2			
0]		31'-34': No recovery.		0.1	GMW6-30		-30
1		·		2.3			
5 -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	34'-50': Brown, fine to coarse silty sand with lenses of compacted silt, loose, no sheen, dry, poorly sorted, slightly sweet odor. No odor.		6.5 4.2 1.3 2.4	GMW6-35		- 35 -
0 =				1.4 1.1	GMW6-40		-40
}		Becomes wet.		1.9	GMW6-43		Sand Pack
5 -		Becomes coarser grained.		1.7 1.6	GMW6-45		-45 2" O.D. Well Screen (10 slot)
$\frac{1}{2}$				0.7			
o				0.4 0	GMW6-50		-50 Bentonite Seal
7				0			
5		Boring terminated at 55 feet, groundwater monitoring well installed.	_	0	GMW6-55		-55



PROJECT NAME: DRILLING DATE: PROJECT NUMBER: **Bellevue Way Cleaners** 02-0266-A 11/19/2024 BORING DIAMETER: DRILLING CONTRACTOR: WEATHER: **AEC** 6" Cloudy DRILLING METHOD: TOTAL DEPTH: DEPTH TO WATER: 50' **Sonic** 41' LOCATION: LOGGED BY: Bellevue, Washington

BQ/RM

BORING/WELL ID:

GMW7

Depth (feet)	USCS Soil Type/Graphic	Description	Interval and % Recovery	PID (vppm)	Sample ID	W	ell Construction
0		0'-0.25': Asphalt.	= 8	_	Janiple 15		0 Flush mounted 8"
- -		0.25'-11': Brown, fine to coarse silty sand with gravel, loose, no sheen, dry, poorly sorted, no odor.	Recovery not recorded.	0.5 0	GMW6-2		cover Concrete Seal
5 -	SM			0.4 0 0.9 0.7	GMW7-5 GMW7-6 GMW7-7		- 5 - 2" PVC Blank
10 -				0 0 2.7	GMW7-9 GMW7-10 GMW7-11		-10
-		11'-20.5': Brown, fine to coarse sandy silt, trace gravel, loose, no sheen, moist, poorly sorted, slightly sweet odor.		1.1	J		_
15 -		No odor.		1.3 1.2	GMW7-15		-15
-		Mottled.		0.2	01047-00		-
20 -		Becomes dry. 20.5'-40': Brown, fine to coarse silty sand, loose, no sheen, dry, poorly sorted, no odor		3.2 0.5 6.1	GMW7-20 GMW7-22		- 20 - Bentonite Seal
25 - -	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Slight sweet odor. No odor.		0.9 1.5 0.2	GMW7-25		-25
30 -	SM			0.3 2.3 4.9 1.6	GMW7-30		-30
-		Increasing fines.		1 1.5			
35 - - - -				1.1 4.2 3.2 1.4	GMW7-35 GMW7-36		-35
40 -		40'-50': Brown, poorly sorted, fine to coarse sand, loose, wet, no odor, no sheen.		2.9 0.3	GMW7-40		-40 Sand Pack
45 - -	SP			0.1	GMW7-45		2" O.D. Well Screen (10 slot)
- - -				0.1			-
50 - - -		Boring terminated at 50 feet, groundwater monitoring well installed.		0	GMW7-50		-50



PROJECT NAME: DRILLING DATE: PROJECT NUMBER: **Bellevue Way Cleaners** 02-0266-A 11/20/2024 BORING DIAMETER: DRILLING CONTRACTOR: WEATHER: **AEC** 6" Clear DRILLING METHOD: TOTAL DEPTH: DEPTH TO WATER: 60' **Sonic** 37' LOCATION: LOGGED BY:

RM

BORING/WELL ID:

GMW8

NOTES: Well Tag: BQU-273

Bellevue, Washington

O Depth (feet)	USCS Soil Type/Graphic	Description	Interval and % Recovery	PID (vppm)	Sample ID	We	ell Construction
		0'-0.25': Gravel.		1.7	GMW8-1		0 Flush mounted 8"
-	SM	0.25'-6': Brown, fine to coarse silty sand with gravel, loose, no sheen, dry, poorly sorted, no odor.	% Recovery not recorded.	0.6			cover Concrete Seal
5 -		6'-28': Brown, fine to medium sand, trace silt, loose, no sheen, slightly moist, poorly sorted, no odor.	-	0.3 0.6	GMW8-5		- 5 - 2" PVC Blank
10 -		oneon, ongmy moist, poony sorted, no odor.		0.5 1.1 0.5 2.8	GMW8-10		-10
15		16'-20': No recovery.		0.3	GMW8-15 GMW8-16		-15
20 -	SP			0.3	GMW8-19		-20
		Becomes dense, increase in silt.		1.7 3.8 0.8	GMW8-22		- Bentonite Seal
25 -				1.7 1.7	GMW8-25		-25
1		28'-58': Brown, fine to medium silty sand, loose, no	_	2.4	GMW8-28		
30 -		sheen, moist, poorly sorted, no odor. Becomes fine to coarse.		1.6 2.7 0.7	GMW8-30 GMW8-31		-30
35 =	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1 0.3	GMW8-35		-35
=		Becomes wet.		2	GMW8-38		Sand Pack
10 <u> </u>	SM			1.1	GMW8-40		2" O.D. Well Screen (10 slot)
, †				0.3	GMW8-43		45
45 - - - -	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0.2	GMW8-45		- 45 -
50 =				0.2 0.5 0.1	GMW8-50		-50 Bentonite Seal
 - -				0	01012		-
55 - - -				0.1	GMW8-55 GMW8-56		- 55 -
60	SP	58'-60':Brown, poorly sorted, fine to coarse sand, trace silt, loose, slightly moist, no odor, no sheen.		0.1	GMW8-60		-60

A.	PROJECT NAME:	PROJECT NUMBER:	DRILLING DATE:
ATLAS	Bellevue Way Cleaners	02-0266-A	2/10/2025
GEOSCIENCES NW	DRILLING CONTRACTOR:	BORING DIAMETER:	WEATHER:
	AEC	6"	Sunny
BORING/WELL ID:	DRILLING METHOD:	TOTAL DEPTH:	DEPTH TO WATER:
BORING/WELL ID.	Sonic	50'	31'
GMW9	LOCATION:	LOGGED BY:	
	Bellevue, Washington		RM/MVE

	ı				ı		
Depth (feet)	USCS Soil Type/Graphic	Description	Interval and % Recovery	PID (vppm)	Sample ID	We	II Construction
0	ORG	0'-0.25': Topsoil			Campions		Flush mounted 8" cover
-		0.25'-5: No recovery.)				Concrete Seal
5 -		5'-9': Brown, poorly sorted, fine to medium sandy silt, trace gravel, loose, moist, no odor, no sheen.	100	0	GMW9-5		2" PVC Blank
10 - - -		9'-25':Light brown, poorly sorted, fine to medium silty sand, some organics, loose, moist, no odor, no sheen.		0.2 0	GMW9-10		
- - 15 -		Becomes brown/gray in color.	100	0	GMW9-13		
- - -	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Increasing fines.	100	0.6 0.5	GMW9-16		
20 - - - -	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		100	0.3 0.9 0.5			Bentonite Seal
25 -	SM	25'-50': Dark gray, silty sand with compact lenses of soil, poorly sorted, no odor, dry to moist. Increase in moisture content.	100	1.7 0.9 3.4	GMW9-25 GMW9-28		
30 -		Becomes dark gray/brown in color.		1.4	GMW9-31		
-	A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Decreasing silt lenses.	100	0			Sand Pack 2" O.D. Well Screen
35 - - - -	A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		100	0 0.2	GMW9-35 GMW9-37		(10 slot)
40 -	0	Becomes wet.	100	0	01000		
45 - -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0.2	GMW9-43		Bentonite Seal
- - 50 -			100	0.2	GMW9-47 GMW9-50		
-		Boring terminated at 50 feet, groundwater monitoring well installed.		J	GIVIVV 9-30		



PROJECT NAME: DRILLING DATE: PROJECT NUMBER: **Bellevue Way Cleaners** 11/21/2024 02-0266-A BORING DIAMETER: DRILLING CONTRACTOR: WEATHER: **AEC** 6" Cloudy DRILLING METHOD: TOTAL DEPTH: DEPTH TO WATER: 55' **Sonic** 35' LOCATION: LOGGED BY: Bellevue, Washington RM

BORING/WELL ID:

GMW10

Depth (feet)	USCS Soil Type/Graphic	Description	Interval and % Recovery	PID (vppm)	Sample ID	We	ell Construction
0 _		0'-0.25': Gravel.		0.6	GMW10-1		0 Flush mounted 8
		0.25'-29': Brown, fine to coarse silty sand with gravel, loose, no sheen, moist, poorly sorted, no odor.	% Recovery not recorded.	0.1			cover - Concrete Seal
5 -				0.2			-5
-				1.7	GMW10-7		- 2" PVC Blank
0 -		Becomes gray, slight petroleum odor.		0 3.3	GMW10-11		-10
-		Becomes brown, no odor.		0.3			
 5 - 		Decoming brown, no odor.		0.4 0.1			-15
-				0.3			-
20 -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0.8	GMW10-20 GMW10-21		-20
1		Becomes fine to medium grained.		0.7			 Bentonite Seal
25 - -	SM			0.2 0.4			-25
1				0.1			-
30 -		29'-55': Brown, fine to medium silty sand, loose, no sheen, moist, poorly sorted, no odor.		0.6 3.5	GMW10-30 GMW10-31		-30 Sand Pack
- 1		Becomes white, slight organic odor. Becomes brown, no odor.		2.1			
35		Decomes brown, no odor.		2.1			-35
7				0.5			2" O.D. Well Screen (10 slot)
-				1.5			
- Ol		Becomes wet.		12.2	GMW10-40	E	-40
- 15 -				0.9	GMW10-45		-45 Bentonite Seal
7				0.9	GMW10-46		
- 50 -				0.4			-50
~ - -				0.4			
1				0			
55 -		Boring terminated at 55 feet, groundwater monitoring well installed.		0	GMW10-55		- 55



PROJECT NAME: DRILLING DATE: PROJECT NUMBER: **Bellevue Way Cleaners** 11/21/2024 02-0266-A BORING DIAMETER: DRILLING CONTRACTOR: WEATHER: **AEC** 6" Cloudy DRILLING METHOD: TOTAL DEPTH: DEPTH TO WATER: 55' **Sonic** 30' LOCATION: LOGGED BY: Bellevue, Washington

RM

BORING/WELL ID:

GMW11

Depin (leet)	USCS Soil Type/Graphic	Description	Interval and % Recovery	PID (vppm)	Sample ID	We	ell Construction
	PAV	0'-0.25': Asphalt.		0			0 Flush mounted
-		0.25'-5':Brown, fine to coarse silty sand, loose, no	% Recovery				cover Concrete Seal
_	Jil	sheen, dry, poorly sorted, no odor.	not recorded.	0			001101010000
5 -		5'-11': Brown, poorly sorted, fine to coarse sand, loose,		0.1	GMW11-5		-5
-		dry, no odor, no sheen.		1.1 1.2	GMW11-7		
-	SP	,,					- 2" PVC Blank
-) -				0.6			-10
, –		11'-21': Brown, fine to medium silty sand with gravel,	_	0.3	GMW11-11		
		loose, no sheen, dry, poorly sorted, no odor.		0.2			-
_				0.2			
; -	SM			0.1 0.6	GMW11-16		15
_				0.6	GIVIVV I I-10		
-				0.5			
) -		December 11 to 1 many 1		0.4			-20
-		Becomes white/gray in color. 21'-55': Brown, fine to coarse sand, loose, no sheen,	_	0.3	GMW11-21		
_		dry, poorly sorted, no odor.		1.4	GMW11-22		 Bentonite Seal
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					05
5 - -				0.5 2.1	GMW11-26		-25
-							_
_				1.4			
) -		Some gravel, becomes wet.		1.3			30
_				1.1	GMW11-31		Sand Pack
-				0			2" O.D. Well
5 -		No gravel.		0		.538	Screen (10 slot
_	SP	i to gravon		0			
-				0			-
_		Increasing fines.					10
) – –				0	GMW11-40		-40 Bentonite Seal
-							
-	:::::::						
5 -	::::::::			0.1	GMW11-45		- 45
-							
-				0.3			
-) -				0.7	GMW11-50		-50
, –				0.7	GMW 11-50 GMW 11-51		
_	:::::::			0.1			-
5 -	.*.*.*.*.	Boring terminated at 55 feet, groundwater monitoring		0	GMW11-55	111	-55
		well installed.					



PROJECT NAME: DRILLING DATE: PROJECT NUMBER: **Bellevue Way Cleaners** 11/22/2024 02-0266-A BORING DIAMETER: DRILLING CONTRACTOR: WEATHER: **AEC** 6" Cloudy DRILLING METHOD: TOTAL DEPTH: DEPTH TO WATER: 65' **Sonic** 37' LOCATION: LOGGED BY: Bellevue, Washington

RM

BORING/WELL ID:

GMW13

Depth (feet)	USCS Soil Type/Graphic	Description	Interval and % Recovery	PID (vppm)	Sample ID	We	ell Construction
0 _		0'-0.25': Gravel.	% Recovery	0.1			O Flush mounted 8" cover
_		0.25'-50': Brown, fine to medium silty sand with gravel, no sheen, moist, poorly sorted, organic odor.	not recorded.	0.2			Concrete Seal
5 -		Becomes light brown, no odor, dry.		0.3 0.1 0	GMW13-5 GMW13-6		- 5 - 2" PVC Blank
_				0	GMW13-9		
10 -				0 0.7	GMW13-10		-10
-				0.7	GMW13-12		
15 -	0 0 0 0 0 0 0 0 0 0			0.6 1.1	GMW13-16		-15
_				0.2			
20 -		Becomes gray, sweet odor.		0.4	GMW13-20		-20
_		positive gray, sweet each.		1810 2000	GMW13-22		Bentonite Seal
25 -	SM			172.5 60.5 117.1	GMW13-27		-25
30 -		Pocomos brown no gravel		2.9			-30
30 -		Becomes brown, no gravel.		18.9			30
-				12.8		185	
35 -		Becomes moist.		165.2	GMW 13-35		- 35
_				2.9			
40 -	0	No odor.		3.5 1.6 0.9	GMW13-40		Sand Pack -40 2" O.D. Well Screen (10 slot)
45 -				0.8	GMW 13-45		- 4 5
45 -				0.8	GIVIVV 13-45	W 33	40
-				1.3			-
50 -		Tologi D. G. d. H.		1.4	GMW13-50		-50 Bentonite Seal
		50'-65': Brown, fine to coarse sand, trace silt, no sheen, moist, poorly sorted, no odor.		2	GMW13-51		Bentonite Seal
-	• • • • • • • • • • • • • • • • • • • •	most, poorly softed, no odor.		0.7			<u> </u>
55 -	SP			1.5			-55
-				0.4			
60 -		Becomes wet.		0.6	GMW13-60		60
-							_
-		1		0	01.01.1.2.2.2		05
65 -		Boring terminated at 65 feet, groundwater monitoring well installed.	-	0	GMW13-65	111/111	-65
		won motanea.					H

11/18/2024 WEATHER:	
Dainy	
Rainy	
DEPTH TO WATER:	
N/A	
LOGGED BY:	
HS	

NOTES:

Depth (feet)	USCS Soil Type/Graphic		Interval and	recovery	PID (vppm)		
Dep	USC Type	Description	Inte	9	F	Sample ID	Well Construction
0	OBC	0'-0.5': Dark brown, topsoil containing roots and					
_		organic matter, loose, moist, no odor, no sheen. 0.5'-15': Brown, fine to medium silty sand with gravel, moist, no odor, no sheen.		5	5.2	B6-0-1	Temporary boring. Backfilled with bentonite.
-	SM		60		0		
5 -				,	0	B6-4-5	
_	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0	B6-5-6	
-		Becomes dry.	60		0		
10 -					0	B6-9-10	
_		Increasing fines.		1	1.5	B6-10-11	
_			100		0		
15 -		Boring terminated at 15 feet, groundwater not encountered.			0	B6-14-15	

IOTES:	HS		
B7	LOCATION: Bellevue, Washington		LOGGED BY:
	Direct Push	15'	N/A
BORING/WELL ID:	DRILLING METHOD:	TOTAL DEPTH:	DEPTH TO WATER:
	Holocene	2"	Rainy
GEOSCIENCES NW	DRILLING CONTRACTOR:	BORING DIAMETER:	WEATHER:
★ ATLAS	Bellevue Way Cleaners	02-0266-A	11/18/2024
A.	PROJECT NAME:	PROJECT NUMBER:	DRILLING DATE:

Depth (feet)	USCS Soil Type/Graphic	Description	Interval and	6 Kecovery	PID (vppm)	Sample ID	Well Construction
0	PAV_	0'-0 25': Asnhalt	2	5	_	Sample ID	770 30113 4011011
-	SM.	0'-0.25': Asphalt. 0.25'-4': Brown, fine to medium sand with gravel, moist, medium dense, no odor, no sheen.		(0		Temporary boring. Backfilled with bentonite.
-		4'-6.5': Gray-brown, fine sandy silt, moist, no sheen,	60	(0		
5 -		no odor.			0	B7-4-5	
-	-			(0	B7-5-6	
-		6.5'-15': Brown, fine silty sand with gravel, dry, no odor, no sheen.	100	0			
_					0	B7-8-9	
10 -	SM				0		
-					0		
-	-		100		0		
15 -		Boring terminated at 15 feet, groundwater not encountered.		(0	B7-14-15	

11 FT	PROJECT NAME:	PROJECT NUMBER:	DRILLING DATE:				
★ ATLAS	Bellevue Way Cleaners	02-0266-A	11/18/2024				
GEOSCIENCES NW	DRILLING CONTRACTOR:	BORING DIAMETER:	WEATHER:				
	Holocene	2"	Rainy				
BORING/WELL ID:	DRILLING METHOD:	TOTAL DEPTH:	DEPTH TO WATER:				
BORING/WELL ID.	Direct Push	13'	N/A				
B 8	LOCATION:		LOGGED BY:				
	Bellevue, Washington	HS					
NOTES:							

NOTES:

Depth (feet)	USCS Soil Type/Graphic	Description	Interval and % Recovery	PID (vppm)	Sample ID	Well Construction
0 -	PAV	0'-0.25': Asphalt. 0.25'-6': Brown, fine sand, trace silt, moist, no sheen, no odor.		0	·	Temporary boring. Backfilled with bentonite.
-	SP		90	0		
5 -		6'-15': Brown, fine silty sand, moist, no sheen, no odor.		0	B8-4-5	
-	SM	ס- יס . שוטwוו, וווופ אוונץ אמווט, וווטואל, ווט אוופפוז, ווט טטטו.	100	0		
10 -		Becomes dry.		- 0	B8-9-10	
_				0.2	B8-10-11	
-			100	0	B8-12-13	
-					20.210	
15 -		Boring terminated at 15 feet, groundwater not encountered.		-		

· ·	PROJECT NAME:	PROJECT NUMBER:	DRILLING DATE:				
ATLAS	Bellevue Way Cleaners	02-0266-A	11/18/2024				
GEOSCIENCES NW	DRILLING CONTRACTOR:	BORING DIAMETER:	WEATHER:				
**	Holocene	2"	Rainy				
BORING/WELL ID:	DRILLING METHOD:	TOTAL DEPTH:	DEPTH TO WATER:				
BORING/WELL ID.	Direct Push	15'	N/A				
B9	LOCATION:		LOGGED BY:				
	Bellevue, Washington		HS				
NOTES:	NOTES:						
NOTES.							

O Depth (feet)	USCS Soil Type/Graphic	Description	Interval and % Recovery	PID (vppm)	Sample ID	Well Construction
0 -	PAV	0'-0.25': Asphalt. 0.25'-15': Brown, fine to medium silty sand, moist, no sheen, no odor.	90	0	·	Temporary boring. Backfilled with bentonite.
5 -	SM			0	B9-4-5	
-			100	0	B9-5-6	
10 -		Becomes dry.		0	B9-9-10	
-			100	0		
15 -		Boring terminated at 15 feet, groundwater not encountered.		0	B9-14-15	

	PROJECT NAME:	PROJECT NUMBER:	DRILLING DATE:
ATLAS	Bellevue Way Cleaners	02-0266-A	11/22/2024
GEOSCIENCES NW	DRILLING CONTRACTOR:	BORING DIAMETER:	WEATHER:
	AEC		Cloudy
BORING/WELL ID:	DRILLING METHOD:	TOTAL DEPTH:	DEPTH TO WATER:
	Sonic	35'	N/A
B10	LOCATION:	1	LOGGED BY:
•	Bellevue, Washington		RM

NOTES:

Depth (feet)	USCS Soil Type/Graphic		Interval and % Recovery	PID (vppm)		
pth (SS Sc e/Gra		Perval	<u>\</u>		
	S d	Description	#IT#	₫	Sample ID	Well Construction
0	PAV	0'-0.25': Asphalt. 0.25'-15': Brown, poorly sorted, fine to medium sandy	% Recovery	0.4		To an arrando de la Paul Cillada (de
-		silt with gravel, medium dense, dry, organic odor, no	not recorded.	0.4	B10-2	Temporary boring. Backfilled with bentonite.
_		sheen.				
-						
5 -				0.3		
				1.6	B10-6	
-						
-				0.1		
-						
10 -				0		
+				0.2		
-				0.2	B10-12	
-						
-						
15		15'-25': Brown, poorly sorted, fine to coarse sand with		0		
-		gravel, dry, medium dense, no odor, no sheen.		0.5		
-						
-	::::::::			0.2		
7						
20 -	SP			4	B10-20	
-				0.2		
1				0.5	B10-22	
1						
25					D40.05	
25 -		25'-35': Brown, fine to medium silty sand with gravel,	•	0.2	B10-25	
		poorly sorted, no sheen, no odor.		0		
				0		
	SM			0		
30 -				0.2	B10-30	
50				0.6	B10-30	
				0.0	2.001	
		Becomes fine to coarse grained.		0		
35 -		Design at terms in standard 25 feet, seemed at 25 feet		0.1	B10-35	
_		Boring terminated at 35 feet, groundwater not encountered.				
		553575				

	PROJECT NAME:	PROJECT NUMBER:	DRILLING DATE:
🚸 ATLAS	Bellevue Way Cleaners	02-0266-A	11/20/2024
GEOSCIENCES NW	DRILLING CONTRACTOR:	BORING DIAMETER:	WEATHER:
	AEC	6"	Clear
BORING/WELL ID:	DRILLING METHOD:	TOTAL DEPTH:	DEPTH TO WATER:
	Sonic	55'	38'
B11	LOCATION:		LOGGED BY:
	Bellevue, Washington		RM

NOTES:

(feet)	USCS Soil Type/Graphic		Interval and % Recovery	(mdc		
Depth (feet)	ype/Gr	Description	ıterva 5 Rec	PID (vppm)	Sample ID	Well Construction
	⊃ E	0'-0.25': Gravel.	_ ~ ~	П	Sample ID	TTOII CONSTITUTION
_		0.25'-49': Brown, fine to medium silty sand with	% Recovery			Temporary boring. Backfilled with bentonite.
-		gravel, loose, moist, poorly sorted, no sheen, no odor.	not recorded.	0.7	B11-4	bonome.
5 -				0.7		
_					B11-6	
_				0.8	B11-8 B11-9	
10 -				0.7		
_				0.9	B11-12	
-						
15 -				0.7	B11-15 B11-16	
_				0.3		
20 -	SM			0.6	B11-20	
-					B11-20	
_				0.7		
25 -				6.7	B11-25	
-				1.4		
-				1.3		
30 -				4.3	B11-30	
_				2.9 6.1	B11-32	
_						
35 -				0.5 0.7		
_				5.8	B11-37	
_		Becomes wet.				
40 -				0.5		
-				0.5		
-					B44 :-	
45 -		Black streak.		1.3 1.7	B11-45	
_		Black Stiedk.		0.5		
50 -		49'-55': Brown, fine to coarse sand, trace silt, loose,	-	2.7	B11-50	
50 -		moist, poorly sorted, no sheen, no odor.		0	B11-51	
_	SP			0		
55 -		Decimal and the SE Control	-	0	B11-55	
-		Boring terminated at 55 feet, temporary groundwater monitoring well installed, groundwater grab sample				
-		collected.				
	•					



APPENDIX B

Laboratory Analytical Reports and Sample Chain-of-Custody Forms



December 13, 2024

Megan Poysnick Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0266-A Laboratory Reference No. 2411-323B

Dear Megan:

Enclosed are the analytical results and associated quality control data for samples submitted on November 22, 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: December 13, 2024 Samples Submitted: November 22, 2024 Laboratory Reference: 2411-323B

Project: 02-0266-A

Case Narrative

Samples were collected on November 21, 2024 and received by the laboratory on November 22, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°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.

NWTPH-Gx Analysis

The gasoline result for sample B11 is attributed to a single peak (Tetrachloroethene).

The client requested the analysis of sample B11 after the holding time had expired.

There were no remaining VOA vials available for sample B11. The sample was therefore decanted from a 500 mL amber container into VOA vials in order to perform the requested analysis. Some loss of volatiles may have occurred.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: December 13, 2024 Samples Submitted: November 22, 2024 Laboratory Reference: 2411-323B

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B11					
Laboratory ID:	11-323-01					
Gasoline Range Organics	280	100	NWTPH-Gx	12-9-24	12-9-24	Z
Surrogate:	Percent Recovery	Control Limits				

Surrogate: Percent Recovery Control Limit Fluorobenzene 83 61-122

Date of Report: December 13, 2024 Samples Submitted: November 22, 2024 Laboratory Reference: 2411-323B

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analvzed	Flags
METHOD BLANK	Rooun		motriou	Порагоа	Analyzou	
Laboratory ID:	MB1209W1					
Gasoline	ND	100	NWTPH-Gx	12-9-24	12-9-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	104	61-122				

Analyte	Res	sult	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	11-27	77-04								
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Elucrobonzono						100 102	61 122			

Fluorobenzene 108 103 61-122



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.
- Z The gasoline result is attributed to a single peak (Tetrachloroethene).
- ND Not Detected at PQL
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference





Page	
_	
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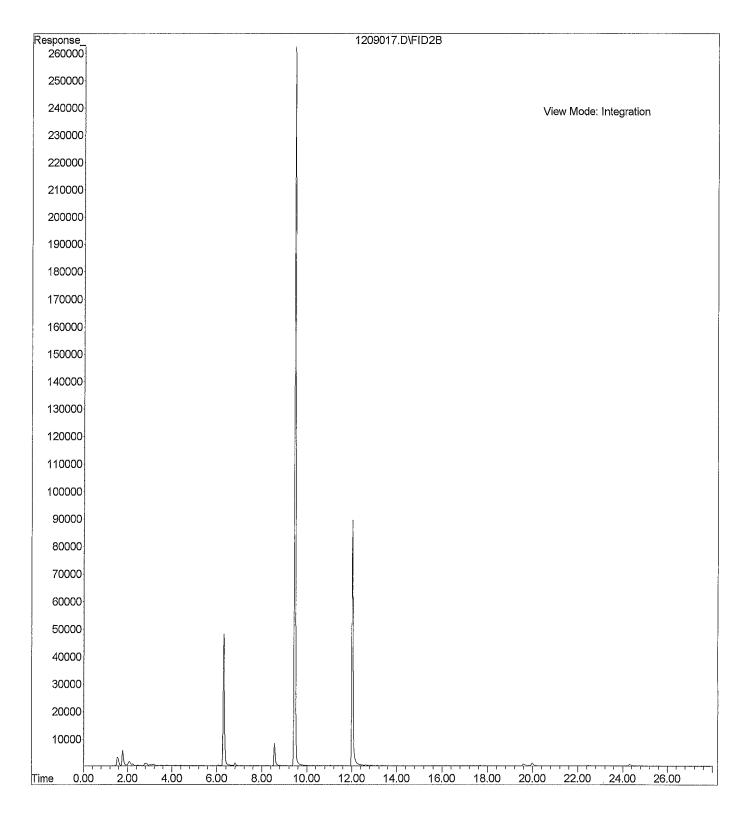
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Instrument: Hope Sample Name: 11-323-01b

Misc Info : FROM 500mL AMBER

Vial Number: 17





December 4, 2024

Megan Poysnick Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0266-A Laboratory Reference No. 2411-324

Dear Megan:

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

Laboratory Reference: 2411-324

Project: 02-0266-A

Case Narrative

Samples were collected on November 21, 2024 and received by the laboratory on November 22, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°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.

Laboratory Reference: 2411-324

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW10-11					
Laboratory ID:	11-324-03					
Gasoline	ND	5.6	NWTPH-Gx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	105	62-134				

Laboratory Reference: 2411-324

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx QUALITY CONTROL

Matrix: Soil

Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1127S1					
Gasoline	ND	5.0	NWTPH-Gx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	104	62-134				

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	11-28	34-20								
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										_
Fluorobenzene						90 104	62-134			

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Laboratory Reference: 2411-324

Project: 02-0266-A

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:	GMW10-11					
Laboratory ID:	11-324-03					
Diesel Fuel #2	49	28	NWTPH-Dx	11-27-24	11-27-24	
Lube Oil Range Organics	ND	55	NWTPH-Dx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	80	50-150				

Laboratory Reference: 2411-324

Project: 02-0266-A

DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Soil

Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						_
Laboratory ID:	MB1127S2					
Diesel Range Organics	ND	25	NWTPH-Dx	11-27-24	11-27-24	
Lube Oil Range Organics	ND	50	NWTPH-Dx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	86	50-150				

					Source	Perce	ent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recov	ery	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	11-34	10-08									
	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						81	75	50-150			

Laboratory Reference: 2411-324

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

Date Date	
Analyte Result PQL Method Prepared Analyzed	Flags
Client ID: GMW10-40	
Laboratory ID: 11-324-08	
Vinyl Chloride ND 0.0011 EPA 8260D 11-30-24 11-30-24	
(trans) 1,2-Dichloroethene ND 0.0011 EPA 8260D 11-30-24 11-30-24	
(cis) 1,2-Dichloroethene ND 0.0011 EPA 8260D 11-30-24 11-30-24	
1,2-Dichloroethane ND 0.0011 EPA 8260D 11-30-24 11-30-24	
Trichloroethene ND 0.0011 EPA 8260D 11-30-24 11-30-24	
Tetrachloroethene 0.030 0.0011 EPA 8260D 11-30-24 11-30-24	
Surrogate: Percent Recovery Control Limits	
Dibromofluoromethane 108 69-124	
Toluene-d8 99 80-118	
4-Bromofluorobenzene 101 75-123	
Client ID: GMW10-55	
Laboratory ID: 11-324-11	
Vinyl Chloride ND 0.0013 EPA 8260D 11-30-24 11-30-24	
(trans) 1,2-Dichloroethene ND 0.0013 EPA 8260D 11-30-24 11-30-24	
(cis) 1,2-Dichloroethene ND 0.0013 EPA 8260D 11-30-24 11-30-24	
1,2-Dichloroethane ND 0.0013 EPA 8260D 11-30-24 11-30-24	
Trichloroethene ND 0.0013 EPA 8260D 11-30-24 11-30-24	
Tetrachloroethene 0.014 0.0013 EPA 8260D 11-30-24 11-30-24	
Surrogate: Percent Recovery Control Limits	
Dibromofluoromethane 110 69-124	
Toluene-d8 100 80-118	
4-Bromofluorobenzene 103 75-123	
Client ID: GMW11-22	
Laboratory ID: 11-324-16	
Vinyl Chloride ND 0.0010 EPA 8260D 11-30-24 11-30-24	
(trans) 1,2-Dichloroethene ND 0.0010 EPA 8260D 11-30-24 11-30-24	
(cis) 1,2-Dichloroethene ND 0.0010 EPA 8260D 11-30-24 11-30-24	
1,2-Dichloroethane ND 0.0010 EPA 8260D 11-30-24 11-30-24	
Trichloroethene ND 0.0010 EPA 8260D 11-30-24 11-30-24	
Tetrachloroethene ND 0.0010 EPA 8260D 11-30-24 11-30-24	
Surrogate: Percent Recovery Control Limits	
Dibromofluoromethane 110 69-124	
Toluene-d8 99 80-118	
4-Bromofluorobenzene 101 75-123	

Laboratory Reference: 2411-324

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW11-55					
Laboratory ID:	11-324-23					
Vinyl Chloride	ND	0.0012	EPA 8260D	11-30-24	11-30-24	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-30-24	11-30-24	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-30-24	11-30-24	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	11-30-24	11-30-24	
Trichloroethene	ND	0.0012	EPA 8260D	11-30-24	11-30-24	
Tetrachloroethene	0.035	0.0012	EPA 8260D	11-30-24	11-30-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	111	69-124				
Toluene-d8	99	80-118				
4-Bromofluorobenzene	104	75-123				

Laboratory Reference: 2411-324

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D QUALITY CONTROL

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1130S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
Trichloroethene	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	105	69-124				
Toluene-d8	99	80-118				
4-Bromofluorobenzene	101	75-123				

					Per	cent	Recovery		RPD	
Analyte	Res	ult	Spike	Level	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB11	30S1								
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	0.0483	0.0471	0.0500	0.0500	97	94	52-141	3	20	
(trans) 1,2-Dichloroethene	0.0529	0.0526	0.0500	0.0500	106	105	74-131	1	15	
(cis) 1,2-Dichloroethene	0.0542	0.0535	0.0500	0.0500	108	107	71-136	1	15	
1,2-Dichloroethane	0.0536	0.0531	0.0500	0.0500	107	106	70-133	1	15	
Trichloroethene	0.0552	0.0545	0.0500	0.0500	110	109	80-130	1	15	
Tetrachloroethene	0.0574	0.0577	0.0500	0.0500	115	115	80-130	1	15	
Surrogate:										_
Dibromofluoromethane					101	103	69-124			
Toluene-d8					98	98	80-118			
4-Bromofluorobenzene					101	102	75-123			

Laboratory Reference: 2411-324 Project: 02-0266-A

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
GMW10-11	11-324-03	9	11-27-24
GMW10-40	11-324-08	10	11-27-24
GMW10-55	11-324-11	27	11-27-24
GMW11-22	11-324-16	8	11-27-24
GMW11-55	11-324-23	20	11-27-24



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.

Z -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference



Environmental Inc. Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052

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December 5, 2024

Megan Poysnick Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0266-A Laboratory Reference No. 2411-342

Dear Megan:

Enclosed are the analytical results and associated quality control data for samples submitted on November 25, 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

Laboratory Reference: 2411-342

Project: 02-0266-A

Case Narrative

Samples were collected on November 22, 2024 and received by the laboratory on November 25, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°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.

Volatiles EPA 8260D Analysis

The MTCA Method A cleanup levels for Trichloroethene and Tetrachloroethene are not achievable for sample GMW13-22 due to the necessary dilution of the sample.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Laboratory Reference: 2411-342

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW13-5					
Laboratory ID:	11-342-11					
Gasoline	ND	5.5	NWTPH-Gx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	106	62-134				
Client ID:	GMW13-22					
Laboratory ID:	11-342-18					
Gasoline	3400	55	NWTPH-Gx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	119	62-134				

Laboratory Reference: 2411-342

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx QUALITY CONTROL

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1127S1					
Gasoline	ND	5.0	NWTPH-Gx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits	_	_		
Fluorobenzene	104	62-134				

Analyte	Res	sult	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	11-28	34-20								
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						90 104	62-134			

Laboratory Reference: 2411-342

Project: 02-0266-A

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:	B10-31					
Laboratory ID:	11-342-09					
Diesel Range Organics	ND	26	NWTPH-Dx	11-27-24	11-27-24	
Lube Oil Range Organics	ND	53	NWTPH-Dx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	79	50-150				
Client ID:	B10-35					
Laboratory ID:	11-342-10					
Diesel Range Organics	ND	28	NWTPH-Dx	11-27-24	11-27-24	
Lube Oil Range Organics	ND	57	NWTPH-Dx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	85	50-150				
Client ID:	GMW13-5					
Laboratory ID:	11-342-11					
Diesel Range Organics	ND	27	NWTPH-Dx	11-27-24	11-27-24	
Lube Oil Range Organics	ND	55	NWTPH-Dx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	86	50-150				
Client ID:	GMW13-22					
Laboratory ID:	11-342-18					
Diesel Fuel #2	540	28	NWTPH-Dx	11-27-24	11-27-24	
Lube Oil Range Organics	ND	56	NWTPH-Dx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	91	50-150				

Laboratory Reference: 2411-342

Project: 02-0266-A

DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Soil

Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1127S2					
Diesel Range Organics	ND	25	NWTPH-Dx	11-27-24	11-27-24	
Lube Oil Range Organics	ND	50	NWTPH-Dx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	86	50-150				

					Source	Perc	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Reco	very	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	11-34	10-08									
	ORIG	DUP									
Diesel Range	ND	ND	NA	NA		N.	A	NA	NA	40	
Lube Oil Range	ND	ND	NA	NA		N.	Α	NA	NA	40	
Surrogate:											<u> </u>
o-Terphenyl						81	75	50-150			

Laboratory Reference: 2411-342

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

Offits. Hig/kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B10-31			•		
Laboratory ID:	11-342-09					
Vinyl Chloride	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
Trichloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	107	69-124				
Toluene-d8	100	80-118				
4-Bromofluorobenzene	104	75-123				
Client ID:	GMW13-5					
Laboratory ID:	11-342-11					
Vinyl Chloride	ND	0.0011	EPA 8260D	12-2-24	12-2-24	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	12-2-24	12-2-24	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	12-2-24	12-2-24	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	12-2-24	12-2-24	
Trichloroethene	ND	0.0011	EPA 8260D	12-2-24	12-2-24	
Tetrachloroethene	ND	0.0011	EPA 8260D	12-2-24	12-2-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	106	69-124				
Toluene-d8	99	80-118				
4-Bromofluorobenzene	103	75-123				
Client ID:	GMW13-22					
Laboratory ID:	11-342-18					
Vinyl Chloride	ND	0.056	EPA 8260D	12-3-24	12-3-24	
(trans) 1,2-Dichloroethene	ND	0.056	EPA 8260D	12-3-24	12-3-24	
(cis) 1,2-Dichloroethene	ND	0.056	EPA 8260D	12-3-24	12-3-24	
1,2-Dichloroethane	ND	0.056	EPA 8260D	12-3-24	12-3-24	
Trichloroethene	ND	0.056	EPA 8260D	12-3-24	12-3-24	
Tetrachloroethene	ND	0.056	EPA 8260D	12-3-24	12-3-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	88	69-124				
Toluene-d8	99	80-118				
4-Bromofluorobenzene	101	75-123				

Laboratory Reference: 2411-342

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW13-65					
Laboratory ID:	11-342-28					
Vinyl Chloride	ND	0.0014	EPA 8260D	12-2-24	12-2-24	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	12-2-24	12-2-24	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	12-2-24	12-2-24	
1,2-Dichloroethane	ND	0.0014	EPA 8260D	12-2-24	12-2-24	
Trichloroethene	ND	0.0014	EPA 8260D	12-2-24	12-2-24	
Tetrachloroethene	ND	0.0014	EPA 8260D	12-2-24	12-2-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	69-124				
Toluene-d8	100	80-118				
4-Bromofluorobenzene	104	75-123				

Laboratory Reference: 2411-342

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D QUALITY CONTROL

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1202S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
Trichloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	106	69-124				
Toluene-d8	99	80-118				
4-Bromofluorobenzene	102	75-123				
Laboratory ID:	MB1203S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	12-3-24	12-3-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-3-24	12-3-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-3-24	12-3-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	12-3-24	12-3-24	
Trichloroethene	ND	0.0010	EPA 8260D	12-3-24	12-3-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	12-3-24	12-3-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	95	69-124				
Toluene-d8	102	80-118				
4-Bromofluorobenzene	107	75-123				

Laboratory Reference: 2411-342

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D QUALITY CONTROL

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Reco	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB12	02S1								
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	0.0510	0.0501	0.0500	0.0500	102	100	52-141	2	20	
(trans) 1,2-Dichloroethene	0.0542	0.0542	0.0500	0.0500	108	108	74-131	0	15	
(cis) 1,2-Dichloroethene	0.0557	0.0548	0.0500	0.0500	111	110	71-136	2	15	
1,2-Dichloroethane	0.0573	0.0560	0.0500	0.0500	115	112	70-133	2	15	
Trichloroethene	0.0539	0.0558	0.0500	0.0500	108	112	80-130	3	15	
Tetrachloroethene	0.0556	0.0571	0.0500	0.0500	111	114	80-130	3	15	
Surrogate:										
Dibromofluoromethane					106	104	69-124			
Toluene-d8					100	98	80-118			
4-Bromofluorobenzene					103	103	75-123			
Laboratory ID:	SB12	03S1								
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	0.0551	0.0531	0.0500	0.0500	110	106	52-141	4	20	
(trans) 1,2-Dichloroethene	0.0505	0.0488	0.0500	0.0500	101	98	74-131	3	15	
(cis) 1,2-Dichloroethene	0.0510	0.0500	0.0500	0.0500	102	100	71-136	2	15	
1,2-Dichloroethane	0.0481	0.0480	0.0500	0.0500	96	96	70-133	0	15	
Trichloroethene	0.0536	0.0520	0.0500	0.0500	107	104	80-130	3	15	
Tetrachloroethene	0.0526	0.0525	0.0500	0.0500	105	105	80-130	0	15	
Surrogate:										
Dibromofluoromethane					96	96	69-124			
Toluene-d8					102	100	80-118			
4-Bromofluorobenzene					107	104	75-123			

Laboratory Reference: 2411-342 Project: 02-0266-A

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
B10-31	11-342-09	5	11-27-24
B10-35	11-342-10	12	11-27-24
GMW13-5	11-342-11	8	11-27-24
GMW13-22	11-342-18	10	11-27-24
GMW13-65	11-342-28	23	11-27-24



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.

Z -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference



Environmental Inc. Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052

Chain of Custody

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matograms with final report \(\frac{1}{2} \) Electronic Data		Reviewed/Date	Reviewed/Date
Data Package: Standard X evel III evel IV			Received
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of higher 11 popper (2)	11/2/m 12x		Received
	1/65/24 1255	Modes	Relinquished
NC 1,27XA	11/25/24 1954	Sply	Received
A PRE, TE, CIS HVOUS	11/25/24 0954	Alle	Relinquished College Hours
Comments/Special Instructions	Date Time	Company	Signature
	(×)	A 1301 A F	& GMM 12-35 B10-35
	8	1259	9 GHMW 2-31 \$70-31
-		1257	8 PHATZ-30 \$10-30
-		1255	7 GAMWIZ 21 810-27
		1294	6 GMMIZ - 25 \$10-25
		11241	S GMW12-22 20-22
-		1236	4 GMM12-20 BIO- 20
•		1233	3 GANTO-12 750-12
	ř	1222	2 GMM12-6 \$10-Q
		11/22 1219 8 5	- GHANNIZ- 2- \$10-2
Semive (with le PAHs & PCBs Organo Organo Chlorir Total R Total M TCLP M	NWTP NWTP Volatile Haloge	OF STREET	Lab ID Sample Identification
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8270/Slat PAHs) IM (Iow- ne Pesti shorus P scid Heri	STEX (80	Containe	Project Manager: Mtgan Poysnick, Liz Radhman
level) cides 80 esticides	n-up □;	Standard (7 Days)	Froject Name: Bellewire Way Cleaners
081 es 8270	Æ)	2 Days 3 Days	02-0266-A
/SIM		Same Day 1 Day	Project Number
		(Check One)	Phone: (425) 883-3881 • www.onsite-env.com
11-342	Laboratory Number:	Turnaround Request (in working days)	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052



Chain of Custody

Page Z of 3

Deviewed/Date		Received	Relinquished	Heceived) Jan	Relinquished	Received 1°C	Relinquished CONSTRUCTION CONTROL CONT	Signature	20 6MW 13-27	19 CMW 13-25	-	17 GMW 13-20	0	5MW 13-	14 BME 13-10	EMW	2 GMW 13-6	1 GMW 13-5	Lab ID Sample Identification	EUTH NEWDYDL	Megan Poysinick, Liz Ruchmun	Bellevue Way Clouners	Project Name:	Project Number: Project Number:	Company:	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883–3881 • www.onsite-any.com
Reviewed/Date				N OFF	Down))	Track.	4)25	Company	1431 V.	1434	1428	1410	14 08	1405	1352	1550	1348	11/22 1346 5	Date Time Sampled Sampled Matrix	(other)		Standard (7 Days)	2 Days 3 Days	Same Day 1 Day	(Check One)	Turnaround Request (in working days)
				11/2000 1258	11/26/24/285		11/25/11 Part	HS&O HZ&Z/11	Date Time			88				4			\$ \overline{\pi}	NWTPI NWTPI NWTPI Volatile Haloge	H-HCIE H-Gx/E H-Gx H-Dx (Ses 8260	STEX (80	021 8 021 8 021 8 021 8	X			Laboratory Number:
Chromatograms with final report M. Electronic Data Deliverables (EDDs) M.	Data Package: Standard 🖳 Level III 🗆 Level IV 🗆					N.			Comments/Special Instructions			2								(with lo PAHs 8 PCBs 8 Organo	ow-leve 3270/SI 3082 ochlorin ophosph ated Ac CRA Mi TCA Mi Metals il and g	M (low- e Pestion norus Po cid Herb etals	level) cides 80 esticide	s 8270	//SIM		11-342



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ueviewed/ Date		Received	Relinquished	Heceived	W	Relinquished	Received 1.0	Relinquished The Relinquished	Signature	2.		8 GMW 13-65	27 GMW 13-61	6 6MW 13-60	25 (5 MW 13-5)	7 GMW13-50	3 GMW 13-45	SMW	21 Gow 13-36	Lab ID Sample Identification	Ruth ragioner	Meyoun Polysnick, Liz Rouch man	Project Manager: BELLEVILY WOW) She owners	02-0266-A	Project Number:		Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3884
Reviewed/Date				100 P	A8084		RES.	4)8	Company	4	 2	6191	1624	1604	1542	1524	1807) 1505)	11/22 1455 S	Date Time Sampled Sampled Matrix	(other)		Standard (7 Days)	2 Days 3 Days	Same Day 1 Day	(Check One)	Turnaround Request (in working days)
				11/es/204 1/08K	11/25/24 /255	1000	11/20/20/1954	4560 hz/sz/1,1	Date Time		(8							J	NWTPI NWTPI NWTPI Volatile Haloge	H-HCII H-Gx/E H-Gx H-Dx (Ses 8260 nated	SG Clea	021 83 6n-up () 6 8260 (rs Only)				Laboratory Number:
Chromatograms with final report N Electronic Data Deliverables (EDDs)	Data Package: Standard 🕅 Level III 🗌 Level IV 🗍		I,						Comments/Special Instructions			0								Semivo (with lo PAHs 8 PCBs 8 Organo	olatiles w-leve 270/SI	8270/SI I PAHs) M (low- ne Pestic horus Pi cid Hert etals	iM level) cides 80 esticides bicides 8	8270	/SIM	4	11-342

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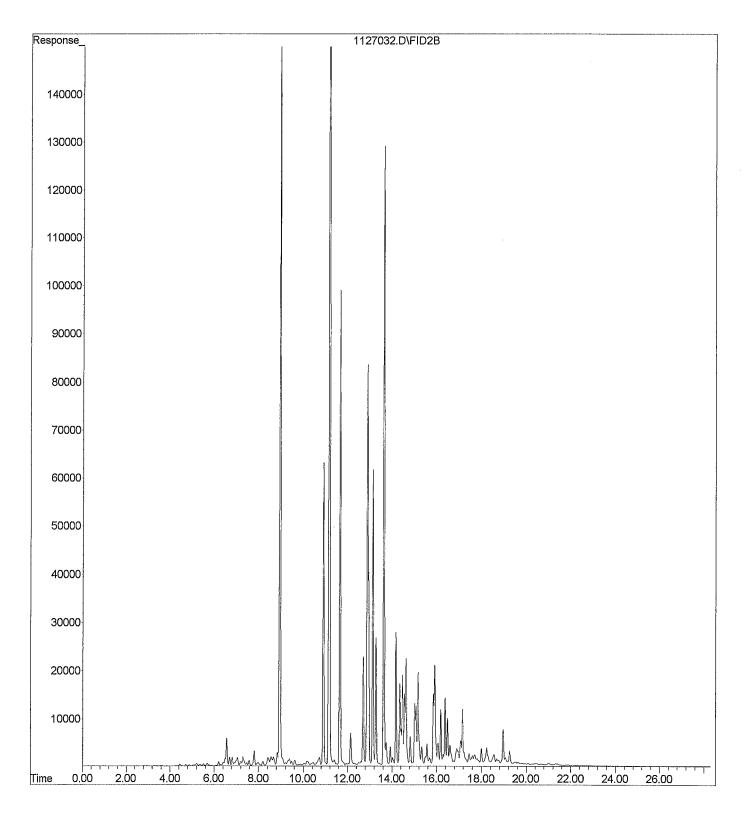
Operator

Acquired: 28 Nov 2024 6:49 using AcqMethod 241025S.M

Instrument : Daryl

Sample Name: 11-342-18s 1:500

Misc Info : Vial Number: 32

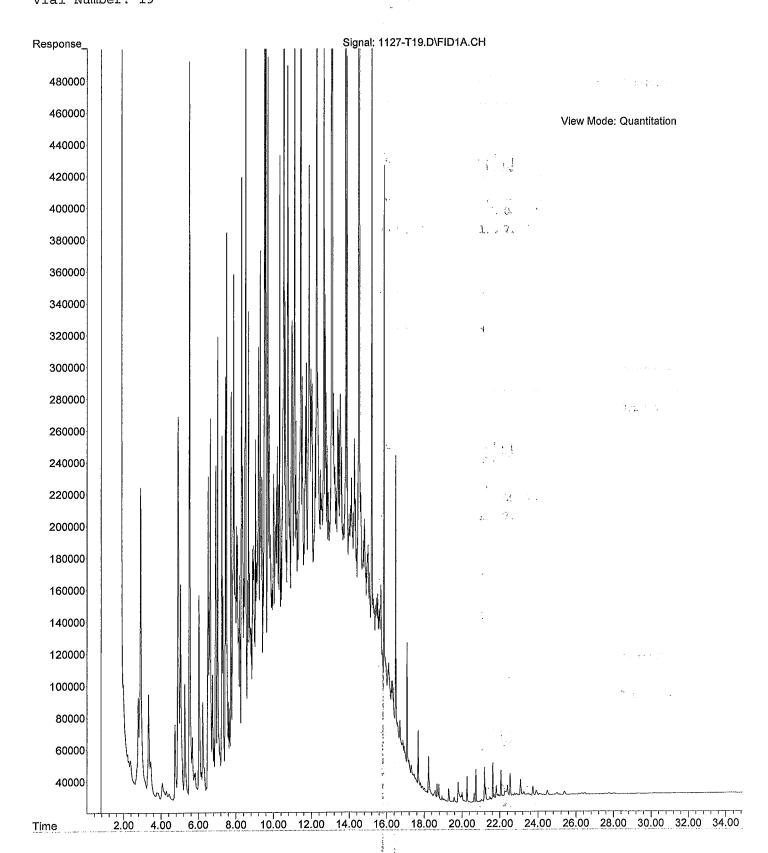


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Operator : LW

Acquired : 27 Nov 2024 22:19 using AcqMethod T231127F.M

Instrument: Teri
Sample Name: 11-342-18
Misc Info: Sample
Vial Number: 19





December 12, 2024

Megan Poysnick Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0266-A Laboratory Reference No. 2412-053

Dear Megan:

Enclosed are the analytical results and associated quality control data for samples submitted on December 5, 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

Project: 02-0266-A

Case Narrative

Samples were collected on December 3 and 4, 2024 and received by the laboratory on December 5, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°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.

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW13					
Laboratory ID:	12-053-04					
Gasoline	510	100	NWTPH-Gx	12-9-24	12-9-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	61-122				

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx QUALITY CONTROL

Analyto	Popult	PQL	Mothod	Date	Date	Elogo
Analyte METHOD BLANK	Result	PQL	Method	Prepared	Analyzed	Flags
_	MD4200M/4					
Laboratory ID:	MB1209W1					
Gasoline	ND	100	NWTPH-Gx	12-9-24	12-9-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	104	61-122				

Analyte	Res	sulf	Spike	l evel	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE	T(C)	Juit	Оріке	Levei	Result	Recovery	Lillits	INI D	Liiiiit	i iags
Laboratory ID:	11-27	77-04								
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate: Fluorobenzene						108 103	61-122			

97

Laboratory Reference: 2412-053

Project: 02-0266-A

DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx

Matrix: Water Units: ug/L (ppb)

o-Terphenyl

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GMW13					
Laboratory ID:	12-053-04					
Diesel Range Organics	ND	200	NWTPH-Dx	12-6-24	12-9-24	
Lube Oil Range Organics	ND	200	NWTPH-Dx	12-6-24	12-9-24	
Surrogate:	Percent Recovery	Control Limits				

50-150

Laboratory Reference: 2412-053

Project: 02-0266-A

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:	MB1206W1					
Diesel Range Organics	ND	150	NWTPH-Dx	12-6-24	12-6-24	
Lube Oil Range Organics	ND	150	NWTPH-Dx	12-6-24	12-6-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	126	50-150				

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	SB12	06W1								
	ORIG	DUP								
Diesel Fuel #2	516	470	NA	NA		NA	NA	9	40	
Surrogate:										

o-Terphenyl 110 110 50-150

Laboratory Reference: 2412-053

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

Matrix: Water Units: ug/L

Offits. ug/L				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW7					
Laboratory ID:	12-053-01					
Vinyl Chloride	ND	1.0	EPA 8260D	12-9-24	12-9-24	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	12-9-24	12-9-24	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	12-9-24	12-9-24	
Trichloroethene	ND	1.0	EPA 8260D	12-9-24	12-9-24	
1,1,2-Trichloroethane	ND	1.0	EPA 8260D	12-9-24	12-9-24	
Tetrachloroethene	150	1.0	EPA 8260D	12-9-24	12-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	106	68-133				
Toluene-d8	100	79-123				
4-Bromofluorobenzene	92	78-117				
Client ID:	GMW5					
Laboratory ID:	12-053-02					
Vinyl Chloride	ND	1.0	EPA 8260D	12-9-24	12-9-24	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	12-9-24	12-9-24	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	12-9-24	12-9-24	
Trichloroethene	ND	1.0	EPA 8260D	12-9-24	12-9-24	
1,1,2-Trichloroethane	ND	1.0	EPA 8260D	12-9-24	12-9-24	
Tetrachloroethene	160	1.0	EPA 8260D	12-9-24	12-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	108	68-133				
Toluene-d8	100	79-123				
4-Bromofluorobenzene	94	78-117				
Client ID:	GMW8					
Laboratory ID:	12-053-03					
Vinyl Chloride	ND	1.0	EPA 8260D	12-9-24	12-9-24	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	12-9-24	12-9-24	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	12-9-24	12-9-24	
Trichloroethene	1.2	1.0	EPA 8260D	12-9-24	12-9-24	
1,1,2-Trichloroethane	ND	1.0	EPA 8260D	12-9-24	12-9-24	
Tetrachloroethene	270	2.0	EPA 8260D	12-11-24	12-11-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	113	68-133				
Toluene-d8	100	79-123				
4-Bromofluorobenzene	94	78-117				

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW13					
Laboratory ID:	12-053-04					
Vinyl Chloride	ND	1.0	EPA 8260D	12-9-24	12-9-24	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	12-9-24	12-9-24	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	12-9-24	12-9-24	
Trichloroethene	ND	1.0	EPA 8260D	12-9-24	12-9-24	
1,1,2-Trichloroethane	ND	1.0	EPA 8260D	12-9-24	12-9-24	
Tetrachloroethene	150	1.0	EPA 8260D	12-9-24	12-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	108	68-133				
Toluene-d8	99	79-123				
4-Bromofluorobenzene	93	78-117				

Laboratory Reference: 2412-053

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D QUALITY CONTROL

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1209W1					
Vinyl Chloride	ND	0.20	EPA 8260D	12-9-24	12-9-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
Trichloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-9-24	12-9-24	
Tetrachloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	104	68-133				
Toluene-d8	100	79-123				
4-Bromofluorobenzene	92	78-117				
Laboratory ID:	MB1211W1					
Vinyl Chloride	ND	0.20	EPA 8260D	12-11-24	12-11-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-11-24	12-11-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-11-24	12-11-24	
Trichloroethene	ND	0.20	EPA 8260D	12-11-24	12-11-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-11-24	12-11-24	
Tetrachloroethene	ND	0.20	EPA 8260D	12-11-24	12-11-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	68-133				
Toluene-d8	100	79-123				
4-Bromofluorobenzene	96	78-117				

Laboratory Reference: 2412-053

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D QUALITY CONTROL

Matrix: Water Units: ug/L

					Source	Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-11	15-01									
	MS	MSD	MS	MSD		MS	MSD				
Vinyl Chloride	10.3	10.3	10.0	10.0	ND	103	103	62-121	0	15	
(trans) 1,2-Dichloroethene	8.99	8.64	10.0	10.0	ND	90	86	79-120	4	16	
(cis) 1,2-Dichloroethene	9.01	8.88	10.0	10.0	ND	90	89	81-128	1	16	
Trichloroethene	9.32	8.97	10.0	10.0	ND	93	90	80-130	4	12	
1,1,2-Trichloroethane	11.4	10.4	10.0	10.0	ND	114	104	76-126	9	16	
Tetrachloroethene	11.0	10.4	10.0	10.0	ND	110	104	84-126	6	19	
Surrogate:											
Dibromofluoromethane						101	102	68-133			
Toluene-d8						101	101	79-123			
4-Bromofluorobenzene						98	98	78-117			
SPIKE BLANKS											
Laboratory ID:	SB12	09W1									
	SB	SBD	SB	SBD		SB	SBD				
Vinyl Chloride	8.36	8.20	10.0	10.0		84	82	67-130	2	15	
(trans) 1,2-Dichloroethene	8.27	8.48	10.0	10.0		83	85	77-125	3	15	
(cis) 1,2-Dichloroethene	8.69	8.78	10.0	10.0		87	88	78-130	1	15	
Trichloroethene	8.91	8.56	10.0	10.0		89	86	80-126	4	15	
1,1,2-Trichloroethane	10.7	10.6	10.0	10.0		107	106	80-124	1	15	
Tetrachloroethene	11.1	10.8	10.0	10.0		111	108	80-125	3	15	
Surrogate:											
Dibromofluoromethane						100	104	68-133			
Toluene-d8						101	98	79-123			
4-Bromofluorobenzene						97	97	78-117			



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.

Z -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference



Onsite Environmental Inc. Analytical Laboratory Testing Services

Chain of Custody

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Reviewed/Date	Received	Relinquished	Received Halam Pi	Relinquished	Received	Relinquished	Signature	*			4 GMW13	3 6MW8	2 GMWS	1 GHW7	Lab ID Sample Identification	Sampled by: RM r maguna (a othraponu-com	Megan Poysnick LIZ Cachine	Project Name: BELLEVIL WE WELL CLEANERS	32.0246.4	Project Number		Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052
Reviewed/Date			ell 1055	an soly	Mes Str	Attas Geocciennes Nin	Company				12/4 1039 made	12/2 1422 water	12/5 1135 Waser	12/3 930 water	Date Time Sampled Sampled Matrix	/NW-COM (other)	The state of	Standard (7 Days)	2 Days 3 Days	Same Day 1 Day	/.com (Check One)	Turnaround Request (in working days)
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Chromatograms with final report X Electronic Data Deliverables (EDDs)X	Data Package: Standard ※ Level III □ Level IV □	1,1,2-704.	Sea Standard	1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-		Comments/Special Instructions								(with lot PAHs & PCBs Organo Organo Chlorir Total FI Total M TCLP I	pw-leve 3270/SI 8082 pochlorin pphosp nated A GCRA M MTCA M Wetals	horus F cid Her etals	cides 80 Pesticides	s 8270	/SIM		: 12-053

File : X:\BTEX\HOPE\DATA\H241209\1209007.D

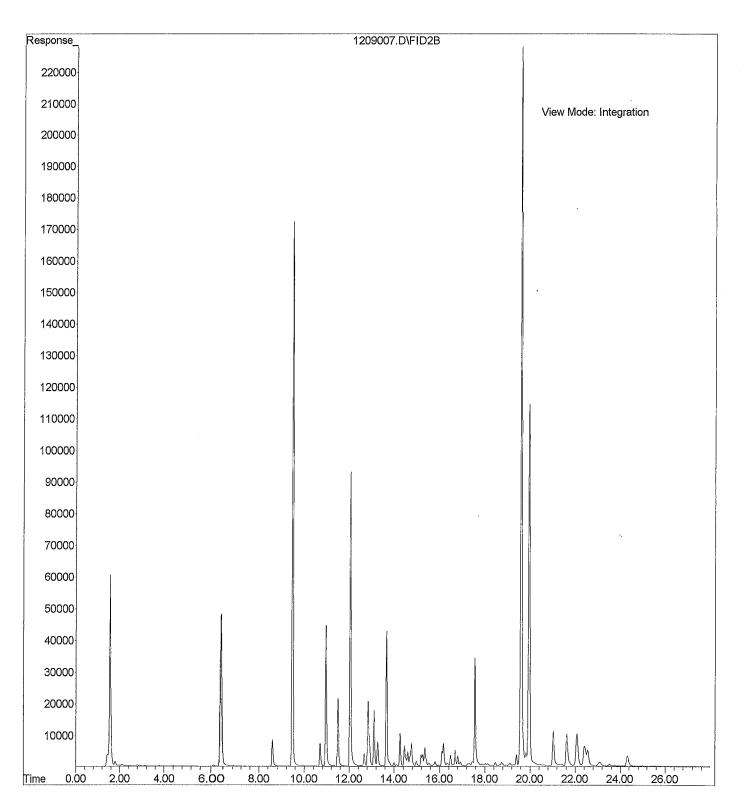
Operator

Acquired: 9 Dec 2024 14:47 using AcqMethod 241025SH.M

Instrument: Hope

Sample Name: $12 - 0\bar{5}3 - 04e$

Misc Info : Vial Number: 7





December 13, 2024

Megan Poysnick Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0266-A Laboratory Reference No. 2412-090

Dear Megan:

Enclosed are the analytical results and associated quality control data for samples submitted on December 6, 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

Project: 02-0266-A

Case Narrative

Samples were collected on December 2, 2024 and received by the laboratory on December 6, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°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.

NWTPH-Gx Analysis

The gasoline result for sample GMW10 is attributed to a single peak (Tetrachloroethene).

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW11					
Laboratory ID:	12-090-01					
Gasoline	ND	100	NWTPH-Gx	12-9-24	12-9-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	82	61-122				
Client ID:	GMW10					
Laboratory ID:	12-090-04					
Gasoline Range Organics	200	100	NWTPH-Gx	12-9-24	12-9-24	Z
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	110	61-122				

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx QUALITY CONTROL

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK				-	-	
Laboratory ID:	MB1209W1					
Gasoline	ND	100	NWTPH-Gx	12-9-24	12-9-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	104	61-122				

Analyte	Res	sult	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	11-27	77-04								
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate: Fluorobenzene						108 103	61-122			

Project: 02-0266-A

DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW11					
Laboratory ID:	12-090-01					
Diesel Range Organics	ND	220	NWTPH-Dx	12-12-24	12-12-24	
Lube Oil Range Organics	ND	220	NWTPH-Dx	12-12-24	12-12-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	94	50-150				
Client ID:	GMW10					
Laboratory ID:	12-090-04					
Diesel Range Organics	ND	220	NWTPH-Dx	12-12-24	12-12-24	
Lube Oil Range Organics	ND	220	NWTPH-Dx	12-12-24	12-12-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	100	50-150				

Project: 02-0266-A

DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1212W1					
Diesel Range Organics	ND	160	NWTPH-Dx	12-12-24	12-12-24	
Lube Oil Range Organics	ND	160	NWTPH-Dx	12-12-24	12-12-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	106	50-150				

					Source	Perd	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Reco	very	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	12-09	90-01									
	ORIG	DUP									
Diesel Range	ND	ND	NA	NA		N	Α	NA	NA	40	
Lube Oil Range	ND	ND	NA	NA		N	Α	NA	NA	40	
Surrogate:											
o-Terphenyl						94	95	50-150			

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

Matrix: Water Units: ug/L

Offits. ug/L				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW11	•		•	•	
Laboratory ID:	12-090-01					
Vinyl Chloride	ND	0.20	EPA 8260D	12-9-24	12-9-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
Trichloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-9-24	12-9-24	
Tetrachloroethene	1.3	0.20	EPA 8260D	12-9-24	12-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	107	68-133				
Toluene-d8	101	79-123				
4-Bromofluorobenzene	96	78-117				
Client ID:	GMW4					
Laboratory ID:	12-090-02					
Vinyl Chloride	ND	0.20	EPA 8260D	12-9-24	12-9-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
Trichloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-9-24	12-9-24	
Tetrachloroethene	2.7	0.20	EPA 8260D	12-9-24	12-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	108	68-133				
Toluene-d8	100	79-123				
4-Bromofluorobenzene	93	78-117				
Client ID:	GMW6					
Laboratory ID:	12-090-03					
Vinyl Chloride	ND	0.20	EPA 8260D	12-9-24	12-9-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
Trichloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-9-24	12-9-24	
Tetrachloroethene	19	0.20	EPA 8260D	12-9-24	12-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	111	68-133				
Toluene-d8	100	79-123				
4-Bromofluorobenzene	93	78-117				

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW10					
Laboratory ID:	12-090-04					
Vinyl Chloride	ND	1.0	EPA 8260D	12-9-24	12-9-24	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	12-9-24	12-9-24	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	12-9-24	12-9-24	
Trichloroethene	ND	1.0	EPA 8260D	12-9-24	12-9-24	
1,1,2-Trichloroethane	ND	1.0	EPA 8260D	12-9-24	12-9-24	
Tetrachloroethene	200	1.0	EPA 8260D	12-9-24	12-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	107	68-133				
Toluene-d8	101	79-123				
4-Bromofluorobenzene	93	78-117				

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D QUALITY CONTROL

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						_
Laboratory ID:	MB1209W1					
Vinyl Chloride	ND	0.20	EPA 8260D	12-9-24	12-9-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
Trichloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-9-24	12-9-24	
Tetrachloroethene	ND	0.20	EPA 8260D	12-9-24	12-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	104	68-133				
Toluene-d8	100	79-123				
4-Bromofluorobenzene	92	78-117				

					Per	cent	Recovery		RPD	
Analyte	Result		Spike Level		Rec	Recovery		RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB120	09W1								
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	8.36	8.20	10.0	10.0	84	82	67-130	2	15	
(trans) 1,2-Dichloroethene	8.27	8.48	10.0	10.0	83	85	77-125	3	15	
(cis) 1,2-Dichloroethene	8.69	8.78	10.0	10.0	87	88	78-130	1	15	
Trichloroethene	8.91	8.56	10.0	10.0	89	86	80-126	4	15	
1,1,2-Trichloroethane	10.7	10.6	10.0	10.0	107	106	80-124	1	15	
Tetrachloroethene	11.1	10.8	10.0	10.0	111	108	80-125	3	15	
Surrogate:										
Dibromofluoromethane					100	104	68-133			
Toluene-d8					101	98	79-123			
4-Bromofluorobenzene					97	97	78-117			



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.
- Z The gasoline result is attributed to a single peak (Tetrachloroethene).
- ND Not Detected at PQL
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference



OnSite Environ

Chain of Custody

	Pews	negoun Paysnick, Liz Kachman	Bellevine Way Cleaners	12-0766-A	-las chesscheras NW	Fibria, (423) 003-3001 - www.disite-env.com	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052	Environmental Inc.
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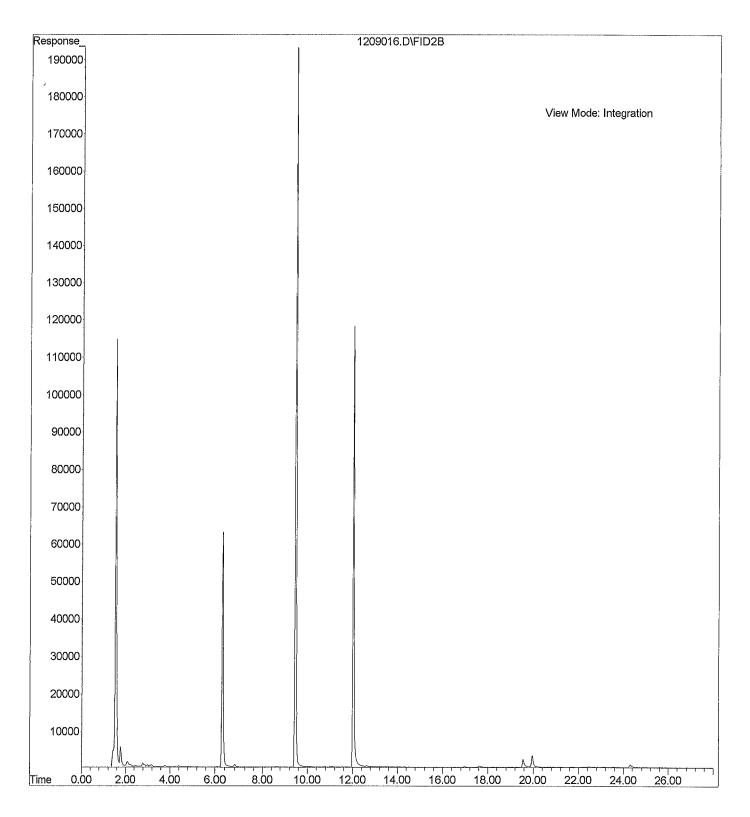
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Operator

Acquired: 9 Dec 2024 21:04 using AcqMethod 241025SH.M

Instrument: Hope Sample Name: 12-090-04e

Misc Info : Vial Number: 16





February 20, 2025

Megan Poysnick Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0266-A Laboratory Reference No. 2502-109

Dear Megan:

Enclosed are the analytical results and associated quality control data for samples submitted on February 11, 2025.

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

Project: 02-0266-A

Case Narrative

Samples were collected on February 10, 2025 and received by the laboratory on February 11, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°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.

Laboratory Reference. 23

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW9-28					
Laboratory ID:	02-109-06					
Gasoline	ND	5.8	NWTPH-Gx	2-13-25	2-13-25	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	95	62-134				

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx QUALITY CONTROL

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0213S1					
Gasoline	ND	5.0	NWTPH-Gx	2-13-25	2-13-25	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	62-134				

Analyte	Res	sult	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	02-10	9-06								
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate: Fluorobenzene						95 96	62-134			

Date of Report: February 20, 2025 Samples Submitted: February 11, 2025

Laboratory Reference: 2502-109

Project: 02-0266-A

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:	GMW9-28					_
Laboratory ID:	02-109-06					
Diesel Range Organics	ND	28	NWTPH-Dx	2-13-25	2-13-25	_
Lube Oil Range Organics	ND	56	NWTPH-Dx	2-13-25	2-13-25	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	70	50-150				

Project: 02-0266-A

DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Soil

Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0213S1					
Diesel Range Organics	ND	25	NWTPH-Dx	2-13-25	2-13-25	
Lube Oil Range Organics	ND	50	NWTPH-Dx	2-13-25	2-13-25	
Surrogate:	Percent Recovery	Control Limits				_
o-Terphenyl	75	50-150				

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	02-10	9-06								
	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						70 67	50-150			

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW9-28					_
Laboratory ID:	02-109-06					
Vinyl Chloride	ND	0.0011	EPA 8260D	2-13-25	2-13-25	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	2-13-25	2-13-25	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	2-13-25	2-13-25	
Trichloroethene	ND	0.0011	EPA 8260D	2-13-25	2-13-25	
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	2-13-25	2-13-25	
Tetrachloroethene	ND	0.0011	EPA 8260D	2-13-25	2-13-25	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	116	69-124				
Toluene-d8	107	80-118				
4-Bromofluorobenzene	101	75-123				

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D QUALITY CONTROL

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						_
Laboratory ID:	MB0213S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	2-13-25	2-13-25	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-13-25	2-13-25	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-13-25	2-13-25	
Trichloroethene	ND	0.0010	EPA 8260D	2-13-25	2-13-25	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	2-13-25	2-13-25	
Tetrachloroethene	ND	0.0010	EPA 8260D	2-13-25	2-13-25	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	117	69-124				
Toluene-d8	108	80-118				
4-Bromofluorobenzene	102	75-123				

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB02	13S1								
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	0.0502	0.0484	0.0500	0.0500	100	97	52-141	4	20	
(trans) 1,2-Dichloroethene	0.0493	0.0474	0.0500	0.0500	99	95	74-131	4	15	
(cis) 1,2-Dichloroethene	0.0493	0.0477	0.0500	0.0500	99	95	71-136	3	15	
Trichloroethene	0.0558	0.0529	0.0500	0.0500	112	106	80-130	5	15	
1,1,2-Trichloroethane	0.0550	0.0494	0.0500	0.0500	110	99	80-123	11	15	
Tetrachloroethene	0.0567	0.0543	0.0500	0.0500	113	109	80-130	4	15	
Surrogate:										
Dibromofluoromethane					110	107	69-124			
Toluene-d8					105	101	80-118			
4-Bromofluorobenzene					100	96	75-123			

Date of Report: February 20, 2025 Samples Submitted: February 11, 2025 Laboratory Reference: 2502-109 Project: 02-0266-A

% MOISTURE

			Date
Client ID	Lab ID	% Moisture	Analyzed
GMW9-28	02-109-06	11	2-12-25



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.

Z -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference



Environmental Inc. Analytical Laboratory Testing Services 14648 NE 95th Street - Redmond, WA 980

Page
-
2

Same Day	Reviewed/Date	Received	Relinquished	Received Hotelan Pull	Relinquished	Received / VCA	Relinquished	Signature	10 GMW9-43	9 GMW9-31	8 GMW9-31	7 GMW9-35	6 GMW9-28	5 GMW9-25	4 CMM9-16	3 GMW9-13	2 GMW9-10	1 GMW9-5	Lab ID Sample Identification	Sampled by: CAM	Megan Paysmick, Liz Rachinan	Project Name: Bellevive Way Cheinery	02-0266-4	Project Number	Company:
NWTPH-HCID NWTPH-Gx/BTEX (8021 8260) NWTPH-Gx NWTPH-Dx (SG Clean-up) Volatiles 8260 **Charly Lister	Reviewed/Date			058	In sport	Leg 8	Atlas	Company	1336	1336	1248	1248	12:25	12:32 45:51	0h:11	11:42		11:46	Time Sampled	(other)	2	Standard (7 Days)		П	(OTIECK OTIE)
				= \	2/11/25 1030	2/11/25 836	2/11/25 836										100 000 0	U1	NWTP NWTP NWTP Volatili Haloge	PH-HCIE PH-Gx/E PH-Gx PH-Gx PH-Dx (9 es 8260 enated	SG Clea	8021) } U;		



Chain of Custody

Page 2 of 2

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Deviewed/Date			Coc	200	Spery	Salv	Atlas	Company	Company				J 1326 J J	2/10/25/1330 Soil 5	Date Time Sampled Sampled Matrix	(other)	ontaine	rd (7 Days)		☐ Same Day ☐ 1 Day	(Check One)	(in working days)
			090) 6304 [11]	7	2/11/25 1030	2/11/25 0836	2/11/25 0834	Date Time							NWTPI NWTPI	H-HCID H-Gx/B H-Gx H-Dx (S ss 8260 nated V	TEX (80	021□ 8; n-up□)	260 []			Laboratory Number:
Chromatograms with final report [Electronic Data Deliverables (EDDs) [Data Hackage: Standard Level Level V							Comments/Special Instructions							Semivo (with lo PAHs 8 PCBs 8 Organo Organo Chlorina Total RC Total MT TCLP M	w-level 270/SII 1082 chloring phosph ated Ac CRA Me FCA Me	PAHs) M (low-letals) Personal Persona	evel) sides 80: esticides sicides 8	8270/	SIM		02-109



February 24, 2025

Megan Poysnick Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0266-A Laboratory Reference No. 2502-176

Dear Megan:

Enclosed are the analytical results and associated quality control data for samples submitted on February 14, 2025.

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

Project: 02-0266-A

Case Narrative

Samples were collected on February 13, 2025 and received by the laboratory on February 14, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°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.

NWTPH-Gx Analysis

The result for sample GMW3 is attributed to a single peak (Tetrachloroethene).

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW1					
Laboratory ID:	02-176-01					
Gasoline	ND	100	NWTPH-Gx	2-18-25	2-18-25	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	85	61-122				
Client ID:	GMW3					
Laboratory ID:	02-176-02					
Gasoline Range Organics	ND	550	NWTPH-Gx	2-18-25	2-18-25	Z
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	85	61-122				
Client ID:	GMW9					
Laboratory ID:	02-176-03					
Gasoline	ND	100	NWTPH-Gx	2-18-25	2-18-25	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	87	61-122				

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0218W1					
Gasoline	ND	100	NWTPH-Gx	2-18-25	2-18-25	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	61-122				

Fluorobenzene 61-122

Analyte	Res	sult	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	02-18	32-01								
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						91 81	61-122			

Project: 02-0266-A

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:	GMW1					
Laboratory ID:	02-176-01					
Diesel Range Organics	ND	210	NWTPH-Dx	2-18-25	2-18-25	
Lube Oil Range Organics	ND	210	NWTPH-Dx	2-18-25	2-18-25	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	123	50-150				
Client ID:	GMW3					
Client ID:						
Laboratory ID:	02-176-02					
Diesel Range Organics	ND	210	NWTPH-Dx	2-18-25	2-18-25	
Lube Oil Range Organics	ND	210	NWTPH-Dx	2-18-25	2-18-25	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	115	50-150				
Client ID:	GMW9					
Laboratory ID:	02-176-03					
Diesel Range Organics	ND	210	NWTPH-Dx	2-18-25	2-18-25	
Lube Oil Range Organics	ND	210	NWTPH-Dx	2-18-25	2-18-25	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	127	50-150				

Date of Report: February 24, 2025 Samples Submitted: February 14, 2025

Laboratory Reference: 2502-176

Project: 02-0266-A

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:	MB0218W1					
Diesel Range Organics	ND	160	NWTPH-Dx	2-18-25	2-18-25	
Lube Oil Range Organics	ND	160	NWTPH-Dx	2-18-25	2-18-25	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	107	50-150				

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike Leve		Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	SB0218W1									
	ORIG	DUP								
Diesel Fuel #2	387	370	NA	NA		NA	NA	4	40	
Surrogate:										

o-Terphenyl 114 111 50-150

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

Matrix: Water Units: ug/L

Offics. ug/L				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW1					110.90
Laboratory ID:	02-176-01					
Vinyl Chloride	ND	0.20	EPA 8260D	2-19-25	2-19-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-19-25	2-19-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-19-25	2-19-25	
Trichloroethene	ND	0.20	EPA 8260D	2-19-25	2-19-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-19-25	2-19-25	
Tetrachloroethene	0.21	0.20	EPA 8260D	2-19-25	2-19-25	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	68-133				
Toluene-d8	101	79-123				
4-Bromofluorobenzene	101	78-117				
Client ID:	GMW3					
Laboratory ID:	02-176-02					
Vinyl Chloride	ND	4.0	EPA 8260D	2-19-25	2-19-25	
(trans) 1,2-Dichloroethene	ND	4.0	EPA 8260D	2-19-25	2-19-25	
(cis) 1,2-Dichloroethene	ND	4.0	EPA 8260D	2-19-25	2-19-25	
Trichloroethene	ND	4.0	EPA 8260D	2-19-25	2-19-25	
1,1,2-Trichloroethane	ND	4.0	EPA 8260D	2-19-25	2-19-25	
Tetrachloroethene	580	4.0	EPA 8260D	2-19-25	2-19-25	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	68-133				
Toluene-d8	100	79-123				
4-Bromofluorobenzene	103	78-117				
Client ID:	GMW9					
Laboratory ID:	02-176-03					
Vinyl Chloride	ND	0.20	EPA 8260D	2-19-25	2-19-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-19-25	2-19-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-19-25	2-19-25	
Trichloroethene	ND	0.20	EPA 8260D	2-19-25	2-19-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-19-25	2-19-25	
Tetrachloroethene	ND	0.20	EPA 8260D	2-19-25	2-19-25	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	68-133				
Toluene-d8	100	79-123				
4-Bromofluorobenzene	102	78-117				

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0219W1					
Vinyl Chloride	ND	0.20	EPA 8260D	2-19-25	2-19-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-19-25	2-19-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-19-25	2-19-25	
Trichloroethene	ND	0.20	EPA 8260D	2-19-25	2-19-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-19-25	2-19-25	
Tetrachloroethene	ND	0.20	EPA 8260D	2-19-25	2-19-25	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	68-133				
Toluene-d8	101	79-123				
4-Bromofluorobenzene	102	78-117				

QUALITY CONTROL

					Per	cent	Recovery		RPD		
Analyte	Res	sult	Spike Level		Rec	overy	Limits	RPD	Limit	Flags	
SPIKE BLANKS											
Laboratory ID:	SB02	19W1									
	SB	SBD	SB	SBD	SB	SBD					
Vinyl Chloride	10.7	10.4	10.0	10.0	107	104	67-130	3	15		
(trans) 1,2-Dichloroethene	9.68	9.61	10.0	10.0	97	96	77-125	1	15		
(cis) 1,2-Dichloroethene	9.92	9.86	10.0	10.0	99	99	78-130	1	15		
Trichloroethene	9.72	9.47	10.0	10.0	97	95	80-126	3	15		
1,1,2-Trichloroethane	9.26	9.08	10.0	10.0	93	91	80-124	2	15		
Tetrachloroethene	9.55	9.54	10.0	10.0	96	95	80-125	0	15		
Surrogate:											
Dibromofluoromethane					102	100	68-133				
Toluene-d8					103	102	79-123				
4-Bromofluorobenzene					104	103	78-117				



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.
- Z The result is attributed to a single peak (Tetrachloroethene).
- ND Not Detected at PQL
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference





Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request (in working days)

Laboratory Number:

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			8	Van	/am		Signature									Sample Identification	MUC	LIZ RACLAMAN	1 Cleaner		SW	
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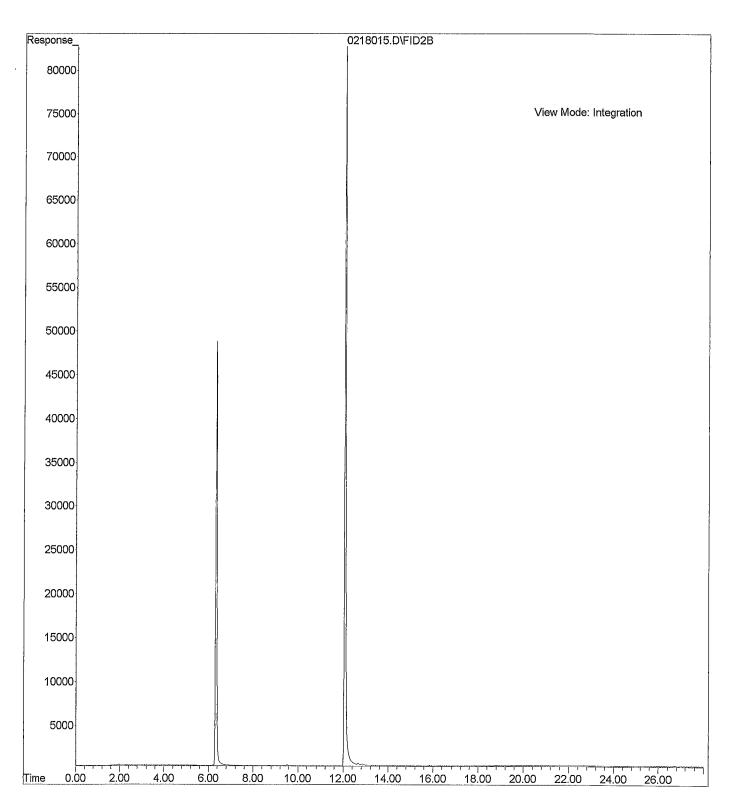
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Operator

Acquired : 18 Feb 2025 18:36 using AcqMethod 241227BH.M

Instrument: Hope Sample Name: 02-176-01d

Misc Info Vial Number: 15



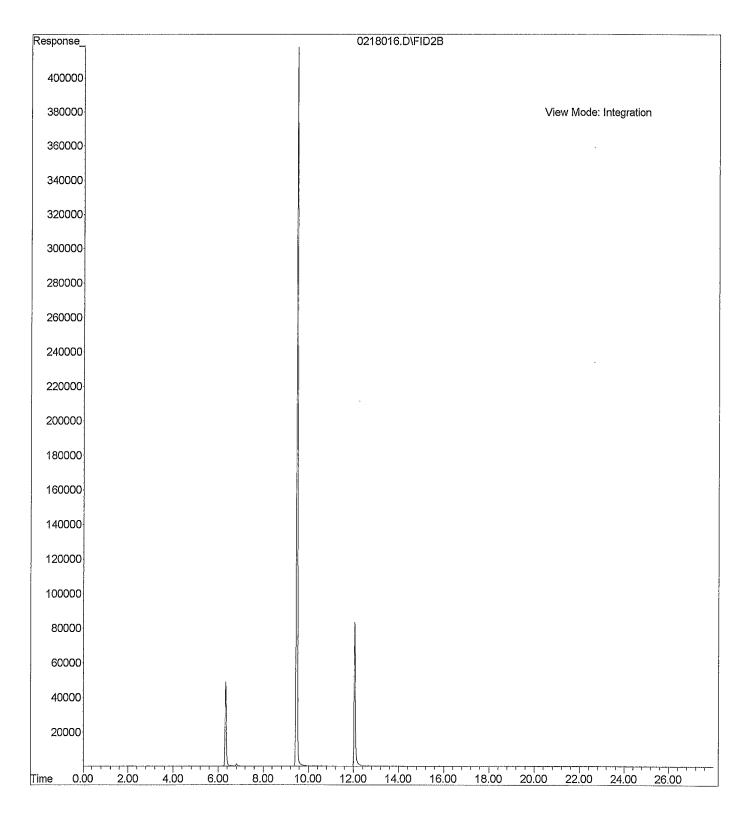
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Operator :

Acquired: 18 Feb 2025 19:06 using AcqMethod 241227BH.M

Instrument: Hope Sample Name: 02-176-02d

Misc Info : Vial Number: 16



File : X:\BTEX\HOPE\DATA\H250218\0218017.D

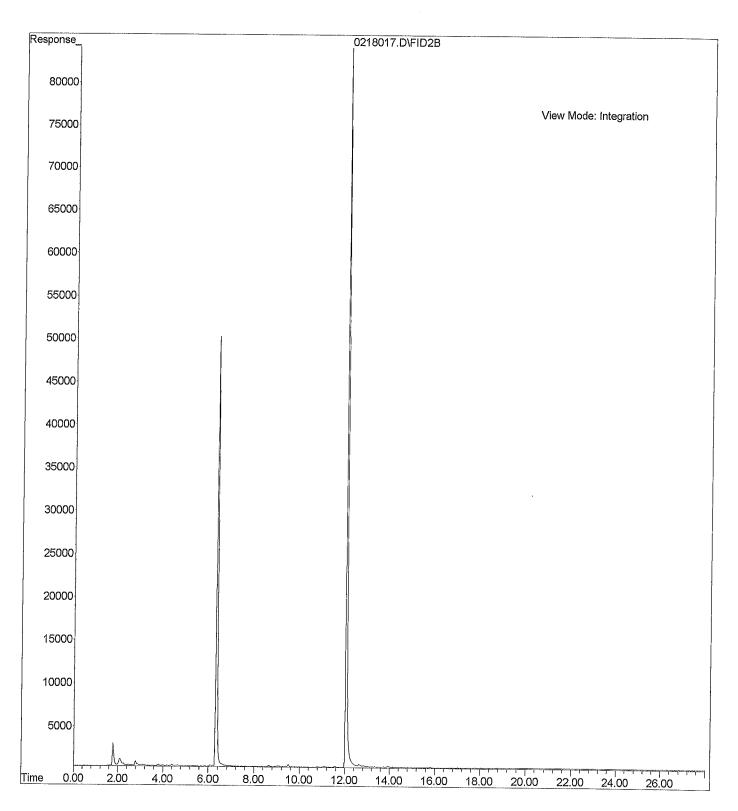
Operator

Acquired: 18 Feb 2025 19:36 using AcqMethod 241227BH.M

Instrument : Hope

Sample Name: 02-176-03d Misc Info :

Misc Info : Vial Number: 17



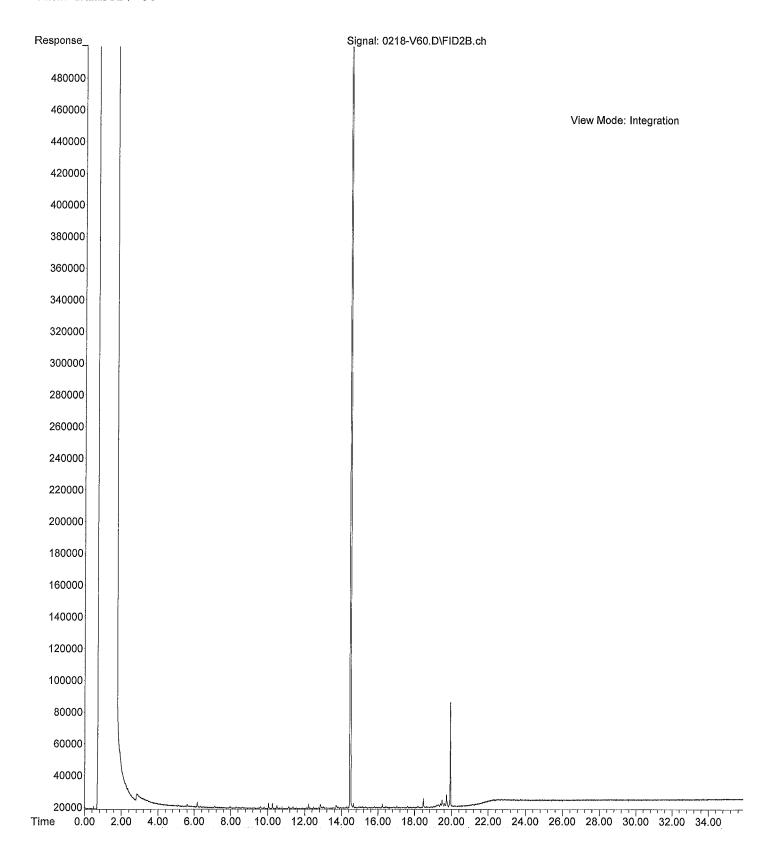
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Operator : LW

Acquired: 18 Feb 2025 15:32 using AcqMethod V241115F.M

Instrument : Vigo Sample Name: 02-176-01 Misc Info : RearSamp

Vial Number: 60



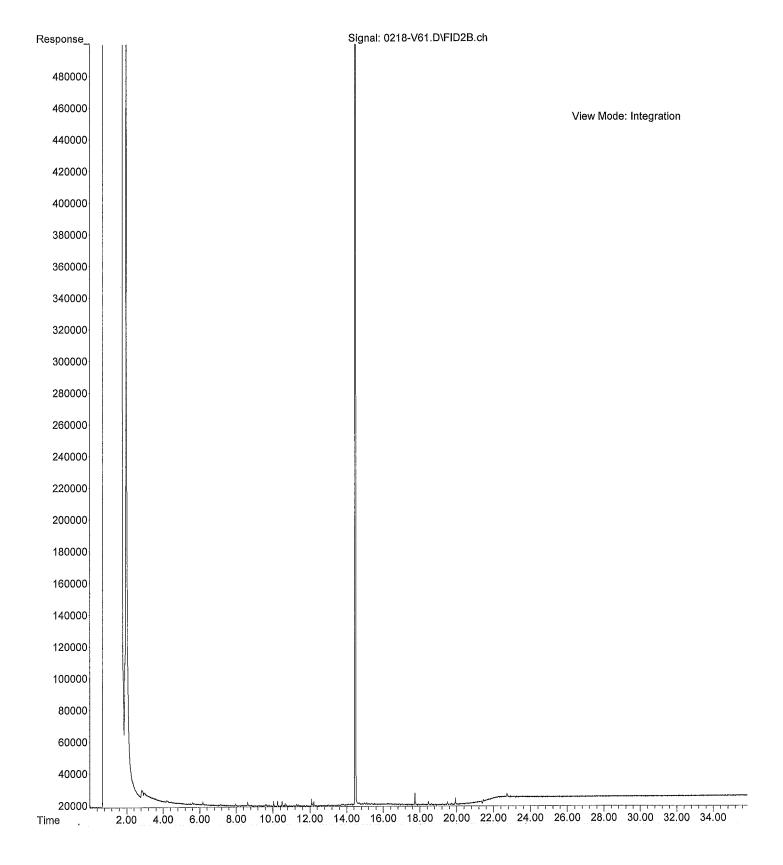
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Operator : LW

Acquired: 18 Feb 2025 16:13 using AcqMethod V241115F.M

Instrument: Vigo Sample Name: 02-176-02 Misc Info: RearSamp

Vial Number: 61

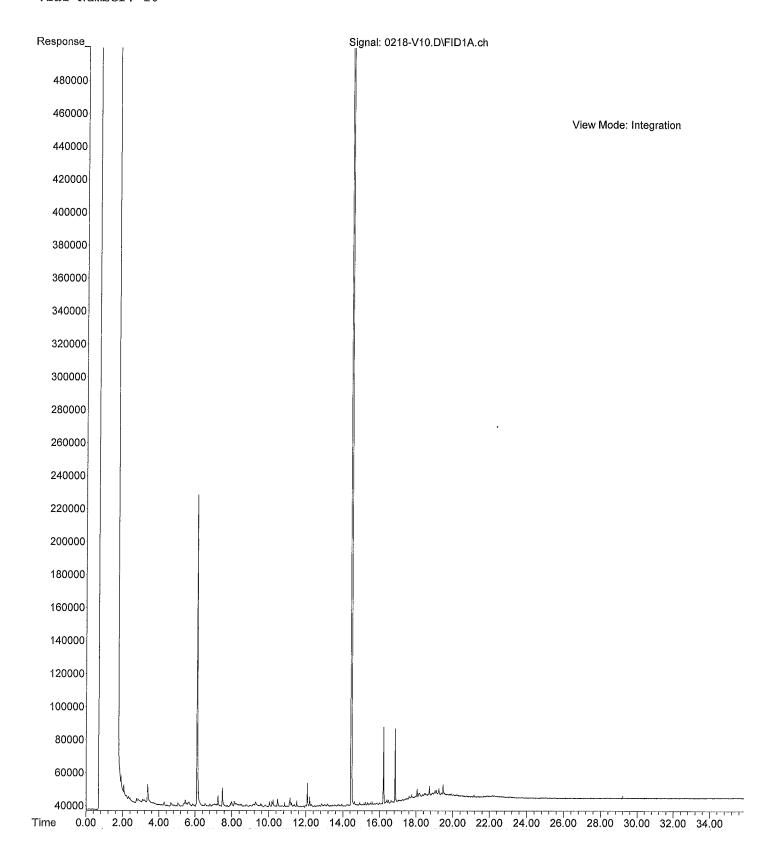


File :X:\DIESELS\Vigo\Data\V250218\0218-V10.D

Operator : LW

Acquired: 18 Feb 2025 15:32 using AcqMethod V241115F.M

Instrument: Vigo Sample Name: 02-176-03 Misc Info: Sample Vial Number: 10





December 4, 2024

Megan Poysnick Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0266-A Laboratory Reference No. 2411-259

Dear Megan:

Enclosed are the analytical results and associated quality control data for samples submitted on November 19, 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

Laboratory Reference: 2411-259

Project: 02-0266-A

Case Narrative

Samples were collected on November 18, 2024 and received by the laboratory on November 19, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°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.

Laboratory Reference: 2411-259

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

Offits. Hig/kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW4-25					
Laboratory ID:	11-259-08					
Vinyl Chloride	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
Trichloroethene	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
Tetrachloroethene	0.0022	0.0011	EPA 8260D	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	95	69-124				
Toluene-d8	100	80-118				
4-Bromofluorobenzene	101	75-123				
Client ID:	GMW4-50					
Laboratory ID:	11-259-13					
Vinyl Chloride	ND	0.00094	EPA 8260D	11-27-24	11-27-24	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260D	11-27-24	11-27-24	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260D	11-27-24	11-27-24	
1,2-Dichloroethane	ND	0.00094	EPA 8260D	11-27-24	11-27-24	
Trichloroethene	ND	0.00094	EPA 8260D	11-27-24	11-27-24	
Tetrachloroethene	ND	0.00094	EPA 8260D	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	69-124				
Toluene-d8	100	80-118				
4-Bromofluorobenzene	103	75-123				
Client ID:	GMW5-6					
Laboratory ID:	11-259-15					
Vinyl Chloride	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
Trichloroethene	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
Tetrachloroethene	0.013	0.0011	EPA 8260D	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	103	69-124				
Toluene-d8	100	80-118				
4-Bromofluorobenzene	106	75-123				

Laboratory Reference: 2411-259

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW5-30					_
Laboratory ID:	11-259-22					
Vinyl Chloride	ND	0.0012	EPA 8260D	11-27-24	11-27-24	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-27-24	11-27-24	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-27-24	11-27-24	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	11-27-24	11-27-24	
Trichloroethene	ND	0.0012	EPA 8260D	11-27-24	11-27-24	
Tetrachloroethene	0.031	0.0012	EPA 8260D	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	69-124				
Toluene-d8	100	80-118				
4-Bromofluorobenzene	102	75-123				
Client ID:	GMW5-50					
Laboratory ID:	11-259-27					
Vinyl Chloride	ND	0.0012	EPA 8260D	11-27-24	11-27-24	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-27-24	11-27-24	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-27-24	11-27-24	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	11-27-24	11-27-24	
Trichloroethene	ND	0.0012	EPA 8260D	11-27-24	11-27-24	
Tetrachloroethene	ND	0.0012	EPA 8260D	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	99	69-124				
Toluene-d8	101	80-118				
4-Bromofluorobenzene	93	75-123				

Laboratory Reference: 2411-259

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D QUALITY CONTROL

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						_
Laboratory ID:	MB1127S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
Trichloroethene	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	69-124				
Toluene-d8	100	80-118				
4-Bromofluorobenzene	105	75-123				

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Rec	overy Limits		RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB11:	27S1								
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	0.0558	0.0568	0.0500	0.0500	112	114	52-141	2	20	
(trans) 1,2-Dichloroethene	0.0555	0.0568	0.0500	0.0500	111	114	74-131	2	15	
(cis) 1,2-Dichloroethene	0.0561	0.0579	0.0500	0.0500	112	116	71-136	3	15	
1,2-Dichloroethane	0.0543	0.0535	0.0500	0.0500	109	107	70-133	1	15	
Trichloroethene	0.0556	0.0569	0.0500	0.0500	111	114	80-130	2	15	
Tetrachloroethene	0.0513	0.0577	0.0500	0.0500	103	115	80-130	12	15	
Surrogate:										
Dibromofluoromethane					102	102	69-124			
Toluene-d8					101	101	80-118			
4-Bromofluorobenzene					108	89	75-123			

Laboratory Reference: 2411-259 Project: 02-0266-A

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
GMW4-25	11-259-08	8	11-27-24
GMW4-50	11-259-13	18	11-27-24
GMW5-6	11-259-15	5	11-27-24
GMW5-30	11-259-22	8	11-27-24
GMW5-50	11-259-27	24	11-27-24



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.

Z -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference



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Chromatograms with final report V Electronic Data Deliverables (EDDs)	Data Package: StandardW Level III □ Level IV □	A Addor 112012 PLA			BY TEE, TEE, CISTYANS DEE,	Megan: mpoysnicke attasgeonwithm	Comments/Special Instructions											(with let PAHs and PCBs Organic Chlorin Total F Total M TCLP	bw-lev 8270/\$ 8082 ochlor ophosi mated // ATCA I	ohorus F Acid Her Metals Metals) -level) icides 8 Pesticides	es 8270	D/SIM		11-259



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Date			Tichelu Pilli	ed //cm	Vam	ad Manual Sac	Signature	GMW5-21	GMN5-2D	GMW5-15	6MW5-10	6MW5-9	BMW5-6	GMW5-5	SMW4-50	6 MW4 -45	6MM4-40	Sample Identification	BKQ	legan Pousnick/Liz Ruchina in	Belleville Way	02-02W-A	HIAS Grosciences NN	FILIDIE: (+23) 003-0001 - WWW.01SIE-EIN.COIII	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (495) 883, 3881
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			11/16/194 1047	11/19/24 1040	11/19/24/0852	11/19/24 0852	Date Time						8		8			NWTP NWTP Volatile Haloge	H-Gx H-Dx (Ses 8260 enated	BTEX (8)	n-up _))		Laboratory Number:
Chromatograms with final report Electronic Data Deliverables (EDDs)	Data Package: Standard ☐ Level III ☐ Level IV ☐						Comments/Special Instructions						(X)		(X)			(with lot PAHs & PAHs & PCBs Organo Chlorin Total R TCLP	ow-leve B270/Si B082 ochlorir ophosp nated A BCRA M MTCA M Metals		cides 8 Pesticides	es 8270	00/SIM		11-259

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November 26, 2024

Liz Rachman Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0266-C

Laboratory Reference No. 2411-260

Dear Liz:

Enclosed are the analytical results and associated quality control data for samples submitted on November 19, 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: November 26, 2024 Samples Submitted: November 19, 2024 Laboratory Reference: 2411-260

Project: 02-0266-C

Case Narrative

Samples were collected on November 18, 2024 and received by the laboratory on November 19, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°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.

Laboratory Reference: 2411-260

Project: 02-0266-C

GASOLINE RANGE ORGANICS/BTEX NWTPH-Gx/EPA 8021B

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B6-4-5					
Laboratory ID:	11-260-02					
Benzene	ND	0.020	EPA 8021B	11-25-24	11-25-24	
Toluene	ND	0.063	EPA 8021B	11-25-24	11-25-24	
Ethylbenzene	ND	0.063	EPA 8021B	11-25-24	11-25-24	
m,p-Xylene	ND	0.063	EPA 8021B	11-25-24	11-25-24	
o-Xylene	ND	0.063	EPA 8021B	11-25-24	11-25-24	
Gasoline	ND	6.3	NWTPH-Gx	11-25-24	11-25-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	110	62-134				
Client ID:	B6-9-10					
Laboratory ID:	11-260-04					
Benzene	ND	0.020	EPA 8021B	11-25-24	11-25-24	
Toluene	ND	0.058	EPA 8021B	11-25-24	11-25-24	
Ethylbenzene	ND	0.058	EPA 8021B	11-25-24	11-25-24	
m,p-Xylene	ND	0.058	EPA 8021B	11-25-24	11-25-24	
o-Xylene	ND	0.058	EPA 8021B	11-25-24	11-25-24	
Gasoline	ND	5.8	NWTPH-Gx	11-25-24	11-25-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	109	62-134				
Client ID:	B8-4-5					
Laboratory ID:	11-260-11					
Benzene	ND	0.020	EPA 8021B	11-25-24	11-25-24	_
Toluene	ND	0.055	EPA 8021B	11-25-24	11-25-24	
Ethylbenzene	ND	0.055	EPA 8021B	11-25-24	11-25-24	
m,p-Xylene	ND	0.055	EPA 8021B	11-25-24	11-25-24	
o-Xylene	ND	0.055	EPA 8021B	11-25-24	11-25-24	
Gasoline	ND	5.5	NWTPH-Gx	11-25-24	11-25-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	99	62-134				

Laboratory Reference: 2411-260

Project: 02-0266-C

GASOLINE RANGE ORGANICS/BTEX NWTPH-Gx/EPA 8021B

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B8-10-11					
Laboratory ID:	11-260-13					
Benzene	ND	0.020	EPA 8021B	11-25-24	11-25-24	
Toluene	ND	0.057	EPA 8021B	11-25-24	11-25-24	
Ethylbenzene	ND	0.057	EPA 8021B	11-25-24	11-25-24	
m,p-Xylene	ND	0.057	EPA 8021B	11-25-24	11-25-24	
o-Xylene	ND	0.057	EPA 8021B	11-25-24	11-25-24	
Gasoline	ND	5.7	NWTPH-Gx	11-25-24	11-25-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	101	62-134				
Client ID:	B9-5-6					
Laboratory ID:	11-260-16					
Benzene	ND	0.020	EPA 8021B	11-25-24	11-25-24	
Toluene	ND	0.054	EPA 8021B	11-25-24	11-25-24	
Ethylbenzene	ND	0.054	EPA 8021B	11-25-24	11-25-24	
m,p-Xylene	ND	0.054	EPA 8021B	11-25-24	11-25-24	
o-Xylene	ND	0.054	EPA 8021B	11-25-24	11-25-24	
Gasoline	ND	5.4	NWTPH-Gx	11-25-24	11-25-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	87	62-134				

87 Fluorobenzene 62-134

Laboratory Reference: 2411-260

Project: 02-0266-C

GASOLINE RANGE ORGANICS/BTEX NWTPH-Gx/EPA 8021B QUALITY CONTROL

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1126S1					
Benzene	ND	0.020	EPA 8021B	11-25-24	11-25-24	
Toluene	ND	0.050	EPA 8021B	11-25-24	11-25-24	
Ethylbenzene	ND	0.050	EPA 8021B	11-25-24	11-25-24	
m,p-Xylene	ND	0.050	EPA 8021B	11-25-24	11-25-24	
o-Xylene	ND	0.050	EPA 8021B	11-25-24	11-25-24	
Gasoline	ND	5.0	NWTPH-Gx	11-25-24	11-25-24	
Surrogate:	Percent Pecovery	Control Limits				

Surrogate: Percent Recovery Control Limits Fluorobenzene 100 62-134

Analyte	Res	sult	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	11-26	60-02								
	ORIG	DUP								
Benzene	ND	ND	NA	NA		NA	NA	NA	30	
Toluene	ND	ND	NA	NA		NA	NA	NA	30	
Ethylbenzene	ND	ND	NA	NA		NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA		NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA		NA	NA	NA	30	
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						110 103	62-134			
SPIKE BLANKS										
Laboratory ID:	SB11	26S1								
	SB	SBD	SB	SBD	•	SB SBD		·		

Laboratory ID:	SB11	I26S1								
	SB	SBD	SB	SBD	SB	SBD				
Benzene	0.834	0.890	1.00	1.00	83	89	72-119	6	10	
Toluene	0.869	0.927	1.00	1.00	87	93	75-122	6	10	
Ethylbenzene	0.885	0.944	1.00	1.00	89	94	75-121	6	10	
m,p-Xylene	0.890	0.945	1.00	1.00	89	95	76-122	6	11	
o-Xylene	0.886	0.938	1.00	1.00	89	94	77-122	6	11	
Surrogate:										

62-134

Surrogate: 91 97

Laboratory Reference: 2411-260

Project: 02-0266-C

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:	B6-4-5					
Laboratory ID:	11-260-02					
Diesel Range Organics	ND	30	NWTPH-Dx	11-26-24	11-26-24	
Lube Oil Range Organics	ND	60	NWTPH-Dx	11-26-24	11-26-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	66	50-150				
Client ID:	B6-9-10					
Laboratory ID:	11-260-04					
Diesel Range Organics	ND	27	NWTPH-Dx	11-26-24	11-26-24	
Lube Oil Range Organics	ND	54	NWTPH-Dx	11-26-24	11-26-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	74	50-150				

Laboratory Reference: 2411-260

Project: 02-0266-C

DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Soil

Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1126S1					
Diesel Range Organics	ND	25	NWTPH-Dx	11-26-24	11-26-24	
Lube Oil Range Organics	ND	50	NWTPH-Dx	11-26-24	11-26-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	84	50-150				

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	11-26	60-02								
	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						66 69	50-150			

Laboratory Reference: 2411-260 Project: 02-0266-C

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
B6-4-5	11-260-02	16	11-25-24
B6-9-10	11-260-04	8	11-25-24
B8-4-5	11-260-11	4	11-25-24
B8-10-11	11-260-13	9	11-25-24
B9-5-6	11-260-16	8	11-25-24



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.

Z -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference



OnSite Environmental Inc. Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 9808

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OnSite Environmental Inc. Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052

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December 2, 2024

Liz Rachman Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0266-C

Laboratory Reference No. 2411-260B

Dear Liz:

Enclosed are the analytical results and associated quality control data for samples submitted on November 19, 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

Project: 02-0266-C

Case Narrative

Samples were collected on November 18, 2024 and received by the laboratory on November 19, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°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.

Project: 02-0266-C

GASOLINE RANGE ORGANICS NWTPH-Gx

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B9-5-6					
Laboratory ID:	11-260-16					
Gasoline	ND	5.4	NWTPH-Gx	11-25-24	11-25-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	87	62-134				

Project: 02-0266-C

GASOLINE RANGE ORGANICS NWTPH-Gx QUALITY CONTROL

Matrix: Soil

Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1126S1					
Gasoline	ND	5.0	NWTPH-Gx	11-25-24	11-25-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	100	62-134				

Analyte	Res	sult	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	11-26	60-02								
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						110 103	62-134			

Project: 02-0266-C

TOTAL METALS EPA 6010D/7471B

Matrix: Soil

Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B7-5-6					
Laboratory ID:	11-260-08					
Arsenic	ND	11	EPA 6010D	12-2-24	12-2-24	
Barium	26	2.7	EPA 6010D	12-2-24	12-2-24	
Cadmium	ND	0.54	EPA 6010D	12-2-24	12-2-24	
Chromium	16	0.54	EPA 6010D	12-2-24	12-2-24	
Lead	ND	5.4	EPA 6010D	12-2-24	12-2-24	
Mercury	ND	0.27	EPA 7471B	12-2-24	12-2-24	
Selenium	ND	11	EPA 6010D	12-2-24	12-2-24	
Silver	ND	1.1	EPA 6010D	12-2-24	12-2-24	

Project: 02-0266-C

TOTAL METALS EPA 6010D/7471B QUALITY CONTROL

Matrix: Soil

Units: mg/Kg (ppm)

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
MB1202SM1					
ND	10	EPA 6010D	12-2-24	12-2-24	
ND	2.5	EPA 6010D	12-2-24	12-2-24	
ND	0.50	EPA 6010D	12-2-24	12-2-24	
ND	0.50	EPA 6010D	12-2-24	12-2-24	
ND	5.0	EPA 6010D	12-2-24	12-2-24	
ND	10	EPA 6010D	12-2-24	12-2-24	
ND	1.0	EPA 6010D	12-2-24	12-2-24	
MB1202S1					
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	_				Source	_	rcent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:		60-08									
	ORIG	DUP									
Arsenic	ND	ND	NA	NA			NA	NA	NA	20	
Barium	23.9	25.4	NA	NA			NA	NA	6	20	
Cadmium	ND	ND	NA	NA			NA	NA	NA	20	
Chromium	14.6	17.2	NA	NA			NA	NA	16	20	
Lead	ND	ND	NA	NA			NA	NA	NA	20	
Selenium	ND	ND	NA	NA			NA	NA	NA	20	
Silver	ND	ND	NA	NA			NA	NA	NA	20	
Laboratory ID:	10-40	05-21									
Mercury	ND	ND	NA	NA			NA	NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	11-26	80-08									
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	85.4	84.5	100	100	ND	85	85	75-125	1	20	
Barium	112	110	100	100	23.9	89	86	75-125	2	20	
Cadmium	41.9	41.2	50.0	50.0	ND	84	82	75-125	2	20	
Chromium	107	104	100	100	14.6	92	89	75-125	3	20	
Lead	226	222	250	250	ND	90	89	75-125	2	20	
Selenium	88.2	85.6	100	100	ND	88	86	75-125	3	20	
Silver	19.7	19.6	25.0	25.0	ND	79	78	75-125	1	20	
Laboratory ID:	10-40	05-21									
Mercury	0.514	0.518	0.500	0.500	0.0174	99	100	80-120	1	20	

% MOISTURE

			Date
Client ID	Lab ID	% Moisture	Analyzed
B7-5-6	11-260-08	7	12-2-24
B9-5-6	11-260-16	8	11-25-24



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.

Z -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference





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Rev	Rec	Reli	Rec	Reli	Rec	Reli	11	6	_	∞0	7	6	N	۲	v	2	_	Lab ID	Samp	Proje	Proje		D D	Company:	
Reviewed/Date	Received	Relinquished	Received Property Pro	Relinquished	Received	Relinquished Day St	Signature	87-14-15	B7-8-9	137-5-6	B7-4-5	Bb-14-15	Bb-10-12 Bb-10-11	Bu-9-101	B6-5-6	Bu-4-5	Bb0-1	Sample Identification	Sampled by: HVS	0	Bellevile Way	03-02WW-C	Atlas Geosciences NW	anv:	14648 NE 95th Street • Redmond, WA 98052
Reviewed/Date		000	250	Sport	W Sell	Phs Go	Company	W 1125 V 5	1110 5	1105	1100	1275	[P3	1030 5	1035	1 1019 1 5	11/18/24 1017 Soil E	Date Time Sampled Sampled Matrix	(other)		Standard (7 Days)	2 Days 3 Days	Same Day 1 Day	(Check One)	(in working days)
			ווווישושל וישטד	11/19/24 1040	1/1/1/24 0852	11/19/24 0857	Date Time							*		× ×		NWTP NWTP NWTP Volatili Haloge	PH-HCIE PH-Gx/B PH-Gx PH-Dx (S es 8260 enated \	TEX (80 GG Clea	02 1 √ 8 n-up □)				Laboratory Number:
Chromatograms with final reportX ☐ Electronic Data Deliverables (EDDs) ☑	Data Package: Standard X Level III □ Level IV □		(x) - ridder : (ctich: y)	V 1920 ALTERATION (2017)	2 V- Orded Windows No (orth)	Z Megan: mpoysnick@atlasgeonw.com	Comments/Special Instructions			8								Semiv (with to PAHs a PCBs Organo Organo Chlorin Total F Total M TCLP I	ochlorin ophospi nated Ar RCRA M	8270/Si I PAHs) M (low- horus P cid Hert etals	M level) cides 80 esticides 60	s 8270	/SIM		er: 11-260
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Heviewed/Date				05G-	W. Color		Solu	Atlas Fred	company	Compone		₹ 1240 V		1235	1232 5	1225	1200	1202	1150	1100 741117/8/1/1	21112	Date Time Sampled Sampled Matrix	(other)	ontaine	Standard (7 Days)	2 Days 3 Days	Same Day 1 Day	(Check One)	Turnaround Request (in working days)
				11/19/124 1040	11/19/24 1046		1/10/24 D852	7580 HZ/W/11	Date Time						8)-						NWTPI	H-HCIE H-Gx/E H-Gx H-Dx (8 s 8260	STEX (80 SG Clea	021 x 8				Laboratory Number:
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14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 4, 2024

Megan Poysnick Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0266-A

Laboratory Reference No. 2411-284

Dear Megan:

Enclosed are the analytical results and associated quality control data for samples submitted on November 20, 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



Laboratory Reference: 2411-284

Project: 02-0266-A

Case Narrative

Samples were collected on November 19, 2024 and received by the laboratory on November 20, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°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.

Volatiles EPA 8260D Analysis

All four internal standards did not meet acceptance criteria for sample GMW6-35. The sample was re-analyzed with similar results. Leaks in the sealed VOA environment caused by grit between the VOA lip and VOA cap septum have been shown to cause low internal standard recovery. Method 5035A states that for low-level VOC analysis the purge-and-trap system employed must be capable of agitating the sealed sample during the purging process. The purge-and-trap system that OnSite Environmental utilizes for the analysis of low-level VOCs has a stir motor that spins a magnetic stir bar within the sample thereby agitating the sample and providing more efficient purging. Due to the aforementioned failed analyses, a VOA vial without a stir bar was analyzed and reported for the low-level VOC analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Laboratory Reference: 2411-284

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW7-7					
Laboratory ID:	11-284-20					
Gasoline	ND	5.5	NWTPH-Gx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	90	62-134				

Laboratory Reference: 2411-284

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx QUALITY CONTROL

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1127S1					
Gasoline	ND	5.0	NWTPH-Gx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	104	62-134				

Analyte	Res	sult	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	11-28	34-20								
-	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						90 104	62-134			

Laboratory Reference: 2411-284

Project: 02-0266-A

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:	GMW7-7					
Laboratory ID:	11-284-20					
Diesel Range Organics	ND	27	NWTPH-Dx	11-27-24	11-27-24	
Lube Oil Range Organics	ND	54	NWTPH-Dx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	84	50-150				

Laboratory Reference: 2411-284

Project: 02-0266-A

DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Soil

Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1127S2					
Diesel Range Organics	ND	25	NWTPH-Dx	11-27-24	11-27-24	
Lube Oil Range Organics	ND	50	NWTPH-Dx	11-27-24	11-27-24	_
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	86	50-150				

					Source	Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Reco	very	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	11-34	10-08									
	ORIG	DUP									
Diesel Range	ND	ND	NA	NA		N	Α	NA	NA	40	_
Lube Oil Range	ND	ND	NA	NA		N	Α	NA	NA	40	
Surrogate:											_
o-Terphenyl						81	<i>7</i> 5	50-150			

Laboratory Reference: 2411-284

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

Analyto	Result	PQL	Method	Date Propaged	Date Analyzod	Elaca
Analyte Client ID:	GMW6-35	FUL	Menioa	Prepared	Analyzed	Flags
Laboratory ID:	11-284-11					
Vinyl Chloride	ND	0.0011	EPA 8260D	12-2-24	12-2-24	
(trans) 1,2-Dichloroethene	ND ND	0.0011	EPA 8260D	12-2-24	12-2-24	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	12-2-24	12-2-24	
1,2-Dichloroethane	ND ND	0.0011	EPA 8260D	12-2-24	12-2-24	
Trichloroethene	ND ND	0.0011	EPA 8260D	12-2-24	12-2-24	
Tetrachloroethene	0.0029	0.0011	EPA 8260D	12-2-24	12-2-24	
		Control Limits	EFA 0200D	12-2-24	12-2-24	
Surrogate: Dibromofluoromethane	Percent Recovery 105	69-124				
Toluene-d8	100	80-118 75-122				
4-Bromofluorobenzene	102	75-123				
Client ID:	GMW6-55					
Laboratory ID:	11-284-16					
Vinyl Chloride	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
Trichloroethene	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
Tetrachloroethene	ND	0.0011	EPA 8260D	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	99	69-124				
Toluene-d8	100	80-118				
4-Bromofluorobenzene	103	75-123				
Oliver A ID	01047.7					
Client ID:	GMW7-7					
Laboratory ID:	11-284-20	0.0040	EDA 0000E	44.07.04	44.07.04	
Vinyl Chloride	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
Trichloroethene	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
Tetrachloroethene	0.015	0.0010	EPA 8260D	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	103	69-124				
Toluene-d8	103	80-118				
4-Bromofluorobenzene	105	75-123				

Laboratory Reference: 2411-284

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW7-22					
Laboratory ID:	11-284-26					
Vinyl Chloride	ND	0.00074	EPA 8260D	11-27-24	11-27-24	
(trans) 1,2-Dichloroethene	ND	0.00074	EPA 8260D	11-27-24	11-27-24	
(cis) 1,2-Dichloroethene	ND	0.00074	EPA 8260D	11-27-24	11-27-24	
1,2-Dichloroethane	ND	0.00074	EPA 8260D	11-27-24	11-27-24	
Trichloroethene	ND	0.00074	EPA 8260D	11-27-24	11-27-24	
Tetrachloroethene	0.035	0.00074	EPA 8260D	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	69-124				
Toluene-d8	103	80-118				
4-Bromofluorobenzene	104	75-123				
Client ID:	GMW7-50					
Laboratory ID:	11-284-33					
Vinyl Chloride	ND	0.00090	EPA 8260D	11-30-24	11-30-24	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260D	11-30-24	11-30-24	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260D	11-30-24	11-30-24	
1,2-Dichloroethane	ND	0.00090	EPA 8260D	11-30-24	11-30-24	
Trichloroethene	ND	0.00090	EPA 8260D	11-30-24	11-30-24	
Tetrachloroethene	ND	0.00090	EPA 8260D	11-30-24	11-30-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	106	69-124				
Toluene-d8	100	80-118				
4-Bromofluorobenzene	103	75-123				

Laboratory Reference: 2411-284

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D QUALITY CONTROL

onits. Hig/kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1127S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
Trichloroethene	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	69-124				
Toluene-d8	100	80-118				
4-Bromofluorobenzene	105	75-123				
Laboratory ID:	MB1130S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
Trichloroethene	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	105	69-124				
Toluene-d8	99	80-118				
4-Bromofluorobenzene	101	75-123				
Laboratory ID:	MB1202S1					
Vinyl Chloride	ND ND	0.0010	EPA 8260D	12-2-24	12-2-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
Trichloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
Surrogate:	Percent Recovery	Control Limits		<u> </u>	· ·	
Dibromofluoromethane	106	69-124				
Toluene-d8	99	80-118				
4-Bromofluorobenzene	102	75-123				
- DIOINGIAGIODENZENE	102	10-123				

Laboratory Reference: 2411-284

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D QUALITY CONTROL

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Reco	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB11	27S1								
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	0.0558	0.0568	0.0500	0.0500	112	114	52-141	2	20	
(trans) 1,2-Dichloroethene	0.0555	0.0568	0.0500	0.0500	111	114	74-131	2	15	
(cis) 1,2-Dichloroethene	0.0561	0.0579	0.0500	0.0500	112	116	71-136	3	15	
1,2-Dichloroethane	0.0543	0.0535	0.0500	0.0500	109	107	70-133	1	15	
Trichloroethene	0.0556	0.0569	0.0500	0.0500	111	114	80-130	2	15	
Tetrachloroethene	0.0513	0.0577	0.0500	0.0500	103	115	80-130	12	15	
Surrogate:										
Dibromofluoromethane					102	102	69-124			
Toluene-d8					101	101	80-118			
4-Bromofluorobenzene					108	89	75-123			
Laboratory ID:	SB11	30S1								
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	0.0483	0.0471	0.0500	0.0500	97	94	52-141	3	20	
(trans) 1,2-Dichloroethene	0.0529	0.0526	0.0500	0.0500	106	105	74-131	1	15	
(cis) 1,2-Dichloroethene	0.0542	0.0535	0.0500	0.0500	108	107	71-136	1	15	
1,2-Dichloroethane	0.0536	0.0531	0.0500	0.0500	107	106	70-133	1	15	
Trichloroethene	0.0552	0.0545	0.0500	0.0500	110	109	80-130	1	15	
Tetrachloroethene	0.0574	0.0577	0.0500	0.0500	115	115	80-130	1	15	
Surrogate:										
Dibromofluoromethane					101	103	69-124			
Toluene-d8					98	98	80-118			
4-Bromofluorobenzene					101	102	75-123			
Laboratory ID:	SB12	02S1								
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	0.0510	0.0501	0.0500	0.0500	102	100	52-141	2	20	
(trans) 1,2-Dichloroethene	0.0542	0.0542	0.0500	0.0500	108	108	74-131	0	15	
(cis) 1,2-Dichloroethene	0.0557	0.0548	0.0500	0.0500	111	110	71-136	2	15	
1,2-Dichloroethane	0.0573	0.0560	0.0500	0.0500	115	112	70-133	2	15	
Trichloroethene	0.0539	0.0558	0.0500	0.0500	108	112	80-130	3	15	
Tetrachloroethene	0.0556	0.0571	0.0500	0.0500	111	114	80-130	3	15	
Surrogate:										
Dibromofluoromethane					106	104	69-124			
Toluene-d8					100	98	80-118			
4-Bromofluorobenzene					103	103	75-123			

Laboratory Reference: 2411-284

Project: 02-0266-A

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
GMW6-35	11-284-11	7	11-27-24
GMW6-55	11-284-16	16	11-27-24
GMW7-7	11-284-20	7	11-27-24
GMW7-22	11-284-26	12	11-27-24
GMW7-50	11-284-33	18	11-27-24



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.

Z -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference



Environmental Inc. Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052

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Sample Identification I	Phone: (425) 883-3881 · www.onsite-env.com (Check One) (Cl) Citences N iv	14648 NE 95th Street - Redmonds, IVA 98052 Phone: (425) 883-3881 • www.onsite-env.com	WA 98052 (in working days) Laboratory Number:	, WA 98052 (in working days) Laboratory Number:	(céan fuium iii)		The state of the s	Circus Circy	1 - C.		Same Day 1 Day	70E	3 Davis	2 Days 3 Days	D D D D D D D D D D D D D D D D D D D	CG (GOD)	Standard (7 Days) G Q G On M Idea G G On G G G G G G G G G G G G G	SS 83 SI	eser.	iiniiile	aaii XX X Accidental A	Account (W 2700 M M Per	ODD ODD 11 (I selected letters)	CGIC ([[CGIC AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Othber CC CXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(Ourier) (Ou	CVCVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	Time //TI //TI //TI attitude //TI //TI attitude //TI //TI //TI attitude //TI //TI //TI //TI //TI //TI //TI //T	Common Identification Common Identification	Sample distinct annual samples annua		11/19 1027 6 5			GMW-6-5		SMW-C-6	C. 10/00 6		GMW-6-x	4 0		SMW- 6-9		PAW-61			27×-6-15			(7) MW- 6-20		20 M - 6-02	Class C	1	GMN-6-30			Company Date Time		Relinquished Was 1911	WALLIAM YOUNG TO THE WALLIAM THE WALLIAM TO THE WALLIAM THE WALLIAM TO THE WALLIA	2,370	1 Second 1 S	ディーの8 イントカトかのいて		Volume 1		10°C	100 100 X 10 X 10 X 10 X 10 X 10 X 10 X	Control of the contro			り子		Data Package: Standard ☐ Level III ☐ Level IV	Data Package: Standard ☐ Level III ☐ Level
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14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 4, 2024

Megan Poysnick Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0266-A

Laboratory Reference No. 2411-303

Dear Megan:

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



Laboratory Reference: 2411-303

Project: 02-0266-A

Case Narrative

Samples were collected on November 20, 2024 and received by the laboratory on November 21, 2024. They were maintained at the laboratory at a temperature of 2° C to 6° 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.

NWTPH Dx Analysis

The duplicate RPD is outside of the control limits due to sample inhomogeneity.

Volatiles EPA 8260D Analysis

All four internal standards did not meet acceptance criteria for sample GMW8-22. The sample was re-analyzed with similar results. Leaks in the sealed VOA environment caused by grit between the VOA lip and VOA cap septum have been shown to cause low internal standard recovery. Method 5035A states that for low-level VOC analysis the purge-and-trap system employed must be capable of agitating the sealed sample during the purging process. The purge-and-trap system that OnSite Environmental utilizes for the analysis of low-level VOCs has a stir motor that spins a magnetic stir bar within the sample thereby agitating the sample and providing more efficient purging. Due to the aforementioned failed analyses, a VOA vial without a stir bar was analyzed and reported for the low-level VOC analysis.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Laboratory Reference: 2411-303

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B11-8					_
Laboratory ID:	11-303-25					
Gasoline	ND	5.1	NWTPH-Gx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	62-134				

Laboratory Reference: 2411-303

Project: 02-0266-A

GASOLINE RANGE ORGANICS NWTPH-Gx QUALITY CONTROL

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1127S1					
Gasoline	ND	5.0	NWTPH-Gx	11-27-24	11-27-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	104	62-134				

Res	Source Percent Result Spike Level Result Recovery					Recovery Limits	RPD	RPD Limit	Flags
					-				
11-28									
ORIG	DUP								
ND	ND	NA	NA		NA	NA	NA	30	
					00 404	00.404			
	11-28 ORIG	11-284-20 ORIG DUP	11-284-20 ORIG DUP	11-284-20 ORIG DUP	Result Spike Level Result 11-284-20 ORIG DUP	Result Spike Level Result Recovery 11-284-20 ORIG DUP	Result Spike Level Result Recovery Limits 11-284-20 ORIG DUP ND ND NA NA NA NA NA	Result Spike Level Result Recovery Limits RPD 11-284-20 ORIG DUP ND ND NA NA NA NA NA	Result Spike Level Result Recovery Limits RPD Limit 11-284-20 ORIG DUP NA NA NA NA NA NA 30

Laboratory Reference: 2411-303

Project: 02-0266-A

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:	B11-8					
Laboratory ID:	11-303-25					
Diesel Range Organics	ND	27	NWTPH-Dx	12-2-24	12-2-24	
Lube Oil Range Organics	ND	54	NWTPH-Dx	12-2-24	12-2-24	
Surrogate:	Percent Recovery	Control Limits			•	

o-Terphenyl 94 50-150

Laboratory Reference: 2411-303

Project: 02-0266-A

DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Soil

Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK				•	•	
Laboratory ID:	MB1202S2					
Diesel Range Organics	ND	25	NWTPH-Dx	12-2-24	12-2-24	_
Lube Oil Range Organics	ND	50	NWTPH-Dx	12-2-24	12-2-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	89	50-150				

					Source	Perc	ent	Recovery		RPD	
Analyte	Res	sult	Spike Level		Result	Recovery		Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	12-00)5-01									
	ORIG	DUP									
Diesel Range	ND	ND	NA	NA		N/	A	NA	NA	40	
Lube Oil	102	56.7	NA	NA		N	A	NA	57	40	L
Surrogate:											
o-Terphenyl						83	73	50-150			

Laboratory Reference: 2411-303

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

Offics. Hig/kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	GMW8-1					
Laboratory ID:	11-303-03					
Vinyl Chloride	ND	0.00074	EPA 8260D	12-2-24	12-2-24	
(trans) 1,2-Dichloroethene	ND	0.00074	EPA 8260D	12-2-24	12-2-24	
(cis) 1,2-Dichloroethene	ND	0.00074	EPA 8260D	12-2-24	12-2-24	
1,2-Dichloroethane	ND	0.00074	EPA 8260D	12-2-24	12-2-24	
Trichloroethene	ND	0.00074	EPA 8260D	12-2-24	12-2-24	
Tetrachloroethene	0.00081	0.00074	EPA 8260D	12-2-24	12-2-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	107	69-124				
Toluene-d8	98	80-118				
4-Bromofluorobenzene	103	75-123				
Client ID:	GMW8-22					
Laboratory ID:	11-303-08					
Vinyl Chloride	ND	0.00085	EPA 8260D	12-2-24	12-2-24	
(trans) 1,2-Dichloroethene	ND	0.00085	EPA 8260D	12-2-24	12-2-24	
(cis) 1,2-Dichloroethene	ND	0.00085	EPA 8260D	12-2-24	12-2-24	
1,2-Dichloroethane	ND	0.00085	EPA 8260D	12-2-24	12-2-24	
Trichloroethene	ND	0.00085	EPA 8260D	12-2-24	12-2-24	
Tetrachloroethene	ND	0.00085	EPA 8260D	12-2-24	12-2-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	112	69-124				
Toluene-d8	98	80-118				
4-Bromofluorobenzene	103	75-123				
Client ID:	GMW8-60					
Laboratory ID:	11-303-21					
Vinyl Chloride	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
Trichloroethene	ND ND	0.0010	EPA 8260D	11-30-24	11-30-24	
Tetrachloroethene	ND ND	0.0010	EPA 8260D	11-30-2 4 11-30-24	11-30-24	
			EFA 0200D	11-30-24	11-30-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	106	69-124				
Toluene-d8	100	80-118				
4-Bromofluorobenzene	103	75-123				

Laboratory Reference: 2411-303

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

Offics. Hig/kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B11-8					
Laboratory ID:	11-303-25					
Vinyl Chloride	ND	0.00095	EPA 8260D	11-30-24	11-30-24	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	11-30-24	11-30-24	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	11-30-24	11-30-24	
1,2-Dichloroethane	ND	0.00095	EPA 8260D	11-30-24	11-30-24	
Trichloroethene	ND	0.00095	EPA 8260D	11-30-24	11-30-24	
Tetrachloroethene	0.0017	0.00095	EPA 8260D	11-30-24	11-30-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	108	69-124				
Toluene-d8	99	80-118				
4-Bromofluorobenzene	103	75-123				
Client ID:	B11-25					
Laboratory ID:	11-303-31					
Vinyl Chloride	ND	0.00068	EPA 8260D	11-30-24	11-30-24	
(trans) 1,2-Dichloroethene	ND	0.00068	EPA 8260D	11-30-24	11-30-24	
(cis) 1,2-Dichloroethene	ND	0.00068	EPA 8260D	11-30-24	11-30-24	
1,2-Dichloroethane	ND	0.00068	EPA 8260D	11-30-24	11-30-24	
Trichloroethene	ND	0.00068	EPA 8260D	11-30-24	11-30-24	
Tetrachloroethene	0.0023	0.00068	EPA 8260D	11-30-24	11-30-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	106	69-124				
Toluene-d8	99	80-118				
4-Bromofluorobenzene	101	75-123				
Client ID:	B11-55					
Laboratory ID:	11-303-38					
Vinyl Chloride	ND	0.0012	EPA 8260D	11-30-24	11-30-24	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-30-24	11-30-24	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-30-24	11-30-24	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	11-30-24	11-30-24	
Trichloroethene	ND	0.0012	EPA 8260D	11-30-24	11-30-24	
Tetrachloroethene	ND	0.0012	EPA 8260D	11-30-24	11-30-24	
Surrogate:	Percent Recovery	Control Limits	LI /\ 0200D	11-00-27	11-00-2 1	
Dibromofluoromethane	108	69-124				
Toluene-d8	99	80-12 4 80-118				
4-Bromofluorobenzene	102	75-123				

Laboratory Reference: 2411-303

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D QUALITY CONTROL

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1130S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
Trichloroethene	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	11-30-24	11-30-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	105	69-124				
Toluene-d8	99	80-118				
4-Bromofluorobenzene	101	75-123				
Laboratory ID:	MB1202S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
Trichloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	12-2-24	12-2-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	106	69-124				
Toluene-d8	99	80-118				
4-Bromofluorobenzene	102	75-123				

Laboratory Reference: 2411-303

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D QUALITY CONTROL

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Reco	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB11	30S1								
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	0.0483	0.0471	0.0500	0.0500	97	94	52-141	3	20	
(trans) 1,2-Dichloroethene	0.0529	0.0526	0.0500	0.0500	106	105	74-131	1	15	
(cis) 1,2-Dichloroethene	0.0542	0.0535	0.0500	0.0500	108	107	71-136	1	15	
1,2-Dichloroethane	0.0536	0.0531	0.0500	0.0500	107	106	70-133	1	15	
Trichloroethene	0.0552	0.0545	0.0500	0.0500	110	109	80-130	1	15	
Tetrachloroethene	0.0574	0.0577	0.0500	0.0500	115	115	80-130	1	15	
Surrogate:										
Dibromofluoromethane					101	103	69-124			
Toluene-d8					98	98	80-118			
4-Bromofluorobenzene					101	102	75-123			
Laboratory ID:	SB12	02S1								
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	0.0510	0.0501	0.0500	0.0500	102	100	52-141	2	20	
(trans) 1,2-Dichloroethene	0.0542	0.0542	0.0500	0.0500	108	108	74-131	0	15	
(cis) 1,2-Dichloroethene	0.0557	0.0548	0.0500	0.0500	111	110	71-136	2	15	
1,2-Dichloroethane	0.0573	0.0560	0.0500	0.0500	115	112	70-133	2	15	
Trichloroethene	0.0539	0.0558	0.0500	0.0500	108	112	80-130	3	15	
Tetrachloroethene	0.0556	0.0571	0.0500	0.0500	111	114	80-130	3	15	
Surrogate:										
Dibromofluoromethane					106	104	69-124			
Toluene-d8					100	98	80-118			
4-Bromofluorobenzene					103	103	75-123			

Laboratory Reference: 2411-303

Project: 02-0266-A

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
GMW8-1	11-303-03	5	12-2-24
GMW8-22	11-303-08	6	12-2-24
GMW8-60	11-303-21	23	12-2-24
B11-8	11-303-25	8	12-2-24
B11-25	11-303-31	9	12-2-24
B11-55	11-303-38	23	12-2-24



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.

Z -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference





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Chromatograms with final report (X) Electronic Data Deliverables (EDDs)	Data Package: Standard X Level III ☐ Level IV ☐					Voas frozen	Comments/Special Instructions												PAHs & Organo	ow-leves 3270/S	horus F cid Her fetals fetals	-level)	s 8270	/SIM		11-303

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December 5, 2024

Megan Poysnick Atlas GeoSciences NW PO Box 1009 Sumner, WA 98390

Re: Analytical Data for Project 02-0266-A Laboratory Reference No. 2411-323

Dear Megan:

Enclosed are the analytical results and associated quality control data for samples submitted on November 22, 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: December 5, 2024 Samples Submitted: November 22, 2024 Laboratory Reference: 2411-323

Project: 02-0266-A

Case Narrative

Samples were collected on November 21, 2024 and received by the laboratory on November 22, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°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.

Laboratory Reference: 2411-323

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D

Matrix: Water Units: ug/L

4-Bromofluorobenzene

94

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B11					
Laboratory ID:	11-323-01					
Vinyl Chloride	ND	2.0	EPA 8260D	12-2-24	12-2-24	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-2-24	12-2-24	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-2-24	12-2-24	
1,2-Dichloroethane	ND	2.0	EPA 8260D	12-2-24	12-2-24	
Trichloroethene	ND	2.0	EPA 8260D	12-2-24	12-2-24	
Tetrachloroethene	270	2.0	EPA 8260D	12-2-24	12-2-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	98	68-133				
Toluene-d8	103	79-123				

78-117

Laboratory Reference: 2411-323

Project: 02-0266-A

VOLATILE ORGANICS EPA 8260D QUALITY CONTROL

Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1202W1					
Vinyl Chloride	ND	0.20	EPA 8260D	12-2-24	12-2-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-2-24	12-2-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-2-24	12-2-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-2-24	12-2-24	
Trichloroethene	ND	0.20	EPA 8260D	12-2-24	12-2-24	
Tetrachloroethene	ND	0.20	EPA 8260D	12-2-24	12-2-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	99	68-133				
Toluene-d8	100	79-123				
4-Bromofluorobenzene	100	78-117				

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB12	02W1								
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	8.45	8.68	10.0	10.0	85	87	67-130	3	15	
(trans) 1,2-Dichloroethene	9.11	9.59	10.0	10.0	91	96	77-125	5	15	
(cis) 1,2-Dichloroethene	9.06	9.57	10.0	10.0	91	96	78-130	5	15	
1,2-Dichloroethane	9.07	9.64	10.0	10.0	91	96	68-133	6	15	
Trichloroethene	12.0	12.3	10.0	10.0	120	123	80-126	2	15	
Tetrachloroethene	10.4	10.6	10.0	10.0	104	106	80-125	2	15	
Surrogate:										
Dibromofluoromethane					90	94	68-133			
Toluene-d8					102	99	79-123			
4-Bromofluorobenzene					98	98	78-117			



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.

Z -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference





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		lon 1552	26/ 3:50	OEIC HO	24 Z. 30	Time									Ø	Volatile	es 826 enated			P)		Laboratory Number:
Chr	Date	by 1552	35 SA	08:0 40	7 2,50 A										Ø	Volatile Haloge EDB E	es 826 enated PA 80°	Volatiles	ers Only)	P)		Number: 1
Chromat	Data Pac	lon 1552	164 3:5A	08:C 110	12 2,58 R										Ø	Volatile Haloge EDB E Semive (with le	es 826 enated PA 80° olatiles	Volatiles	ers Only)	P)		-
Chromatogran	Data Package	lon 1552	16 3:50	08:6 40	12 12 18 R		-								R	Volatile Haloge EDB E Semive (with le	es 826 enated PA 80 olatiles ow-lev	Volatiles 11 (Wate 8270/S el PAHs)	ers Only)	P)		11
Chromatograms wi	Data Package: Str	bm 1532	16/ 3:5a	08:C 110	2 2,28 R										Ø	Volatile Haloge EDB E Semive (with lo PAHs &	es 826 enated PA 80° olatiles bw-leve 8270/S	Volatiles 11 (Wate 8270/S el PAHs)	ers Only) IM -level))		11-3
Chromatograms with fin		bon 1532	16/ 3:52	08:Ch0	3 2.80 REAL										R	Volatile Haloge EDB E Semive (with le PAHs & PCBs =	es 826 enated PA 80 olatiles ow-leve 8270/S 8082 ochlori	Volatiles 11 (Wate 8 8270/S el PAHs) SIM (low-	IM -level	081	D/SIM		1
Chromatograms with final rep	Data Package: Standard N	bon 1532	3,52	121 JC/	2,20 R SE, 5										8	Volatile Haloge EDB E Semive (with le PAHs 8 PCBs C Organe	es 826 enated en	Volatiles 11 (Wate s 8270/S el PAHs) SIM (low-	ers Only) IIM III IIII IIII IIIIIIIIIIIIIIIIIII	081 es 8270	D/SIM		11-32
Chromatograms with final report	Standard N	bm 1532	164 3:5a	,	2.80 RESE, SE,	Time Comments/Special Instructions									X	Volatile Haloge EDB E Semive (with le PAHs 8 PCBs C Organe	es 826 enated PA 80 olatiles ow-leve 8270/S 8082 ochlori ophosp	Volatiles 11 (Wate s 8270/S el PAHs) SIM (low-	ers Only) IIM III IIII IIII IIIIIIIIIIIIIIIIIII	081 es 8270)/SIM		11-32
Chromatograms with final report ☑ Ele	Standard	bon 1532	3,52	121, 121 OC, 112,	2,28 RXX, 5E, C										(X)	Volatile Haloge EDB E Semive (with lo PAHs & Organo Organo Chlorin	es 826 enated PA 80 olatiles ow-levelevelevelevelevelevelevelevelevelev	Volatiles 11 (Wate s 8270/S el PAHs) SIM (low- ne Pesti phorus F Acid Her Metals	ers Only) IIM III IIII IIII IIIIIIIIIIIIIIIIIII	081 es 8270))/SIM		11-32
Chromatograms with final report ♥ Electroni	Standard M Level III	bon 1532	164 3:50	20 21	3 2.38 RXX, 5E, CV										(X)	Volatile Haloge EDB E Semive (with le PAHs 8 PCBs i Organe Organe Chlorir Total R	es 826 enated PA 80: PA	Volatiles 11 (Wate 8 8270/S el PAHs) SIM (low- ine Pesti bhorus F Acid Her Metals	ers Only) IIM III IIII IIII IIIIIIIIIIIIIIIIIII	081 es 8270) D/SIM		11-32
Chromatograms with final report ଐ Electronic Data D	Standard M Level III	bon 1532	164 3:5A	,	0 RXXE, 5E, COL										X	Volatile Haloge EDB E Semive (with le PAHs 8 PCBs Organe Organe Chlorir Total R Total M	es 826 enated PA 80: olatiles obve-leve 8270/S 8082 ochlori opphosp ated A GCRA M MTCA M Metals	Volatiles 11 (Wate 8 8270/S el PAHs) SIM (low- ine Pesti bhorus F Acid Her Metals	ers Only) IIM -level) icides 80 Pesticides	081 es 8270) D/SIM		11-32
Chromatograms with final report 🗓 Electronic Data Delivers	Standard M Level III	bon 1532	164 3:5a	20 21	3 2:30 RESE, TE, Cotras										(X)	Volatile Haloge EDB E Semive (with le PAHs 8 PCBs Organe Organe Chlorir Total R Total M	es 826 enated PA 80: olatiles obve-leve 8270/S 8082 ochlori opphosp ated A GCRA M MTCA M Metals	Volatiles 11 (Wate 8 8270/S el PAHs) SIM (low- ine Pesti bhorus F Acid Her Metals	ers Only) IIM -level) icides 80 Pesticides	081 es 8270) D/SIM		11-32
Chromatograms with final report ☑ Electronic Data Deliverables	Standard 🕅 Level III 🗆 Level IV	bon 1532	164 3:50	20 21	0 RXXE, 5E, COL										(X)	Volatile Haloge EDB E Semive (with le PAHs 8 PCBs Organe Organe Chlorir Total R Total M	es 826 enated PA 80: olatiles obve-leve 8270/S 8082 ochlori opphosp ated A GCRA M MTCA M Metals	Volatiles 11 (Wate 8 8270/S el PAHs) SIM (low- ine Pesti bhorus F Acid Her Metals	ers Only) IIM -level) icides 80 Pesticides	081 es 8270) D/SIM		11-32
Chromatograms with final report ଐ Electronic Data Deliverables (EDDs) ⅓	Standard 🕅 Level III 🗆 Level IV	bon 1532	164 3:5A	20 21	0 RXXE, 5E, COL										(X)	Volatile Haloge EDB E Semive (with le PAHs 8 PCBs Organe Organe Chlorir Total R Total M	es 826 enated PA 80: olatiles obve-leve 8270/S 8082 ochlori opphosp ated A GCRA M MTCA M Metals	Volatiles 11 (Wate 8 8270/S el PAHs) SIM (low- ine Pesti bhorus F Acid Her Metals	ers Only) IIM -level) icides 80 Pesticides	081 es 8270	D/SIM		11-32