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TECHNICAL MEMORANDUM

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SUBJECT: Everett Smelter Area B1
Independent Action Evaluation Memorandum

1. Introduction and Objective

Haley & Aldrich, Inc. (Haley & Aldrich) has prepared this memorandum on behalf of the Washington State Department of Ecology (Ecology). This memorandum presents the findings from the September 2024 Independent Action Data Gaps Investigation conducted by Haley & Aldrich at the Everett Smelter Lowland Area B1 (the site) in northeast Everett, Washington (Figure 1). This data gaps investigation was specifically focused on Area B1, also known as the Former Benson Subarea.

2. Background and Summary of Available Historical Information

This section presents a brief description of the site, its history, its physical setting, and results of previous environmental activities. Additional information about the site was obtained from the Final Supplemental Remedial Investigation and Feasibility Study Report (SRI/FS [Vol. 2]) for the Everett Smelter Lowlands Area (GeoEngineers, 2016a) and the Final Cleanup Action Plan (CAP) for the Lowlands Area (GeoEngineers, 2016b), and from other publicly available sources.

2.1 GENERAL SITE INFORMATION

The approximately 250-acre Lowland Area is generally situated between Marine View Drive and the Snohomish River and is located east of the Everett Smelter Upland Area, where a former smelter facility operated from approximately 1892 to 1912. The approximately 12-acre Area B1 site is located adjacent to, and east of, the former smelter facility. The site also includes the Weyerhaeuser Bridge Road right-of-way (ROW) that traverses the subarea, the eastern portion of the East Marine View Drive ROW, and a portion of the Pacific Highway/State Route 529 ROW. The Area B1 is bounded on the east by the Burlington Northern Santa Fe (BNSF) railroad ROW and Viola Oursler Park to the south.

The data gaps investigation work is focused on a subarea within the Area B1 boundary where the Property Owner (Kristine J. Marshall Benson & Wolken Properties, LLC.) imported and placed fill material (south end on Figure 1) with limited to no environmental characterization data from various construction and development sites between 2007 and 2017. Sections 2.2.1 and 2.2.5 discuss the fill location and elevation at the time of the SRI.

2.2 SUPPLEMENTAL PREVIOUS ENVIRONMENTAL INVESTIGATIONS AND OBJECTIVES

Multiple investigations have been conducted at the Everett Smelter Site between 1995 and 2022 that produced data characterizing the conditions in the Lowland Area, including the following.

- 1995 Remedial Investigation, Everett Smelter Site (Hydrometrics, 1995)
- 1996 Supplemental Investigation of the Everett Smelter Site Lowland Area (Hydrometrics, 1996)
- 1996 Smelter Area Investigation Report, Everett Smelter Site (Asarco, 1998)
- 1999 Integrated Cleanup Action Plan and Final Environmental Impact Statement for the Upland Area (Ecology, 1999)
- 2000 Comprehensive Lowland Area Remedial Investigation Report for the Everett Smelter Site (Asarco, 2000)
- 2010 Everett Smelter Site – Draft Lowland Area Site Conditions and Data Gaps Report (Science Applications International Corporation, 2010)
- 2016 Everett Smelter Site, Lowland Area – Supplemental Remedial Investigation and Feasibility Study Report (GeoEngineers, 2016a)
- 2016 Everett Smelter Site, Lowland Area – Final Cleanup Action Plan (GeoEngineers, 2016b)
- 2022 Permeability Evaluation at East Marine View Drive and Butler Street (Earth Solutions NW LLC [ESNW]; Appendix A)

2.2.1 Supplemental Remedial Investigation and Feasibility Study Report

The SRI/FS report summarizes the investigations performed between 1995 and 2014 (GeoEngineers, 2016a). Of the metals detected above their respective preliminary cleanup levels (PCULs) in the SRI/FS report, arsenic, lead, and mercury were identified as the indicator hazardous substances (IHSs) in soil.

Although cadmium, chromium, copper, thallium, and zinc were also detected exceeding their respective PCULs, they were not selected as IHSs. More details about the selection of IHSs are described in the GeoEngineers SRI/FS report. The FS (Vol. 2 of SRI/FS) for the Lowland Area developed and evaluated multiple remedial action alternatives to address the IHSs present in media at concentrations greater than cleanup levels (CULs; GeoEngineers, 2016a).

2.2.2 Final Cleanup Action Plan

The Final CAP further built upon the preferred alternative identified in the FS and describes the proposed cleanup action for the Lowland Area. The CAP also establishes the functional requirements that the cleanup must meet to achieve the Cleanup Action Objectives (CAOs) for the site (GeoEngineers, 2016b). The CAOs are chemical- and media-specific goals designed to protect human health and the environment, guide the development/evaluation of remedial alternatives, and primarily aim to eliminate, reduce, or control unacceptable risks from hazardous substances, in accordance with MTCA Cleanup Regulations, Sediment Management Standards regulations, and other relevant requirements. CAOs for the Lowland Area (CAP Table 5) focus on mitigating contaminant transport and exposure to protect human health, terrestrial ecological receptors, and marine/freshwater aquatic and benthic organisms.

2.2.3 Selected Remedial Action

The selected remedial action for Area B1 involves capping impacted soil and sediment to minimize exposure risks and limit stormwater infiltration that may cause contaminant leaching. The engineered cap will consist of a low-permeability cap with drainage controls (asphalt/concrete cap and/or a minimum of 1 foot of soil cover with underlying plastic or similar) over the portions of Area B1 that contain media (soil, slag/debris, and sediment in the surface water features) with contaminant concentrations greater than cleanup levels and that currently do not have protective capping/cover.

2.2.4 Extent of Soil Contamination in Benson Subarea of Area B1 from Previous Investigations

Figures 2 and 3 (Site Plan and Section A) summarize contaminants of concern (COCs) above PCULs and CULs.

Arsenic concentrations detected at the site ranged from 3 to 7,940 milligrams per kilogram (mg/kg). Elevated arsenic levels, exceeding the PCULs, were found in fill material from the surface down to the native surface soil and silt layers (GeoEngineers, 2016a). The highest arsenic concentrations were generally observed at depths between 5 and 15 feet below ground surface (bgs) and were comprised of fill, native surface soil, and slag or fill containing slag. Arsenic with concentrations greater than the PCULs in fill and native surface soil at the site is bounded by underlying silt with concentrations less than the PCULs.

Lead concentrations detected in the Benson Subarea range from 2 to 24,230 mg/kg (GeoEngineers, 2016a). Similar to arsenic, lead levels exceeding the PCULs were found in fill material from the surface down to the native surface soil and silt layers. The highest lead concentrations were generally observed

from the surface to depths of between approximately 15 and 20 feet bgs; however, elevated lead concentrations were also detected at greater depths within the embankment for the Weyerhaeuser Bridge Road. Lead concentrations generally decreased with increased distance from the slag in the central portion of the B1 Area.

Mercury was detected in soil samples but at concentrations below the PCULs (GeoEngineers, 2016a).

2.2.5 Unknown Fill Imported by Property Owner

Grades on the site have changed significantly over the years. Older fill (dredged from Snohomish River, Section 3.3.3) was placed over alluvium prior to 2007 (Old Fill; GeoEngineers, 2016a). Between May 2007 and March 2017, the Property Owner imported soil material from several different construction and development sites (Table 1; New Fill). There were 15 different fill soil sources ranging in volume from 33 to 43,802 cubic yards (140,679 cubic yards total). The soil source sites generally consisted of the following types:

- two industrial sites,
- five commercial sites,
- two undeveloped sites, and
- six mixed historical use sites (commercial/industrial/residential).

Haley & Aldrich reviewed Ecology-provided information and reports from these 15 sites. Placement location of this import material onto the site was not sufficiently documented by the Property Owner to know at what lateral location or depth the material from each site was placed. Based on figures and cross-sections in the SRI/FS (and Figures 2, 3, and Appendix E), the top of the Old Fill is at an elevation of about 20 feet (see Section 3.3.3 for fill description) and slopes to the north down to an elevation of about 18 feet (all elevations herein are referenced to the North American Vertical Datum of 1988 unless otherwise noted). Figure 4-1 in the SRI/FS indicates topography in the Benson Subarea (appears to be 2009 Light Detection and Ranging (LiDAR) data from Snohomish County GIS 2012) with ground surface elevations from about 20 to 35 feet (North to South, respectively). Current topography from Snohomish County Planning and Development Services (PDS) map portal (2019 LiDAR) indicates ground surface elevations in this area range from about elevation 20 to 50 feet (North to South, respectively). Comparing topography in the SRI/FS to current PDS topography (Figure 2), about 10 to 15 feet of additional New Fill was placed on site after 2009. No additional fill appeared to be placed on the slope along the east side of the site. Based on Section A (Figure 3) and Section B (Appendix E) the total thickness of the New Fill is not present at the north edge of the Benson Subarea, but is about 30 feet thick at the south end of the Benson Subarea.

Table 1 summarizes the fill source locations, known environmental COCs related to the source location or historical source activities, and other relevant details. Six of the source sites lacked data on COCs; however, the majority of source sites had one or more of the following: petroleum hydrocarbons, metals, volatile organic compounds (VOCs), and semivolatile organic compounds (SVOCs) listed as COCs. Polychlorinated biphenyls (PCBs) were tested at some source sites, but were detected at levels below

applicable Model Toxics Control Act (MTCA) CULs. One historical source site noted the presence of commercial pesticides in an old Phase I Environmental Site Assessment (ESA) report (Environmental Partners, Inc., 2011). Additionally, two other undeveloped source sites could have potentially had pesticides applied to them historically (no samples were tested for pesticides at these historical source sites however). Since the Area B1 site is vegetated and adjacent to several major ROWs, it is possible that some pesticides have been applied to the site over the years.

Figures 2 and 3 (Site Plan and Section A) summarize COCs above PCULs and CULs.

2.2.6 2022 Permeability Evaluation by Property Owner

A permeability evaluation for Benson Subarea including six test pits and soil gradations was completed in 2022 (ESNW, 2022) on behalf of the Property Owner. The report and ESNW soil logs are provided as Appendix A (additional details are discussed in Section 5.4.1 below). The Permeability Evaluation Report indicated that the fill soil encountered at the test pit locations effectively meets the criteria for a low-permeability liner, based on the in situ qualitative density and the grain-size analysis results as compared to the 2019 Washington State Department of Ecology Stormwater Management Manual for Western Washington (SWMMWW; Ecology), which has since been superseded. See Section 5.4.1 for comparison of this work to current field and lab permeability testing.

3. Data Gaps Investigation

3.1 DATA GAPS

The suitability of the unknown fill material as an engineered cap is the focus for this Independent Action Evaluation Memorandum. The CAP requirements for the engineered cap are listed in Section 2.2.3, which include a low-permeability cap and drainage controls over portions of Area B1 that contain media with contaminant concentrations above applicable CULs/PCULs and that currently do not have protective capping/cover (GeoEngineers, 2016b).

Existing information and historical documents for Area B1 were reviewed, especially the SRI/FS and CAP reports to determine gaps in the data needed to assess fill suitability. The following data gaps were identified to be addressed by the scope of work presented in the Independent Action Data Gaps Investigation Work Plan (Haley & Aldrich, 2024).

- **Data Gap 1.** No analytical data was available for the imported fill material in the Benson Subarea. Analytical analysis for Area B1 IHSs as well as possible contaminants based on fill sources were needed to determine whether imported material is viable for use as a cap.
- **Data Gap 2.** Unknown lateral extent and depth of fill within the Benson Subarea.
- **Data Gap 3.** Geotechnical data gaps include determining adequacy of the slope stability of the eastern slope of the independent action fill area (slope stability analysis at one section), evaluating City of Everett steep slope critical areas, and geotechnical suitability of the new fill as a cap (e.g., low permeability) .

3.2 FIELD INVESTIGATION ACTIVITIES AND OBSERVATIONS

Field investigation activities were coordinated with subcontractors, including a subsurface utility locator, driller, analytical laboratory, and investigation-derived waste hauler to complete this work. Before field activities began, the Underground Public Utility Notification Center was notified, and boring locations were cleared for subsurface utilities by private and public utility locators.

In general, the field investigation was completed as scoped with no notable deviations from the work plan. Exploration logs are in Appendix B, environmental analytical lab test results are discussed in Section 4 (summarized in Table 2 and lab results provided in Appendix C), and geotechnical lab results are in Appendices D and F.

3.2.1 Drilling and Subsurface Soil Sampling

In September 2024, Haley & Aldrich completed six borings (HA-B-1, HA-B-2, HA-B-3, HA-B-4, HA-B-5, and HA-B-6). The borings were advanced by Holt Services Inc. (Holt) using a truck-mounted drill rig, and advanced with a hollow stem auger in 5-foot intervals. The maximum depth of drilling and sample collection was 31.5 feet bgs. Environmental and/or geotechnical samples were generally collected at 2.5- to 5-foot intervals; however, some additional samples were collected at shorter intervals. Of the 35 soil samples submitted to OnSite Environmental Inc. (OnSite), nineteen environmental soil samples were chosen to be analyzed for chemical analysis (Table 2). All nineteen environmental samples were analyzed for total petroleum hydrocarbons – diesel range and heavy oil ranges (TPH-D and TPH-O, respectively) and gasoline range (TPH-G); VOCs; SVOCs; and total metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, and zinc). Three of the total metals samples (HA-B-3-S-3 [5-6.5 feet bgs], HA-B-4-S-1 [0-1.5 feet bgs], and HA-B-5-S-2 [5-6.5 feet bgs]) were also analyzed for PCBs and pesticides. Analytical soil data and sample depths for selected samples for analysis are provided in Table 2.

Eighteen soil samples were submitted for geotechnical lab testing to characterize soil type, gradation, and plasticity within the Area B1 fill volume (Appendix D). Environmental and geotechnical samples were collected at the same locations since they were collected from the same split-spoon sampler, unless geotechnical samples were collected from soil cuttings denoting a soil type change.

Borings were abandoned by filling with hydrated bentonite chips or with bentonite grout to the surrounding grade, in general accordance with the Minimum Standards for Construction and Maintenance of Wells (WAC 173-160). Per the scope, no wells were installed in the borings.

3.2.2 Test Pits and Subsurface Soil Sampling

In October of 2024, Haley & Aldrich completed six test pit explorations. These test pits were advanced by Holt, and advanced to a maximum depth of 15 feet bgs. Environmental and/or geotechnical samples were generally collected at 2.5 to 5-foot intervals. Of the 19 samples submitted to OnSite, 12 environmental soil samples were chosen for chemical analysis. All 12 samples were analyzed for TPH-D, TPH-G, VOCs, SVOCs, and total metals (As, Cd, Cr, Cu, Pb, Hg, Ni, and Zn), and three of those samples (HA24-TP2-10, HA24-TP5-5.0, and HA24-TP6-15) were also analyzed for PCBs and pesticides at

depths of 10 (elevation 18.9 feet), 5 (elevation 25.6) , and 15 feet bgs(elevation 3.6 feet), respectively. Analytical soil data and sample depths are provided in Table 2.

Four composite samples (0 to 5 feet bgs) and bag soil samples were also submitted for geotechnical lab testing to characterize soil type, gradation, proctor, and permeability within the Area B1 fill volume (Appendices D and F). Environmental and geotechnical samples were generally collected at the same location. Additional geotechnical samples were collected if a soil type change was observed.

Test pits were abandoned by backfilling with the material that was excavated. Soil backfill was placed in lifts less than about 2 feet up to surrounding grade. Each lift was tamped down with several passes of the excavator bucket to a generally firm and unyielding condition.

3.3 GEOLOGY AND HYDROGEOLOGY

Our understanding of site geology and hydrogeology is based on explorations completed by Haley & Aldrich in 2024, and historical studies completed by GeoEngineers (2016a, 2016b). The 2024 Haley & Aldrich exploration logs are provided in Appendix B.

3.3.1 Geology

According to the Washington Interactive Geologic Map, the surface geologic unit map at the site is on the contact line of Pleistocene continental glacial drift and Quaternary Alluvium (Washington State Department of Natural Resources, 2023). Pleistocene continental glacial drift is generally composed of outwash silt, clay, and sand with varying amounts of gravel. Quaternary Alluvium is generally consisted of unconsolidated or semi-consolidated sand, silt, and clay with varying amounts of gravel. The alluvium is consistent with the channel deposits in SRI/FS report.

Up to 10 feet of material dredged from the Snohomish River was placed as fill over the native surface of the Lowland Area after smelter closure (Geoengineers, 2016b). The majority of this Old Fill consists of fine to coarse sands. Near-surface Old Fill includes gravely sand and crushed rock and is up to 5 feet thick. From approximately 2007 to 2017, the owner(s) of parcels in the Benson Subarea of at the south end of Area B1 conducted an independent action on the property, importing and placing approximately 140,000 cubic yards of material over an approximately 5-acre portion of the site (Figures 2 and 3). The thickness of this New Fill is discussed in Section 2.2.5 and fill soil types in Section 3.3.3. The historical cross-section from the SRI report compared to soil borings and test pits advanced by Haley & Aldrich is displayed on Figure 3.

Site subsurface conditions observed during the data gaps investigation explorations generally agree with subsurface conditions from previous site investigations.

3.3.2 Hydrogeology

The hydrogeology of the site consists of two aquifers present in the Lowland Area: a shallow, water-table aquifer that is present in the fill placed on the historical native surface and a deep confined

aquifer that is in the alluvium. The aquifers are separated by an aquitard that is comprised of silt, clay, and peat deposits.

Groundwater is influenced by the water level of the Snohomish River and seasonal precipitation. Flow in the Snohomish River is controlled by seasonal conditions. Maximum flows occur in the winter and minimum flows occur during the summer months.

One Haley & Aldrich Boring (HA24-B1) completed in September 2024 contacted groundwater at approximately 27 feet bgs (elevation 11 feet), and one of the Haley & Aldrich test pits (HA24-TP6) conducted in October 2024 contacted perched groundwater at approximately 10 feet bgs (elevation 9 feet).

3.3.3 Soil Conditions

The site soils generally consist of fill material underlain by silt underlain by alluvium. The soil layers observed during the field explorations program were broadly categorized into engineering soil units based on their engineering properties. In general, the soils observed in the explorations consist of the soil units described below. The silt and alluvium are based on the GeoEngineers report (GeoEngineers, 2016b).

- **New and Old Fills.** The site is generally underlain by a layer of new and old fill, consisting of a mixture of loose to medium dense fine sand with varying amounts of fines (silt or clay sized material passing the U.S. No. 200 sieve) and gravel. The New Fill is the focus of this study and is the material generally placed between 2007 and 2017 (Section 2.2.1) above elevation 18 to 20 feet (Section 2.2.5, Figure 3 [from Section C in SRI/FS GeoEngineers, 2016a]). The Old Fill was material that was dredged from the Snohomish River and placed over the native surface of the Lowland Area after smelter closure (GeoEngineers, 2016b). The contact between the New and Old Fill was not apparent in our explorations since the fill soil types, density and moisture are generally similar. Thus, the top elevation of the Old Fill noted above, based on fill records and topography from different dates, appears to be the best way to distinguish the different fills.
- **Silt.** Underlying the surficial fill is a silt layer according to the SRI/FS (GeoEngineers, 2016b). It appears to be encountered at the bottom of HA24-B2 and HA24-B3.
- **Alluvium.** Underlying the silt layer is Alluvium based on the SRI/FS (GeoEngineers, 2016b). It was not encountered in our explorations.

Appendices B and D include the explorations and geotechnical lab test results.

3.3.4 Observations

Material observations from the six borings and six test pits completed by Haley & Aldrich consisted of mostly fills consisting mostly of sand, silt, and small gravel. Construction debris such as fragments of concrete, asphalt, metal, glass, and brick were observed in several of the boreholes and test pits (HA24-B4, HA24-B6, HA24-TP1, HA24-TP2, HA24-TP4, HA24-TP6), occurring at depths at approximately

4 feet and below. The construction debris did not seem to have an apparent pattern of depth or lateral location.

Soil samples were field screened using sheen tests, visual and olfactory observations, and/or a photoionization detector (PID) to detect VOCs in the headspace. Subsurface soil observed during explorations generally did not have distinguishable odors or visible signs (color, sheen, etc.) of impacts, except HA24-TP6 (Section 4.1.1). A slight odor and a slight heavy sheen and slight petroleum-like odor was observed in material removed from approximately 10 feet (elevation 8.5 feet) and beyond within test pit HA24-TP6. During the advancement of the boreholes, moisture entered the PID due to wet weather conditions, making the PID temporarily inoperable or skewing the results high. Elevated PID readings were not observed in samples collected from the test pits.

4. Chemical Analytical Results

Under standard chain of custody procedures, environmental soil samples were submitted to OnSite for analyses. OnSite is a Washington State-accredited lab in Redmond, Washington. The analytical laboratory reports were reviewed and validated by a Haley & Aldrich technical specialist to ensure conformance with project standards, provide additional data qualifications as appropriate, and verify that the data are acceptable for the purposes of the project; this information is provided in the Data User Summary Report (DUSR). The DUSR and all laboratory reports are provided in Appendix C.

Selected soil samples were analyzed for one or more of the following analyses:

- TPH-D and TPH-O by Ecology Method NWTPH-Dx;
- TPH-G by Ecology Method NWTPH-Gx;
- SVOCs by U.S. Environmental Protection Agency (EPA) Method SW846 8270E and 8270SIM;
- VOCs by EPA Method EPA 8260D;
- Total metals (As, Cd, Cr, Cu, Pb, Hg, Ni, and Zn) by EPA Methods 6020B/1631E;
- PCBs by EPA Method SW8082A; and/or
- Pesticides by EPA Method 8081

Figure 2 displays the sampling locations and analytical results that exceed MTCA-based screening levels. Analytical data and the laboratory's internal quality assurance and quality control data were reviewed to assess whether they meet project-specific data quality objectives. The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned. Sample results are presented in the following section and provided in Table 2.

4.1 SOIL

During the data gaps investigation activities, 31 soil samples were analyzed for one or more of the analytes listed above. Analytical results were compared to MTCA Method B Soil to groundwater pathway CULs for protection of potable groundwater, MTCA Method C Industrial CULs for the protection

of direct contact, and site-specific CULs established in the CAP Report. Because there are no established MTCA Method B or MTCA Method C CULs for TPH, TPH was compared to the PCUL for the protection of drinking water (Ecology, 2024a). Two samples (HA24-TP6-10 and -15) from the base of test TP6 were collected from within the groundwater table and therefore screened against the MTCA Method B criteria for the saturated zone (rather than vadose zone).

The soil analytical results are described below and summarized in Table 2. Table 2 highlights exceedances CULs and distinguishes the Old versus New Fill. Figure 2 and Figure 3 show the sample exceedances at different locations, in different fill types, and the estimated fill boundaries and thicknesses.

4.1.1 Total Petroleum Hydrocarbons

TPH-D and TPH-O were analyzed in all 31 soil samples and the following was observed.

- TPH (the sum of TPH-D and TPH-O) was detected in seven samples (HA24-TP1-15, HA24-TP6-5.0, HA24-TP6-10, HA24-TP6-15, HA-B-1-S-5, HA-B-2-S-9, HA-B-4-S-1).
- The TPH in one sample (HA24-TP1-15) was detected at a concentration of 4,070 mg/kg, which is greater than the PCUL for the protection of drinking water of 2,000 mg/kg. A heavy sheen and some trash/debris (and possibly treated wood) was observed in the base of test pit number six (TP6), which had detections of TPH (but at concentrations below CULs).

4.1.2 VOCs

VOCs were analyzed in all 31 soil samples and the following was observed.

- VOCs were either not detected at or above laboratory reporting limits, or were detected at a concentration below applicable MTCA CULs.

4.1.3 SVOCs and PAHs

SVOCs were analyzed in all 31 soil samples, and carcinogenic polycyclic aromatic hydrocarbon (cPAH)-total toxic equivalent (TEQ) concentration was calculated. The following was observed.

- Benzo(a)pyrene was detected in 12 samples. The detection in one sample (HA24-TP6-10) was at a concentration of 14 mg/kg, which is greater than the MTCA Method B CUL for the protection of groundwater in saturated-zone soil of 0.19 mg/kg.
- 1-Methylnaphthalene was detected in four samples. The detection in one sample (HA24-TP1-15) was at a concentration of 0.29 mg/kg, which is greater than the MTCA Method B CUL for the protection of ground in vadose-zone soil of 0.0024 mg/kg. The detection in another sample (HA24-TP6-10) was at a concentration of 0.04 mg/kg, which is greater than the MTCA Method B CUL for the protection of groundwater in saturated-zone soil of 0.0024 mg/kg.
- Dibenzofuran was detected in one sample (HA24-TP6-10) at a concentration of 0.11 mg/kg, which is greater than the MTCA Method B protection of groundwater in saturated-zone soil of 0.076 mg/kg.

- Pyrene was detected in 15 samples. The detection in one sample (HA24-TP6-10) was at a concentration of 25 mg/kg above the MTCA Method protection of groundwater in saturated-zone soil of 16 mg/kg.
- cPAHs were detected in 14 samples and the calculated cPAH-TEQ was found in one sample (HA24-TP6-10) at a concentration of 18.8 mg/kg, which is greater than the MTCA Method B CUL protection of groundwater in saturated-zone soil of 3.9 mg/kg.
- All other SVOCs were either not detected at or above laboratory reporting limits, were detected at a concentration below applicable MTCA CULs, or were below applicable background concentrations.

4.1.4 Metals

Total metals (As, Cd, Cr, Cu, Pb, Hg, Ni, and Zn) were analyzed in all 31 soil samples and the following was observed.

- Arsenic was detected in all of the samples analyzed, but at concentrations less than applicable MTCA CULs.
- Cadmium was detected in three samples (HA24-TP3-10, HA24-TP6-10, and HA24-TP6-15) at concentrations between 0.97 and 9.6 mg/kg, which are greater than the MTCA Method CULs for protection of groundwater in saturated-zone soil and vadose-zone soil 0.035 and 0.69 mg/kg, respectively.
- Chromium was detected in all of the samples analyzed, but at concentrations less than applicable MTCA CULs.
- Copper was detected in all of the samples analyzed. Copper was detected in two samples (HA24-TP6-10 and HA24-TP6-15) at concentrations of 1,200 and 360 mg/kg, respectively, greater than the MTCA Method B CUL for the protection of groundwater in saturated-zone soil of 14.0 mg/kg.
- Lead was detected all of the samples analyzed. In two samples (HA24-TP6-10 and HA24-TP6-15) lead was detected at concentrations of 1,300 and 1,600 mg/kg, respectively, greater than the site-specific CUL of 1,000 mg/kg for soils below 1-foot bgs.
- Mercury was not detected at or above laboratory reporting limits.
- Nickel was detected in all the samples analyzed. In two samples (HA24-TP6-10 and HA24-TP6-15), nickel was detected at a concentration of 35 and 21 mg/kg, respectively, which is at or greater than the CUL for the protection of groundwater in saturated-zone soil saturated of 21 mg/kg.
- Zinc was detected in all the samples analyzed. In two samples (HA24-TP6-10 and HA24-TP6-15), zinc was detected at concentrations of 2,400 and 1,500 mg/kg, respectively, greater than the CUL for the protection of groundwater in saturated-zone soil of 300 mg/kg.

4.1.5 PCBs and Pesticides

PCBs and pesticides were analyzed in six soil samples and the following was observed.

- PCBs were either not detected at or above laboratory reporting limits or were detected at a concentration below applicable MTCA CULs.
- Pesticides were either not detected at or above laboratory reporting limits or were detected at a concentration below applicable MTCA CULs.

4.1.6 Exceedances within New Fill versus Old Fill

- Three samples (HA24-TP1-15, HA24-TP6-10, and HA24-TP6-15) collected from HA24-TP1 and HA-24-TP6 at depths within the Old Fill had detections of one or more analyte greater than applicable CULs.
- One sample (HA24-TP3-10) collected from HA24-TP3 at depths within the New Fill had detections of one or more analyte greater than applicable CULs.

5. Geotechnical Considerations

5.1 SLOPE STABILITY ANALYSIS

5.1.1 Stability Methods

Slope stability analyses were performed at south end of the site based on a site topographic map from David Evans and Associates (Cleanup Survey Topographical Mapping Limits, 17 January 2024). Section BB' shown on Figure 2 was selected as a critical section for slope stability analysis since it has some of the highest and steepest slopes.

Haley & Aldrich performed two-dimensional slope stability analyses using the SLIDE software package (Rocscience, 2023), which uses limit equilibrium methods. Limit equilibrium methods assume shear failure along a potential slip surface and calculates driving and resisting shear forces along that surface based on input soil parameters, topography, and groundwater levels. The resisting forces divided by the driving forces are the safety factor (SF) against sliding along a given slip surface. SF values of 1 or less indicate instability. Factors of safety are computed for various slip surfaces to determine the controlling, or critical, case. The computations used non-circular search methods, methods using force and moment equilibrium (i.e., Spencer and Morgenstern-Price analysis methods), and a minimum slip surface depth of 5 feet.

The Everett municipal code (EMC) for critical areas (EMC Chapter 19.37) does not appear to include SF requirements. Snohomish County Code (SCC) Chapter 30.62B.340 for landslide hazard critical areas required a minimum SF of 1.5 for static load conditions and a minimum SF of 1.1 for seismic (earthquake) conditions. The context for both EMC and SCC is development of residential homes or commercial building structures. Section 7.4 of the Washington State Department of Transportation (WSDOT) Geotechnical Design Manual (GDM; 2022) requires general slope stability analysis for

permanent cuts, fills, and landslide repairs to have a minimum static SF of 1.25 (not impacting critical structures). The GDM requires slopes adjacent to, but not supporting structures to have a minimum SF of 1.3. The GDM requires a minimum SF of 1.5 for slopes supporting, or where failure would impact, structures. Section 6-1.2 of the GDM requires fill slopes and embankments to be evaluated for seismic slope stability. However, slopes that do not impact structures are generally not mitigated for seismic slope stability (GDM Sections 6-1.2 and 6-4.3).

Since there are no occupied structures (i.e., so not a life safety concern) on or below the existing east slope of the Benson Subarea fill, we are using a target static SF of 1.3 and include seismic stability results for reference only. The railroad has side spur storage tracks at the bottom of the existing slope. However, there are about 13 side spur tracks adjacent to the site before the main haul tracks farther east. The side spur tracks are unlikely to be occupied during a design seismic (i.e., earthquake) event. There are many other nearby existing slopes along the railway and slopes above roads around the state for which seismic slope stability is not evaluated. A static SF of 1.3 is commonly considered adequate when occupied structures or critical transportation (i.e., bridge, single access highway, main/only rail line) are unlikely to be impacted.

5.1.2 Soil Properties

The site soil stability parameters are presented in Table 3, below, and are based on empirical correlations to Standard Penetration Test data (e.g., blow counts) from the HA24-B1 to HA-B5, Haley & Aldrich's experience with similar soils in similar geologic settings, and WSDOT GDM Section 5.8.3. These soil parameters are for slope stability only and unrelated to permeability in Section 5.4.

Table 3. Slope Stability Model Soil Parameters			
Soil Descriptions	Total Unit Weight (pcf) ^a	Friction Angle (degrees)	Cohesion (psf ^b)
New Fill	120	34	0
Old Fill	120	34	0
Silt	115	30	0
Alluvium	125	34	0
Notes: <i>a. pcf = pounds per cubic foot</i> <i>b. psf = pounds per square foot</i>			

5.1.3 Groundwater

Groundwater was modeled at about elevation 15 feet, which is based on the groundwater encountered during Haley & Aldrich's explorations at HA24-TP6 and the maximum average elevation at the Benson Subarea on Section C in GeoEngineers report (GeoEngineers, 2016a). Groundwater was not encountered in most of the current explorations other than HA24-TP6 and HA24-B1 at the time of drilling at about elevations 9 and 17 feet, respectively. Groundwater does not play a big factor in stability results since it is near the base of the slope at the critical Section B-B'.

5.1.4 Seismic Loading

The inertial effects on the slope due to seismic shaking were modeled in accordance with the American Association of State Highway and Transportation Officials (AASHTO) Bridge Design Specifications (2020) and AASHTO Seismic code (2011). The basis of design for AASHTO is the event with a 7-percent probability of exceedance in 75 years, which corresponds to a return period of 975 years (sometimes rounded to 1,000 years). The American Society of Civil Engineers hazard tool, and slope height correction for pseudostatic stability analysis (National Cooperative Highway Research Program [NCHRP], 2008, and NCHRP, 2008 – V2) were used to calculate the horizontal pseudostatic seismic coefficient (K_h) value of 0.23g. A relatively conservative slope height of 30 feet for the slope height correction was considered based on the typical size of the static surfaces.

5.1.5 Stability Results

Slope stability was analyzed using the methods, inputs, and assumptions described previously in this section. Slip surfaces with depths less than 5 feet were considered to be shallow surficial sloughing. The stability analysis figures are included in Appendix E showing the soil layers, topography, groundwater level, and resulting slip surfaces for static and seismic loadings. The results for static conditions indicate the current slope has a SF of 1.3, which meets target static SF of 1.3 by WSDOT GDM. In seismic conditions, the current slope only has SF of 0.8 and doesn't meet the required target seismic SF of 1.1. However, considering the existing slope doesn't support or impact occupied structures or critical transportation corridors as previously described (Section 5.1.1), slope mitigation is usually not required, per WSDOT GDM Sections 6-1.2 and 6-4.3. Additional slope mitigation methods can be considered if needed/required to achieve higher SF values, but this would require additional effort than originally planned.

5.2 CITY OF EVERETT GEOLOGIC CRITICAL AREA ITEMS

EMC Chapter 19.37.080 defines geologic critical areas as those with landslide hazards (Section A.1), seismic/liquefaction (Section A.2), and erosion hazards (Section A.3). The following sections discuss these areas.

5.2.1 Landslide Hazard Area

The east slopes of the Benson Subarea are as steep as about 2 horizontal to 1 vertical (2H:1V) or 50 percent, which Section A.1 would define a high landslide hazard. However, the fill was placed and compacted in lifts (based on typical earthwork practice to enable heavy construction equipment to work on the heights of fill placed and for trucks to travel over the fill as being placed) to achieve the 2H:1V east slopes. Springs or seepage have not been observed in the east slope. In addition, the slope stability results in Section 5.1.5 indicate adequate static SF values. The north slope of the fill is less than 25 percent, so is a low landslide hazard. The City of Everett Landslide Hazard Critical Area Map 2 maps the road embankment (i.e., Weyerhaeuser bridge approach) slopes as medium landslide hazard. These designations will have to be considered as part of cleanup design once cleanup methods are more well defined. However, the east fill slope does not appear to pose a high landslide hazard risk for static conditions as noted in Section 5.1.5.

5.2.2 Seismic/Liquefaction Hazard

The City of Everett Landslide Hazard Critical Area Map 1 indicates seismic liquefaction is likely east of, but not on the Benson Subarea. Since liquefaction is not a hazard on the site, it is not discussed further.

5.2.3 Erosion Hazard

The City of Everett Landslide Hazard Critical Area Map 3 maps the site as having low to very high/severe erosion potential, which is based on a combination of soil type and slope angle. Generally, the eastern steep slopes have higher erosion potential, so will require more care to address during design and construction. This will have to be factored into site cleanup plans, but we expect that standard temporary and permanent erosion control best management practices (BMPs; e.g., silt fences, straw wattles, covering stockpiles, check dams, swales, maximize maintaining existing and planting new vegetation, SWMMWW BMPs, etc.) will be feasible to control erosion during and after cleanup construction.

5.3 EVALUATE WHETHER REMEDIATION METHODS ARE A SLOPE STABILITY CONCERN FOR ROAD EMBANKMENT SLOPES

Road embankment slopes for State Route 529 (SR-529, north of Benson Subarea), Riverside Road/Weyerhaeuser Bridge (north of Benson Subarea), and East Marine View Drive (east edge of Benson Subarea) have been stable for a long period of time, are generally well/densely vegetated, and were either engineered cuts into native soil or were engineered fills placed and compacted in lifts as part of road design and construction (based on typical earthwork methods, duration slopes have been in use and stable, and based on typical WSDOT earthwork methods). Although they fit the geologic critical area designations above, the slopes should remain stable if cleanup design and construction is careful to minimize removal of vegetation and/or significant excavation into these embankment slopes. This also assumes that standard civil and geotechnical engineering input is employed during design and construction.

5.4 PERMEABILITY

The ability of the Benson Subarea fill to function as a low-permeability cap/cover is evaluated here. Section 6 discusses more general capping considerations and compares results from this section to various agency and guidance recommended criteria. The following sections discuss prior permeability evaluations and those in the current study.

5.4.1 2022 Permeability Evaluation

A historical permeability investigation was conducted by ESNW (2022) to evaluate the suitability of fill soils placed on site as a low-permeability layer to impede infiltration of surface water. The basis of evaluation used was criteria for design of a low-permeability compacted glacial till liner found in Section V-1.3.1 of the 2019 SWMMWW (superseded by 2024 SWMMWW, Ecology 2024b). This section specifies minimum liner thickness, soil compaction, permeability, placement, and gradation of glacial till soils.

ESNW completed eight test pits in August 2022 to depths of 5.5 to 12 feet bgs, (approximate elevations 20 to 35 feet) and collected representative soil samples for grain size distribution analysis. The locations of these test pits are Figure 1 in Appendix A, and located in the same general vicinity of Figure 2. Soils encountered were generally silty sands and silts, with fines content of approximately 15 to 51 percent by weight (Table 4). Soils were described as dense, mechanically compacted, and consistent with compacted glacial till type soil. Groundwater was not encountered in any of the test pits.

Based on the observed soil density and comparing to soil gradation criteria Table V-1.3 in the 2019 SWMMWW, ESNW indicated that the existing fill soils met the criteria for a low-permeability till liner.

5.4.2 Current Study

Seventeen soil samples collected during drilling and test pit explorations were selected for grain size distribution analysis and plasticity testing. The soil samples were collected from depths of approximately 2.5 to 31.5 feet bgs. Soils were generally silty to clayey sands with variable gravel, sandy silts, and sandy clays (Appendix D). Fines content ranged from approximately 21 to 67 percent by weight (Table 4). Plasticity testing was performed on one sample (HA24-B2, S-3 at 10ft bgs), which had a liquid limit of 28 and plasticity index of 13. Soils were medium dense based on blow counts in our borings (Appendix B).

The grain size distribution data can be correlated with saturated hydraulic conductivity, K_{sat} , using empirical relationships, such as those found in the SWMMWW (2019, 2024) and WSDOT Highway Runoff Manual (HRM, WSDOT, 2019). Since the fill soils on site have been compacted, the methodology described in the HRM, Section 4D-4 was selected to estimate permeability (Allen, 2017; WSDOT, 2019). A summary of the grain size data and hydraulic conductivity is provided in Table 4.

For soils with less than about 25 percent fines content (percent passing the U.S. No. 200 sieve) and which did not have a D10 (diameter with 10 percent passing) value reported in the grain size analysis, a tangent line was extended from the tail of the distribution curve to estimate D10. The estimated saturated hydraulic conductivity, K_{sat} , ranged from 3.5×10^{-7} to 1.9×10^{-4} cm/sec (5.0×10^{-4} to 2.7×10^{-1} inches/hour). The geometric mean K_{sat} was 1.7×10^{-5} cm/sec (2.4×10^{-2} inches/hour).

Two permeability lab tests were performed on the New Fill by recompacting samples selected that have (visually) generally higher and lower fines content. Gradation tests were run on these samples too so that lab permeability can be related to permeability estimated based on gradation. According to the lab results, the samples generally have 30 percent of fines and K_{sat} was approximately 3.5×10^{-5} cm/s. These lab results are provided in Table 4 and Appendix F.

5.4.3 Comparison to Landfill Capping and Stormwater Design Guidance

The results of soil laboratory gradation tests, estimated K_{sat} values, and lab measure K_{sat} values are compared to the design criteria in the 2019 and 2024 SWMMWW and landfill capping design guidance in Table 4. Section 6 compares other capping considerations and guidance. In general, New Fill soils do not meet the fines content, plasticity, or permeability criteria for earthen liners in the 2024 manual, but

do meet the fines content criteria for the 2019 manual. K_{sat} estimates generally exceed the threshold by one to two orders of magnitude, fines contents are generally below 30 percent, and plasticity is marginally below the benchmark criteria.

Although the estimated permeability from grain size do not generally meet the 2024 SWMMWW liner criteria, several other factors are important and relevant:

- The average fines content meets criteria for both manuals.
- The thickness of the fill material above groundwater is between 5 and 22 feet, so much thicker than required in both manuals. In the three locations with exceedances during the data gaps investigation, there appears to be at least 5 feet of clean material above the samples that exceed CULs.
- Permeability of the Benson Subarea fill is less important as a cap to protect groundwater as stormwater does not flow onto this area since East Marine View Drive has a curb and storm drains directing flow elsewhere and the fill in this area is generally not impacted (Section 4). Additional permeability considerations for the suitability of the Benson Subarea fill as a cap are discussed below.

6. Capping Considerations

Engineered caps are generally intended to reduce infiltration of stormwater/surface water and/or prevent human and ecological receptor exposure to contaminated media. Per the CAP (Geoengineers, 2016b), capping is required to eliminate and/or minimize exposure risk and infiltration (i.e., low permeability) of stormwater through contaminated soil, which may cause leaching or migration of contaminants. To establish whether the New Fill material brought on site by the Property Owner is of sufficient quality to meet these cap requirements, Haley & Aldrich has compared the soil data with the CAP's general capping requirements and other agency landfill capping and stormwater liner requirements in Table 5. The subsections below discuss more specifics of these requirements and their relevance to the site and remedial action capping goals from the CAP.

6.1 FEDERAL LANDFILL COVER REGULATIONS

Table 5 is based on Federal Remediation Technologies Roundtable (FRTR) landfill cover guidance. The FRTR is a collaborative initiative among various U.S. federal agencies involved in contaminated site cleanup. Members include the EPA, the Department of Defense, the Department of Energy, and several others. The FRTR soil and landfill capping guidance primarily follows the Resource Conservation and Recovery Act (RCRA) regulations for Subtitle C and D landfills (hazardous waste and municipal solid waste, respectively) (Table 5, 2nd and 3rd columns). Subtitle D is essentially what the Washington Administrative Code (WAC) 173-351 adopted for municipal solid waste landfills. Subtitle C pertains to hazardous waste disposal facilities and WAC 173-303-665 - dangerous waste landfill regulations which are more comprehensive.

6.2 WAC LANDFILL COVER REGULATIONS

Capping/cover requirements for landfills in Washington State are generally covered by the following regulations.

- WAC 173-303-665: Dangerous Waste Landfills. As noted in Section 6.1, this is more comprehensive than the Subtitle C RCRA requirements. Table 5 notes key differences for capping by underlined text.
- WAC 173-351: Municipal Solid Waste Landfill requirements are essentially what the state implemented from RCRA Subtitle D.
- WAC 173-350-400: Limited Purpose Landfills can include a variety of waste types, but not municipal solid waste (WAC 173-351), inert wastes (WAC 173-350-410), dangerous wastes (WAC 173-303-665), nor PCB-containing materials.
- WAC 173-350-410: Inert Waste Landfills can only contain cured concrete, asphaltic materials, brick and masonry, ceramic materials produced from fired clay or porcelain, glass; and stainless steel and aluminum. These materials must not be contaminated (i.e., no hazard to people or the environment greater than inherent to the material).

Table 5 includes key capping requirements from these regulations.

6.3 SWMMWW POND LINER REQUIREMENTS

Liners are used in stormwater runoff and treatment management facilities to limit pollutants in stormwater from reaching groundwater. Low-permeability liners are described in the SWMMWW. A low-permeability liner reduces infiltration to a very low rate, generally lower than 1.4×10^{-5} centimeters per second (cm/sec.; 0.02 inches/hour). The SWMMWW uses a very low and conservative permeability rate since the manual is typically applied to industrial or commercial properties with potential for high pollutant loading in the stormwater runoff. These liners may be constructed from earthen materials, geomembranes, or concrete; and earthen liners are often preferred due to their low maintenance and resilience.

Section V-1.3.3 of the 2019 SWMMWW provides design criteria for low-permeability till liners. This section specifies minimum liner thickness (1.5 feet), soil compaction (95 percent ASTM International [ASTM] D1557), permeability (10^{-6} cm/sec.), placement, and gradation of glacial till soils (20 percent passing U.S. No. 200 sieve) used for low-permeability liners. SWMMWW Table V-1.3 describes soil gradation requirements for compacted till liners.

The SWMMWW was updated in 2024, and the language in Section V-1.3.3 was generalized to earthen liners. Section V-1.3.3 of the 2024 SWMMWW similarly describes revised design criteria for earthen liners, which include soils characteristics, compaction, thickness, grading, permeability, and gradation. The updated design criteria for soils used in earthen liners is in Table 5.

6.4 AGENCY CAPPING GUIDANCE COMPARED TO CAP CAPPING REMEDIAL ACTION GOAL

Given the that the Benson Subarea New Fill is generally not impacted, is not a landfill, and is not a stormwater pond; many of the landfill cap and stormwater liner guidance criteria noted above are not directly applicable to the New Fill itself. However, the CAP remedial action goal for site capping is to limit infiltration into underlying impacted soil that could leach COCs to groundwater. Comparison of the different guidance in Table 5 provides the following insights helpful for selecting site capping criteria. Key site fill contamination information is included as the last few items in the list below (discussed previously).

- Stormwater pond soil liner permeability is the same as Subtitle C, much greater than Subtitle D, but does not include a geomembrane like Subtitle C and D do.
- RCRA Subtitle D municipal landfill covers do not require a geomembrane unless needed so that cover permeability is lower than liner permeability, or if required by state regulations. WAC 173-351-500 municipal landfills do require a cover geomembrane.
- Limited purpose landfills only require a geomembrane, not a low-permeability layer.
- Inert waste landfills do not require either a geomembrane or a low-permeability layer.
- The Benson Subarea New Fill is generally not impacted per Section 2.2 and Section A, but the underlying Old Fill is generally impacted.
- The bottom of the Benson Subarea New Fill is generally about 5 feet above groundwater level and generally has at least 5 feet of clean material above observed impacts.

Based on review of the different agency landfill capping and stormwater liner guidance, Haley & Aldrich recommends Ecology consider adopting the following Benson Subarea capping criteria. Final selection of the capping criteria is planned to be determined and documented during project remedial design (i.e., engineering design report).

- Confirm the final use of the property to enable selection of appropriate capping methods or provide property use restrictions to assure long-term performance the CAP capping remedial action goals.
- Design and construct one of the following:
 - Option 1 - A low-permeability soil layer that:
 - Has a maximum permeability (saturated hydraulic conductivity), $K_{sat} \leq 10^{-5}$ cm/sec,
 - Is at least 24-inches thick, and
 - Is compacted to 95 percent of ASTM D698.
 - It may be possible to amend site soil to achieve this, but it would require special earthwork mixing methods and careful moisture control during extended dry weather, which may not be as economical and would require more quality control to ensure adequate performance.

- Option 2 - A lower permeability geomembrane (greater than or equal to 30 mils thick, greater than or equal to 60 mils if high-density polyethylene) or geosynthetic clay liner (minimum thickness and type to be determined during design) over existing soil with appropriate protection, drainage, and stability layers included in the design.
 - Option 3 - A composite cover with a geomembrane (minimum thickness and type to be determined during design) and low permeability soil layer ($\leq 10^{-5}$ cm/sec).
- All options above must:
 - Include an erosion protection layer that supports growth of vegetation (top 6 inches);
 - Control surface water run-on/runoff to limit, as much as practicable, surface erosion and infiltration; and
 - Account for slope stability where steep slopes must be capped (i.e., the east slope of the Benson Subarea).

7. Conclusion and Recommendations

Following the implementation of the data gaps investigation work plan, and evaluation of the gathered data from both an environmental and geotechnical perspective, the data gaps have been sufficiently addressed.

Data Gap 1. Limited environmental data for the unknown fill area.

- Borings and test pits were completed with sufficient lateral and vertical coverage (see Data Gap 2) within the Benson Subarea (i.e., New Fill area).
- Groundwater was encountered in only two of Haley & Aldrich's explorations.
- Soil analytical data was screened against the MTCA Method B values for the protection of potable groundwater, MTCA Method B Soil to groundwater pathway for protection of potable groundwater CULs, MTCA Method C Industrial CULs for the protection of direct contact, site-specific CULs established in the CAP Report, and/or PCULs for the protection of drinking water.
 - Soil impacts appear to be limited to the northern/northeastern most portion of the area (Test Pits TP-1, TP-3 and TP-6) between approximately 10 to 15 feet bgs (approximate elevations of 3.5 to 19 feet in TP-1 and TP-6 and 24 to 29 feet in TP-3).
 - Exceedances were primarily found in the Old Fill material (only one sample within the New Fill exceeded CULs).
 - Locations with exceedances above CULs generally had at least 5 to 10 feet of clean material above it.
- The majority of the New Fill area is acting as an acceptable cap from an environmental contact perspective. Limiting infiltration to underlying impacted media to limit leaching to groundwater would need to be addressed by options in Section 6.4, as determined during remedial design (i.e., the Engineering Design Report). The areas around TP-1, TP-3, and TP-6 will be addressed accordingly during the remediation design.

Data Gap 2. Unknown extent and depth of fill within and at the boundaries of the Benson Subarea.

- Explorations were planned to extend at least 5 feet below the contact between the New and Old Fill (about elevation 20 feet per Section C 2.2.5 and Figure 3). However, during Haley & Aldrich's explorations, some of the borings and test pits were extended about 10 feet below the top of the Old Fill contact since the contact was not apparent.
- Consistent and noticeable changes were not observed in soil density, color, type, or moisture that indicated depth and extent of the New Fill. The geotechnical lab results also do not indicate a clear difference between the New and Old Fill. Soil samples collected above the assumed contact (noted above) contained 5 to 30 percent of gravel, 30 to 70 percent of sand and 20 to 50 percent of fines, with moisture contents varying from 10 to 15 percent (Appendix D). Soil samples collected below assumed contact have similar gradations and moisture contents.
- Fill soil is inherently heterogeneous since it is not deposited by natural processes, which made it harder to distinguish the different fill types.
- The physical differences between the New and Old Fill are less important since the New Fill is generally not impacted above CULs, exists at the surface, and generally appears suitable for incorporating into cleanup remediation design (as described below).

Data Gap 3. Geotechnical data gaps including east slope stability, City geologic critical areas, and permeability.

- As discussed in Section 5.1, slope stability of the existing eastern slope of the Benson Subarea fill area meets WSDOT GDM slope and embankment criteria for static conditions, which are appropriate. Seismic stability of the east fill slope does not meet the seismic SF, but there is not an apparent City requirement for seismic slope stability. Since the existing slope does not impact occupied structures or critical transportation corridors, slope mitigation is likely not required.
- City geologic critical area concerns are discussed in Section 5.1, and can be adequately addressed during remedial design.
- Section 5.3 evaluated and discussed how cleanup methods for road embankment slopes can address both slope stability and geologic critical area concerns during design and construction.

7.1 SUITABILITY OF NEW FILL AS A CAP

City geologic critical area items of slope stability, landslide hazard, and erosion hazard were either addressed or can be addressed with typical design and construction care during the remedial design and construction.

While the New Fill material generally did not meet or exceed design criteria for earthen low permeability liners described in the 2024 SWMMWW, we believe the New Fill can be used with remedial design methods to protect groundwater. Low-permeability capping of the site is intended to reduce the likelihood for infiltration to leach COCs from underlying impacted soil to groundwater. The thickness and generally high fines content of the New Fill will limit infiltration.

Chemical analytical results of the soil indicate that the New Fill does not generally require cleanup (except for Test Pit TP-3 at 10 feet bgs). Due to minimal environmental impact from the recent fill, it is Haley & Aldrich's opinion that the fill in the Benson Subarea can be included in capping methods of the CAP and remedial design with low permeability remedial design Options 1 to 3 discussed in Section 6.4.

In general, the main objective of the CAP for Everett Smelter Lowland Area was to identify and outline strategies to remediate the contaminated lowland site(s) by reducing the levels of pollutants to levels that would sufficiently protect human health and the environment, and ensure the site can be used safely for its intended purpose in the future. The selected remedies in the CAP for Area B1, and the Benson Subarea specifically, are capping to protect human health and eliminate exposure risk and limit infiltration to impacted soil (in the Old Fill as determined in this work) that may leach COCs to groundwater. The CAP also anticipated that natural attenuation in groundwater will reduce residual deep groundwater contamination following implementation of the capping remedy. The potential source impacts found near the base of test pits along the northern edge of the Benson Subarea (likely in the Old Fill) could hinder the natural attenuation in groundwater and may need to be addressed as part of the remedial action. However, based on the findings of this data gaps investigation, it appears that the remaining portion of the Benson Subarea and independent fill action will sufficiently act as a source control remedy or cap.

Attachments:

Table 1 – Summary of Source Areas for New Fill

Table 2 – Analytical Results for Soil Samples

Table 4 – Comparison of Soil Characteristics to Low-Permeability Liner Design Criteria

Table 5 – Agency Capping Requirements and Relevance

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Figure 3 – Geologic Cross-Section A-A'

Appendix A – 2022 Earth Solutions Permeability Report

Appendix B – Haley & Aldrich Field Exploration Logs

Appendix C – Chemical Data Quality Review and Laboratory Reports

Appendix D – Geotechnical Lab Reports

Appendix E – Slope Stability Analysis Figures (Section B-B')

Appendix F – HWA Permeability results

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TABLES

TABLE 1

SUMMARY OF SOURCE AREAS FOR NEW FILL

EVERETT SMELTER AREA B1

EVERETT, WASHINGTON

Source Soil Job Name	Fill Volume (Cubic Yards)	Percent of Total Imported Fill	Dates of Soil Import	Site Type	Contaminants of Concern	Attachment
Hos Job Number 1564 Microsoft West	7,260	5.161%	between 23 May 2007 and 30 June 2007	M	ND (likely TPH, VOCs, SVOCs)	A
Hos Job Number 1560 Bentley Subdivision	8,184	5.817%	23 and 26 June 2007	U	ND	B
Hos Job Number 1606 Panattoni	2,882	2.049%	19 and 20 June 2008	I	TPH	C
Hos Job Number 1609 Overseas Subdivision	1,045	0.743%	1, 2, 10, 17, 24, and 31 July 2008	U	ND	D
Hos Job Number 1595 Bothell Safeway	12,408	8.820%	31 July 2008 and 9 September 2008	C	TPH	E
Hos Job 1624 Amazon Block 34	19,217	13.660%	February and March 2009	C	TPH, metals, SVOCs	F
Hos Job 1681 Amazon Block 35	43,802	31.136%	March 2011	C	TPH, metals, VOCs	G
Hos Job 1729 Avalon Bay	32,076	22.801%	June and August 2012	M	TPH, VOCs	H
Hos Job 1709 Time Oil Everett CC	2,134	1.517%	September and October of 2012	I	TPH, VOCs	I
Northwest Job 598 Providence	7,260	5.161%	February-March 2017	M	TPH	J
Northwest Construction Job 523 UW Animal Research	165	0.117%	2017	M	TPH, VOCs	K
Northwest Construction Job 591 Bayview Apartments	264	0.188%	March 2017	M	ND	L
Northwest Construction Job 590 Park Lane Apartments	33	0.023%	March 2017	C	ND	N/A
Northwest Construction Jobs 585 208 Rufus	3,762	2.674%	March 2017	C	TPH, SVOCs	M
Northwest Construction Job Number 548 Everett CC Parking	187	0.133%	March 2017	M	ND	N

Notes:*Facility Types**I = industrial**C = commercial**M = mix commercial/industrial/former residential: 6**U = undeveloped**Contaminant of Concern (COCs):**ND = no source data**TPH = total petroleum hydrocarbons (gas, diesel, and/or heavy oils)**VOCs = volatile organic compounds**SVOCs = semi-volatile organic compounds**% = percent*

TABLE 2
SUMMARY OF SOIL QUALITY DATA
EVERETT SMELTER AREA B1
EVERETT, WASHINGTON

Subfacility Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs) Sample Elevation (ft)	Action Level					
	Soil	Soil			HA-B-6	HA-B-6
	Protective of	Protective of		Site Specific Cleanup	HA-B-6-S-5	HA-B-6-S-6
	Groundwater	Groundwater		Levels(1) and	09/26/2024	09/26/2024
	Vadose at 13	Saturated	Soil Method C	Preliminary Cleanup	2409-379-34	2409-379-35
	degrees C	(Eq. 747-1)	Direct Contact	Levels (2)	10 - 11.5 (ft)	15 - 16.5 (ft)
	(Eq. 747-1)	(Eq. 747-1)			33.68 to 32.18 (ft)	28.68 to 27.18 (ft)
Volatile Organic Compounds (mg/kg)						
1,1,1,2-Tetrachloroethane	0.0098	0.00063	5000	NA	0.00099 U	0.001 U
1,1,1-Trichloroethane	1.5	0.084	7000000	NA	0.00099 U	0.001 U
1,1,2,2-Tetrachloroethane	0.0012	8.00E-05	660	NA	0.00099 U	0.001 U
1,1,2-Trichloroethane	0.017	0.0011	2300	NA	0.00099 U	0.001 U
1,1-Dichloroethane	0.041	0.0026	23000	NA	0.00099 U	0.001 U
1,1-Dichloroethene	0.046	0.0025	180000	NA	0.00099 U	0.001 U
1,1-Dichloropropene	NA	NA	NA	NA	0.00099 U	0.001 U
1,2,3-Trichlorobenzene	0.2	0.011	2800	NA	0.00099 U	0.001 U
1,2,3-Trichloropropane	2.40E-06	1.50E-07	4.4	NA	0.00099 U	0.001 U
1,2,4-Trichlorobenzene	0.56	0.029	4500	NA	0.00099 U	0.001 U
1,2,4-Trimethylbenzene	1.3	0.072	35000	NA	0.00099 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	0.00091	5.80E-05	160	NA	0.0049 U	0.0051 U
1,2-Dibromoethane (Ethylene Dibromide)	0.00027	1.80E-05	66	NA	0.00099 U	0.001 U
1,2-Dichlorobenzene	7	0.4	320000	NA	0.00099 U	0.001 U
1,2-Dichloroethane	0.023	0.0016	1400	NA	0.00099 U	0.001 U
1,2-Dichloropropane	0.025	0.0017	3500	NA	0.00099 U	0.001 U
1,3,5-Trimethylbenzene	1.3	0.071	35000	NA	0.00099 U	0.001 U
1,3-Dichlorobenzene	NA	NA	NA	NA	0.00099 U	0.001 U
1,3-Dichloropropane	0.88	0.057	70000	NA	0.00099 U	0.001 U
1,4-Dichlorobenzene	1.2	0.068	24000	NA	0.00099 U	0.001 U
2,2-Dichloropropane	NA	NA	NA	NA	0.00099 U	0.001 U
2-Butanone (Methyl Ethyl Ketone)	20	1.4	2100000	NA	0.0049 U	0.0051 U
2-Chloroethyl vinyl ether	NA	NA	NA	NA	0.0099 U	0.01 U
2-Chlorotoluene	1.9	0.11	70000	NA	0.00099 U	0.001 U
2-Hexanone (Methyl Butyl Ketone)	0.17	0.012	18000	NA	0.0049 U	0.0051 U
2-Phenylbutane (sec-Butylbenzene)	25	1.3	350000	NA	0.00099 U	0.001 U
4-Chlorotoluene	1.9	0.11	70000	NA	0.00099 U	0.001 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	2.7	0.19	280000	NA	0.0049 U	0.0051 U
Acetone	29	2.1	3200000	NA	0.014	0.047
Benzene	0.027	0.0017	2400	NA	0.00099 U	0.001 U
Bromobenzene	0.56	0.033	28000	NA	0.00099 U	0.001 U
Bromodichloromethane	0.033	0.0022	2100	NA	0.00099 U	0.001 U
Bromoform	0.36	0.023	17000	NA	0.0049 U	0.0051 U
Bromomethane (Methyl Bromide)	0.051	0.0033	4900	NA	0.0049 U	0.0051 U
Carbon disulfide	4.1	0.25	350000	NA	0.00099 U	0.001 U
Carbon tetrachloride	0.041	0.0022	1900	NA	0.00099 U	0.001 U
Chlorobenzene	0.86	0.051	70000	NA	0.00099 U	0.001 U
Chlorobromomethane	NA	NA	NA	NA	0.00099 U	0.001 U
Chloroethane	NA	NA	NA	NA	0.0049 U	0.0051 U
Chloroform (Trichloromethane)	0.074	0.0048	4200	NA	0.00099 U	0.001 U
Chloromethane (Methyl Chloride)	NA	NA	NA	NA	0.0049 U	0.0051 U
cis-1,2-Dichloroethene	0.079	0.0052	7000	NA	0.00099 U	0.001 U
cis-1,3-Dichloropropene	NA	NA	NA	NA	0.00099 U	0.001 U
Cymene (p-Isopropyltoluene)	NA	NA	NA	NA	0.00099 U	0.001 U
Dibromochloromethane	0.024	0.0017	1600	NA	0.00099 U	0.001 U
Dibromomethane	0.36	0.025	35000	NA	0.00099 U	0.001 U
Dichlorodifluoromethane (CFC-12)	38	0.53	700000	NA	0.00099 U	0.001 U
Ethylbenzene	5.9	0.34	350000	NA	0.00099 U	0.001 U
Hexachlorobutadiene	0.012	0.00063	1700	NA	0.0049 U	0.0051 U
Iodomethane	NA	NA	NA	NA	0.013 U	0.013 U
Isopropylbenzene (Cumene)	15	0.79	350000	NA	0.00099 U	0.001 U
m,p-Xylenes	NA	NA	NA	NA	0.002 U	0.002 U
Methyl Tert Butyl Ether (MTBE)	0.1	0.0072	73000	NA	0.00099 U	0.001 U
Methylene chloride (Dichloromethane)	0.022	0.0015	21000	NA	0.0049 U	0.0051 U
Naphthalene	4.5	0.24	70000	NA	0.0049 U	0.0051 U
n-Butylbenzene	14	0.71	180000	NA	0.00099 U	0.001 U
n-Propylbenzene	16	0.88	350000	NA	0.00099 U	0.001 U
o-Xylene	14	0.84	700000	NA	0.00099 U	0.001 U
Styrene	2.2	0.12	700000	NA	0.00099 U	0.001 U
tert-Butylbenzene	20	1	350000	NA	0.00099 U	0.001 U
Tetrachloroethene	0.05	0.0028	21000	NA	0.00099 U	0.001 U
Toluene	4.5	0.27	280000	NA	0.0049 U	0.0051 U
trans-1,2-Dichloroethene	0.52	0.032	70000	NA	0.00099 U	0.001 U
trans-1,3-Dichloropropene	NA	NA	NA	NA	0.00099 U	0.001 U
Trichloroethene	0.025	0.0015	1800	NA	0.00099 U	0.001 U
Trichlorofluoromethane (CFC-11)	23	0.79	1100000	NA	0.00099 U	0.001 U
Vinyl acetate	33	2.3	3500000	NA	0.0049 U	0.0051 U
Vinyl chloride	0.0017	9.00E-05	88	NA	0.00099 U	0.001 U
Xylene (Total)	14	0.83	700000	NA	0.002 U	0.002 U

TABLE 2
SUMMARY OF SOIL QUALITY DATA
EVERETT SMELTER AREA B1
EVERETT, WASHINGTON

Subfacility Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs) Sample Elevation (ft)	Action Level					
	Soil	Soil			HA-B-6	HA-B-6
	Protective of	Protective of			HA-B-6-S-5	HA-B-6-S-6
	Groundwater	Groundwater			09/26/2024	09/26/2024
	Vadose at 13	Vadose at 13	Soil Method C	Site Specific Cleanup	2409-379-34	2409-379-35
	degrees C	degrees C	Direct Contact	Levels(1) and	10 - 11.5 (ft)	15 - 16.5 (ft)
	(Eq. 747-1)	(Eq. 747-1)		Preliminary Cleanup	33.68 to 32.18 (ft)	28.68 to 27.18 (ft)
				Levels (2)		
Semi-Volatile Organic Compounds (3) (mg/kg)						
1,2,4-Trichlorobenzene	0.56	0.029	4500	NA	0.037 U	0.037 U
1,2-Dichlorobenzene	7	0.4	320000	NA	0.037 U	0.037 U
1,2-Dinitrobenzene	0.018	0.001	350	NA	0.037 U	0.037 U
1,2-Diphenylhydrazine	0.0037	0.0002	160	NA	0.037 U	0.037 U
1,3-Dichlorobenzene	NA	NA	NA	NA	0.037 U	0.037 U
1,3-Dinitrobenzene	0.018	0.001	350	NA	0.037 U	0.037 U
1,4-Dichlorobenzene	1.2	0.068	24000	NA	0.037 U	0.037 U
1,4-Dinitrobenzene	0.018	0.001	350	NA	0.037 U	0.037 U
1-Methylnaphthalene	0.047	0.0024	2600	NA	0.0074 U	0.0074 U
2,2'-oxybis(2-Chloropropane)	NA	NA	NA	NA	0.037 U	0.037 U
2,3,4,6-Tetrachlorophenol	4.6	0.27	110000	NA	0.037 U	0.037 U
2,3,5,6-Tetrachlorophenol	NA	NA	NA	NA	0.037 U	0.037 U
2,3-dichlorobenzenamine	NA	NA	NA	NA	0.037 U	0.037 U
2,4,5-Trichlorophenol	58	3	350000	NA	0.037 U	0.037 U
2,4,6-Trichlorophenol	0.092	0.0053	3500	NA	0.037 U	0.037 U
2,4-Dichlorophenol	0.33	0.021	11000	NA	0.037 U	0.037 U
2,4-Dimethylphenol	4.4	0.25	70000	NA	0.037 U	0.037 U
2,4-Dinitrophenol	0.13	0.0092	7000	NA	0.18 U	0.19 U
2,4-Dinitrotoluene	0.0044	0.00024	420	NA	0.037 U	0.037 U
2,6-Dinitrotoluene	0.00092	5.10E-05	88	NA	0.037 U	0.037 U
2-Chloronaphthalene	34	1.8	280000	NA	0.037 U	0.037 U
2-Chlorophenol	0.47	0.027	18000	NA	0.037 U	0.037 U
2-Methylnaphthalene	1.7	0.088	14000	NA	0.0074 U	0.0074 U
2-Methylphenol (o-Cresol)	8.1	0.47	180000	NA	0.037 U	0.037 U
2-Nitroaniline	1	0.064	35000	NA	0.037 U	0.037 U
2-Nitrophenol	NA	NA	NA	NA	0.037 U	0.037 U
3,3'-Dichlorobenzidine	0.013	0.00068	290	NA	0.18 U	0.19 U
3-Nitroaniline	NA	NA	NA	NA	0.037 U	0.037 U
4,6-Dinitro-2-methylphenol	0.024	0.0013	280	NA	0.18 U	0.19 U
4-Bromophenyl phenyl ether (BDE-3)	NA	NA	NA	NA	0.037 U	0.037 U
4-Chloro-3-methylphenol	22	1.2	350000	NA	0.037 U	0.037 U
4-Chloroaniline	0.0027	0.00017	660	NA	0.18 U	0.19 U
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	0.037 U	0.037 U
4-Nitroaniline	0.027	0.0017	6600	NA	0.037 U	0.037 U
4-Nitrophenol	NA	NA	NA	NA	0.037 U	0.037 U
Acenaphthene	49	2.5	210000	NA	0.0074 U	0.0074 U
Acenaphthylene	NA	NA	NA	NA	0.0074 U	0.0074 U
Aniline	0.083	0.0055	23000	NA	0.18 U	0.19 U
Anthracene	1100	57	1100000	NA	0.014	0.0074 U
Benzo(a)anthracene	NA	NA	NA	NA	0.032	0.0074 U
Benzo(a)pyrene	3.9	0.19	130	NA	0.036	0.0074 U
Benzo(b)fluoranthene	NA	NA	NA	NA	0.037	0.0074 U
Benzo(g,h,i)perylene	NA	NA	NA	NA	0.026	0.0074 U
Benzo(j,k)fluoranthene	NA	NA	NA	NA	0.013	0.0074 U
Benzyl Alcohol	7.1	0.49	350000	NA	0.18 U	0.19 U
bis(2-Chloroethoxy)methane	0.21	0.014	11000	NA	0.037 U	0.037 U
bis(2-Chloroethyl)ether	0.00022	1.40E-05	120	NA	0.037 U	0.037 U
bis(2-Ethylhexyl)adipate	290	15	110000	NA	0.18 U	0.19 U
bis(2-Ethylhexyl)phthalate	13	0.67	9400	NA	0.18 U	0.19 U
Butyl benzylphthalate (BBP)	13	0.65	69000	NA	0.18 U	0.19 U
Carbazole	NA	NA	NA	NA	0.037 U	0.037 U
Chrysene	NA	NA	NA	NA	0.029	0.0074 U
Dibenz(a,h)anthracene	NA	NA	NA	NA	0.0074 U	0.0074 U
Dibenzofuran	1.5	0.076	3500	NA	0.037 U	0.037 U
Diethyl phthalate	72	4.7	2800000	NA	0.18 U	0.19 U
Dimethyl phthalate	NA	NA	NA	NA	0.037 U	0.037 U
Di-n-butylphthalate (DBP)	57	3	350000	NA	0.18 U	0.19 U
Di-n-octyl phthalate (DnOP)	450	23	35000	NA	0.18 U	0.19 U
Fluoranthene	630	32	140000	NA	0.062	0.0074 U
Fluorene	51	2.6	140000	NA	0.0074 U	0.0074 U
Hexachlorobenzene	0.44	0.022	82	NA	0.037 U	0.037 U
Hexachlorobutadiene	0.012	0.00063	1700	NA	0.037 U	0.037 U
Hexachlorocyclopentadiene	1.5	0.081	21000	NA	0.24 U	0.24 U
Hexachloroethane	0.009	0.00053	2500	NA	0.037 U	0.037 U
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	0.026	0.0074 U
Isophorone	0.49	0.032	140000	NA	0.037 U	0.037 U
m,p-Cresols	NA	NA	NA	NA	0.037 U	0.037 U
Naphthalene, Total	NA	NA	NA	NA	0.0074 U	0.0074 U
Naphthalene	4.5	0.24	70000	NA	0.0074 U	0.0074 U
Nitrobenzene	0.1	0.0065	7000	NA	0.037 U	0.037 U
N-Nitrosodimethylamine	1.00E-06	7.00E-08	2.6	NA	0.037 U	0.037 U

TABLE 2
SUMMARY OF SOIL QUALITY DATA
EVERETT SMELTER AREA B1
EVERETT, WASHINGTON

Subfacility Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs) Sample Elevation (ft)	Action Level				Lowland Area							
	Soil Protective of Groundwater Vadose at 13 degrees C (Eq. 747-1)	Soil Protective of Groundwater Saturated (Eq. 747-1)	Soil Method C Direct Contact	Site Specific Cleanup Levels(1) and Preliminary Cleanup Levels (2)	HA24-TP6 HA24-TP6-15 10/04/2024 2410-140-03 15 (ft) 3.62 (ft)	HA-B-1 HA-B-1-S-3 09/27/2024 2409-379-01 5 - 6.5 (ft) 33.47 to 31.97 (ft)	HA-B-1 HA-FD-1 09/27/2024 2409-379-06 5 - 6.5 (ft) 33.47 to 31.97 (ft)	HA-B-1 HA-B-1-S-5 09/27/2024 2409-379-02 10 - 11.5 (ft) 28.47 to 26.97 (ft)	HA-B-2 HA-B-2-S-2 09/27/2024 2409-379-07 5 - 6.5 (ft) 39.08 to 37.58 (ft)	HA-B-2 HA-B-2-S-5 09/27/2024 2409-379-09 15 - 16.5 (ft) 29.08 to 27.58 (ft)	HA-B-2 HA-B-2-S-9 09/27/2024 2409-379-12 30 - 31.5 (ft) 14.08 to 12.58 (ft)	HA-B-3 HA-B-3-S-3 09/27/2024 2409-379-13 5 - 6.5 (ft) 43.07 to 41.57 (ft)
N-Nitrosodi-n-propylamine	0.00012	7.00E-06	19	NA	0.1 U	0.037 U	0.075 U	0.074 U	0.036 U	0.077 U	0.039 U	0.037 U
N-Nitrosodiphenylamine	1	0.052	27000	NA	0.1 U	0.037 U	0.075 U	0.074 U	0.036 U	0.077 U	0.039 U	0.037 U
Pentachlorophenol	0.016	0.00088	330	NA	0.5 U	0.29 U	0.6 U	0.59 U	0.29 U	0.61 U	0.2 U	0.29 U
Phenanthrene	NA	NA	NA	NA	0.11	0.0074 U	0.0075 U	0.26	0.0072 U	0.017	0.0078 U	0.0073 U
Phenol	37	2.3	1100000	NA	0.1 U	0.037 U	0.075 U	0.074 U	0.036 U	0.077 U	0.039 U	0.037 U
Pyrene	330	16	110000	NA	0.14	0.0074 U	0.0075 U	0.23	0.0072 U	0.025	0.0078 U	0.0097
Pyridine	0.043	0.0029	3500	NA	1 U	0.37 U	0.75 U	0.74 U	0.36 U	0.77 U	0.39 U	0.37 U
cPAHs-TEQ(4)	3.9	0.19	130	NA	0.18	0.0056 U	0.0057 U	0.11	0.0054 U	0.048	0.0059 U	0.0055 U
Total Petroleum Hydrocarbons (mg/kg)												
Diesel Range Organics	2000 (5)	2000 (5)	NA	NA	38 U	28 U	28 U	28 U	27 U	29 U	29 U	28 U
Gasoline Range Organics	NA	NA	NA	NA	11 U	5.9 U	5.8 U	5.2 U	5.3 U	5.1 U	5.9 U	5.5 U
Heavy Oil Range Organics	2000(5)	2000(5)	NA	NA	170	55 UJ	57 UJ	69 J	54 UJ	58 UJ	530 J	55 UJ
Diesel Range + Oil Range Organics	2000 (5)	2000 (5)	NA	NA	170	55 UJ	57 UJ	69 J	54 UJ	58 UJ	530 J	55 UJ
Inorganic Compounds (mg/kg)												
Arsenic(1)	2.9	0.15	88	20/88(a)	71	2.5	2.7	2.7	1.3	3	19	2.8
Cadmium (2)	0.69	0.035	3500	3500/550/14	6.1	0.55 U	0.57 U	0.56 U	0.54 U	0.57 U	0.59 U	0.55 U
Chromium (2)	2000	100	NA	1000000/820000/67	27	27	21	24	17	21	28	25
Copper (2)	280	14	140000	140000/22000/217	360	17	15	14	8	17	20	13
Lead(1)	3000	150	NA	118/1000(b)	1600	16 J	5.8 J	19	1.6	36	13	9
Mercury(1)	2.1	0.1	NA	5.5/1100(c)	0.38 U	0.28 U	0.28 U	0.28 U	0.27 U	0.29 U	0.29 U	0.28 U
Nickel (2)	420	21	70000	70000/77000/980	21	39	35	37	28	30	36	33
Zinc (2)	6000	300	1100000	1000000/160000/360	1500	36	30	43	20	55	48	38
PCBs (mg/kg)												
Aroclor-1016 (PCB-1016)	1.2	0.06	250	NA	0.075 U	-	-	-	-	-	-	0.055 U
Aroclor-1221 (PCB-1221)	NA	NA	NA	NA	0.075 U	-	-	-	-	-	-	0.055 U
Aroclor-1232 (PCB-1232)	NA	NA	NA	NA	0.075 U	-	-	-	-	-	-	0.055 U
Aroclor-1242 (PCB-1242)	NA	NA	NA	NA	0.075 U	-	-	-	-	-	-	0.055 U
Aroclor-1248 (PCB-1248)	NA	NA	NA	NA	0.075 U	-	-	-	-	-	-	0.055 U
Aroclor-1254 (PCB-1254)	0.057	0.0029	66	NA	0.075 U	-	-	-	-	-	-	0.055 U
Aroclor-1260 (PCB-1260)	0.36	0.018	66	NA	0.075 U	-	-	-	-	-	-	0.055 U
Aroclor-1262 (PCB-1262)	NA	NA	NA	NA	0.075 U	-	-	-	-	-	-	0.055 U
Aroclor-1268 (PCB-1268)	NA	NA	NA	NA	0.075 U	-	-	-	-	-	-	0.055 U
Sum of PCBs	0.34	0.017	66	NA	0.075 U	-	-	-	-	-	-	0.055 U
Pesticides (µg/kg)												
4,4'-DDD	340	17	550000	NA	15 U	-	-	-	-	-	-	11 U
4,4'-DDE	220	11	390000	NA	15 U	-	-	-	-	-	-	11 U
4,4'-DDT	3500	170	390000	NA	15 U	-	-	-	-	-	-	11 U
Aldrin	2.5	0.13	7700	NA	7.5 U	-	-	-	-	-	-	5.5 U
alpha-BHC	0.55	0.028	21000	NA	7.5 U	-	-	-	-	-	-	5.5 U
alpha-Chlordane (cis)	5400	270	1800000	NA	15 U	-	-	-	-	-	-	11 U
beta-BHC	2.3	0.12	73000	NA	7.5 U	-	-	-	-	-	-	5.5 U
delta-BHC	NA	NA	NA	NA	7.5 U	-	-	-	-	-	-	5.5 U
Dieldrin	2.8	0.14	8200	NA	15 U	-	-	-	-	-	-	11 U
Endosulfan I	NA	NA	NA	NA	7.5 U	-	-	-	-	-	-	5.5 U
Endosulfan II	NA	NA	NA	NA	15 U	-	-	-	-	-	-	11 U
Endosulfan sulfate	19000	970	21000000	NA	15 U	-	-	-	-	-	-	11 U
Endrin	440	22	1100000	NA	15 U	-	-	-	-	-	-	11 U
Endrin aldehyde	NA	NA	NA	NA	15 U	-	-	-	-	-	-	11 U
Endrin ketone	NA	NA	NA	NA	15 U	-	-	-	-	-	-	11 U
gamma-BHC (Lindane)	6.2	0.33	120000	NA	7.5 U	-	-	-	-	-	-	5.5 U
gamma-Chlordane	NA	NA	NA	NA	15 U	-	-	-	-	-	-	11 U
Heptachlor	19	0.95	29000	NA	7.5 U	-	-	-	-	-	-	5.5 U
Heptachlor epoxide	9.9	0.5	14000	NA	7.5 U	-	-	-	-	-	-	5.5 U
Methoxychlor	64000	3200	18000000	NA	15 U	-	-	-	-	-	-	11 U
Technical Chlordane	1300	64	380000	NA	75 U	-	-	-	-	-	-	55 U
Toxaphene	1500	76	120000	NA	75 U	-	-	-	-	-	-	55 U

TABLE 2
SUMMARY OF SOIL QUALITY DATA
EVERETT SMELTER AREA B1
EVERETT, WASHINGTON

Subfacility Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs) Sample Elevation (ft)	Action Level					
	Soil Protective of Groundwater	Soil Protective of Groundwater			HA-B-6 HA-B-6-S-5 09/26/2024 2409-379-34 10 - 11.5 (ft) 33.68 to 32.18 (ft)	HA-B-6 HA-B-6-S-6 09/26/2024 2409-379-35 15 - 16.5 (ft) 28.68 to 27.18 (ft)
	Vadose at 13 degrees C (Eq. 747-1)	Saturated (Eq. 747-1)	Soil Method C Direct Contact	Site Specific Cleanup Levels(1) and Preliminary Cleanup Levels (2)		
N-Nitrosodi-n-propylamine	0.00012	7.00E-06	19	NA	0.037 U	0.037 U
N-Nitrosodiphenylamine	1	0.052	27000	NA	0.037 U	0.037 U
Pentachlorophenol	0.016	0.00088	330	NA	0.18 U	0.19 U
Phenanthrene	NA	NA	NA	NA	0.041	0.0074 U
Phenol	37	2.3	1100000	NA	0.037 U	0.037 U
Pyrene	330	16	110000	NA	0.073	0.0074 U
Pyridine	0.043	0.0029	3500	NA	0.37 U	0.37 U
cPAHs-TEQ(4)	3.9	0.19	130	NA	0.047	0.0056 U
Total Petroleum Hydrocarbons (mg/kg)						
Diesel Range Organics	2000 (5)	2000 (5)	NA	NA	28 U	28 U
Gasoline Range Organics	NA	NA	NA	NA	5.2 U	5.8 U
Heavy Oil Range Organics	2000(5)	2000(5)	NA	NA	55 UJ	56 UJ
Diesel Range + Oil Range Organics	2000 (5)	2000 (5)	NA	NA	55 UJ	56 UJ
Inorganic Compounds (mg/kg)						
Arsenic(1)	2.9	0.15	88	20/88(a)	2.5	2.9
Cadmium (2)	0.69	0.035	3500	3500/550/14	0.55 U	0.56 U
Chromium (2)	2000	100	NA	1000000/820000/67	24	24
Copper (2)	280	14	140000	140000/22000/217	16	14
Lead(1)	3000	150	NA	118/1000(b)	19	3.3
Mercury(1)	2.1	0.1	NA	5.5/1100(c)	0.28 U	0.28 U
Nickel (2)	420	21	70000	70000/77000/980	35	42
Zinc (2)	6000	300	1100000	1000000/160000/360	46	30
PCBs (mg/kg)						
Aroclor-1016 (PCB-1016)	1.2	0.06	250	NA	-	-
Aroclor-1221 (PCB-1221)	NA	NA	NA	NA	-	-
Aroclor-1232 (PCB-1232)	NA	NA	NA	NA	-	-
Aroclor-1242 (PCB-1242)	NA	NA	NA	NA	-	-
Aroclor-1248 (PCB-1248)	NA	NA	NA	NA	-	-
Aroclor-1254 (PCB-1254)	0.057	0.0029	66	NA	-	-
Aroclor-1260 (PCB-1260)	0.36	0.018	66	NA	-	-
Aroclor-1262 (PCB-1262)	NA	NA	NA	NA	-	-
Aroclor-1268 (PCB-1268)	NA	NA	NA	NA	-	-
Sum of PCBs	0.34	0.017	66	NA	-	-
Pesticides (µg/kg)						
4,4'-DDD	340	17	550000	NA	-	-
4,4'-DDE	220	11	390000	NA	-	-
4,4'-DDT	3500	170	390000	NA	-	-
Aldrin	2.5	0.13	7700	NA	-	-
alpha-BHC	0.55	0.028	21000	NA	-	-
alpha-Chlordane (cis)	5400	270	1800000	NA	-	-
beta-BHC	2.3	0.12	73000	NA	-	-
delta-BHC	NA	NA	NA	NA	-	-
Dieldrin	2.8	0.14	8200	NA	-	-
Endosulfan I	NA	NA	NA	NA	-	-
Endosulfan II	NA	NA	NA	NA	-	-
Endosulfan sulfate	19000	970	21000000	NA	-	-
Endrin	440	22	1100000	NA	-	-
Endrin aldehyde	NA	NA	NA	NA	-	-
Endrin ketone	NA	NA	NA	NA	-	-
gamma-BHC (Lindane)	6.2	0.33	120000	NA	-	-
gamma-Chlordane	NA	NA	NA	NA	-	-
Heptachlor	19	0.95	29000	NA	-	-
Heptachlor epoxide	9.9	0.5	14000	NA	-	-
Methoxychlor	64000	3200	18000000	NA	-	-
Technical Chlordane	1300	64	380000	NA	-	-
Toxaphene	1500	76	120000	NA	-	-

TABLE 2
SUMMARY OF SOIL QUALITY DATA
EVERETT SMELTER AREA B1
EVERETT, WASHINGTON

Subfacility Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs) Sample Elevation (ft)	Action Level				
	Soil	Soil			HA24-TP1
	Protective of	Protective of		Site Specific Cleanup	HA24-TP1-5.0
	Groundwater	Groundwater		Levels(1) and	10/04/2024
	Vadose at 13	Saturated		Preliminary Cleanup	2410-140-04
	degrees C	(Eq. 747-1)	Soil Method C	Levels (2)	5 (ft)
	(Eq. 747-1)	(Eq. 747-1)	Direct Contact		23.9 (ft)

Notes:

(1): Site Specific Cleanup Levels originate from GeoEngineers 2016 Cleanup Action report. The soil cleanup levels are lowest of the lowest applicable soil cleanup levels except where the background concentration is higher than the lowest applicable cleanup level (Protection of human health/Protection of Terrestrial Ecological Receptors).

(2) Preliminary Cleanup Levels originate from GeoEngineers Final Supplemental Remedial Investigation Report. The soil preliminary cleanup levels are based on the protection of human health for industrial users, trespassers, and site visitors and industrial levels for the protection of wildlife.

(3): Semi-Volatile Organic Compounds analyzed by a mixture of SW8270E and SW8270E SIM

(4): Toxicity Equivalent using April 2015 (revised July 2021) Ecology's Implementation Memo No. 10: Evaluating the Human Health Toxicity of Carcinogenic PAHs (cPAHs) Using Toxicity Equivalency Factors (TEFs), 'Publication No. 15-09-049. For non-detects (<RL), a value of one-half the RL has been used for TEQ calculation. cPAH calculated for samples with individual PAHs identified as a non-detect will be qualified with U.

(a): Arsenic cleanup level of 20 mg/kg applies to 0 to 1 feet bgs in the areas where there is a potential for trespasser exposure (i.e., areas west of BNSF Railroad and located adjacent to residential areas, public access and street right-of-ways). Trespasser exposure is not applicable to areas located east of BNSF Railroad and therefore, arsenic cleanup levels applicable to 0 to 1 foot bgs for these areas is 88 mg/kg.

(b): Lead cleanup level of 118 mg/kg applies samples collected to 0 to 6 feet bgs, 1000 mg/kg applies to samples collected 6 to 15 feet bgs

(c): Mercury cleanup level of 5.5 mg/kg applies samples collected to 0 to 6 feet bgs, 1100 mg/kg applies to samples collected 6 to 15 feet bgs

(5): TPH is compared to the soil PCUL for the protection of drinking water in vadose-zone and saturated-zone soils (SL-2 and SL-5, respectively)

Bold values indicate a detected concentration.

Blue shading denotes a detected analyte concentration exceeding the Soil Protective of Groundwater Vadose at 13 degrees C (Eq. 747-1) or the Soil Protective of Groundwater Saturated (Eq. 747-1)

Orange shading denotes a detected analyte concentration exceeding the Soil Protective of Groundwater Cleanup Level and Site Specific Cleanup Levels or Preliminary Cleanup Levels.

Arsenic, lead, and mercury were only compared to the Site Specific Cleanup Levels listed in the GeoEngineers 2016 Cleanup Action report. HA-24-TP6-10 and HA24-TP6-15 were collected in saturated soils and compared to the MTCA Method B Cleanup Level for the protection of groundwater for saturated-soil. All other samples were compared to the MTCA Method B Cleanup Level for the protection of groundwater for vadose-zone soil

Grey shading denotes samples collected within the Old Fill.

µg/kg: micrograms per kilogram
bgs: below ground surface
ft: feet
mg/kg: milligrams per kilogram
NA: No Action level established
S: Result is suspect. See DUSR for details.
U: not detected, value is the laboratory reporting limit

TABLE 4

COMPARISON OF SOIL CHARACTERISTICS TO LOW PERMEABILITY LINER DESIGN CRITERIA

EVERETT SMELTER AREA B1

EVERETT, WASHINGTON

				2019 SWMMWW					2024 SWMMWW			
Exploration	Sample #	Depth (ft)	Soil Description	% Passing				Ksat	% Passing	LL	PI	Ksat
				6-inch	4-inch	#4	#200	(cm/sec)	#200			(cm/sec)
Current Study												
HA24-B1	S-3	5.0	Clayey Sand with Gravel	100	100	83	38	3.5E-07	38	--	--	3.5E-07
HA24-B1	S-7	20.0	Silty Sand with Gravel	100	100	69	21	1.1E-04	21	--	--	1.1E-04
HA24-B2	S-3	10.0	Sandy Lean Clay with Gravel	100	100	84	52	--	52	28	13	--
HA24-B2	S-7	20.0	Silty Sand	100	100	96	26	3.5E-05	26	--	--	3.5E-05
HA24-B3	S-4	7.5	Silty Sand	100	100	90	28	2.8E-05	28	--	--	2.8E-05
HA24-B3	S-7	20.0	Silty Sand with Gravel	100	100	76	22	9.3E-05	22	--	--	9.3E-05
HA24-B3	S-9	30.0	Sandy Silt	100	100	98	67	--	67	--	--	--
HA24-B4	S-2	2.5	Silty Sand	100	100	89	35	1.6E-06	35	--	--	1.6E-06
HA24-B4	S-6	15.0	Silty Sand with Gravel	100	100	72	25	5.2E-05	25	--	--	5.2E-05
HA24-B5	S-2	5.0	Silty Sand	100	100	92	28	1.9E-04	28	--	--	1.9E-04
HA24-B6	S-4	7.5	Silty Sand with Gravel	100	100	79	27	2.2E-05	27	--	--	2.2E-05
HA24-TP-1	G-3	10.0	Silty Sand with Gravel	100	100	62	29	2.2E-05	29	--	--	2.2E-05
HA24-TP-2	G-3	5.0	Silty Sand with Gravel	100	100	79	37	1.5E-06	37	--	--	1.5E-06
HA24-TP-3	G-4	12.5	Silty Sand with Gravel	100	100	76	32	6.2E-06	32	--	--	6.2E-06
HA24-TP-4	G-2	2.5	Silty Sand with Gravel	100	100	73	26	5.0E-05	26	--	--	5.0E-05
HA24-TP-5	G-3	10.0	Silty Sand with Gravel	100	100	68	29	8.6E-06	29	--	--	8.6E-06
HA24-TP-6	G-3	7.5	Silty Sand with Gravel	100	100	75	29	2.5E-05	29	--	--	2.5E-05
Geometric mean				--	--	--	32	1.7E-05	32	--	--	1.7E-05
Lab Permeability results (HA24-TP2, sample 0-5ft; App. F)				100	100	76	30	4E-05	30	--	--	4E-05
Lab Permeability results (HA24-TP5, sample 0-5ft; App. F)				100	100	82	32	4E-05	32	--	--	4E-05
2022 ESNW Study												
ENSW TP-1	--	12	--	100	100	89	26	--	26	--		
ENSW TP-2	--	9	--	100	100	85	39	--	39			
ENSW TP-3	--	12	--	100	100	87	33	--	33			
ENSW TP-4	--	12	--	100	100	81.5	34	--	34			
ENSW TP-5	--	11	--	100	100	81.5	32	--	32			
ENSW TP-6	--	11.5	--	100	100	90	51	--	51			
ENSW TP-7	--	10	--	100	100	80	33	--	33			
ENSW TP-8	--	5	--	100	100	80	34	--	34			
Relevant Agency Stormwater Liner and Landfill Cap Guidance												
2019 SWMMWW, Sect. V-1.3.3 Compacted Till Liners Criteria				100	90	70-100	20	<1E-06	--			
2024 SWMMWW, Sect. V-1.3.3 Compacted Earthen Criteria				--	--	--	--	--	30	30	15	<1E-07
RCRA Subtitle C Landfill Cap Criteria				--	--	--	--	<1E-07	--			
RCRA Subtitle D Landfill Cap Criteria				--	--	--	--	<1E-05				

Notes:

a) SWMMWW - Ecology Storm Water Manual for Western Washington, Ksat - saturated hydraulic conductivity

b) meets SWMMWW criteria

c) does not meet SWMMWW criteria

d) Ksat not calculated for when D10 not available from gradation lab results or estimated using a tangent line from gradation curve (HA-B-2, S-3; HA-B-3, S-9)

e) Ksat estimated using Modified Slichter method (Washington State Department of Transportation, 2019. Highway Runoff Manual (M31-16.05), April 2019)

f) RCRA = Resource Conservation and Recovery Act

% = percent

= number

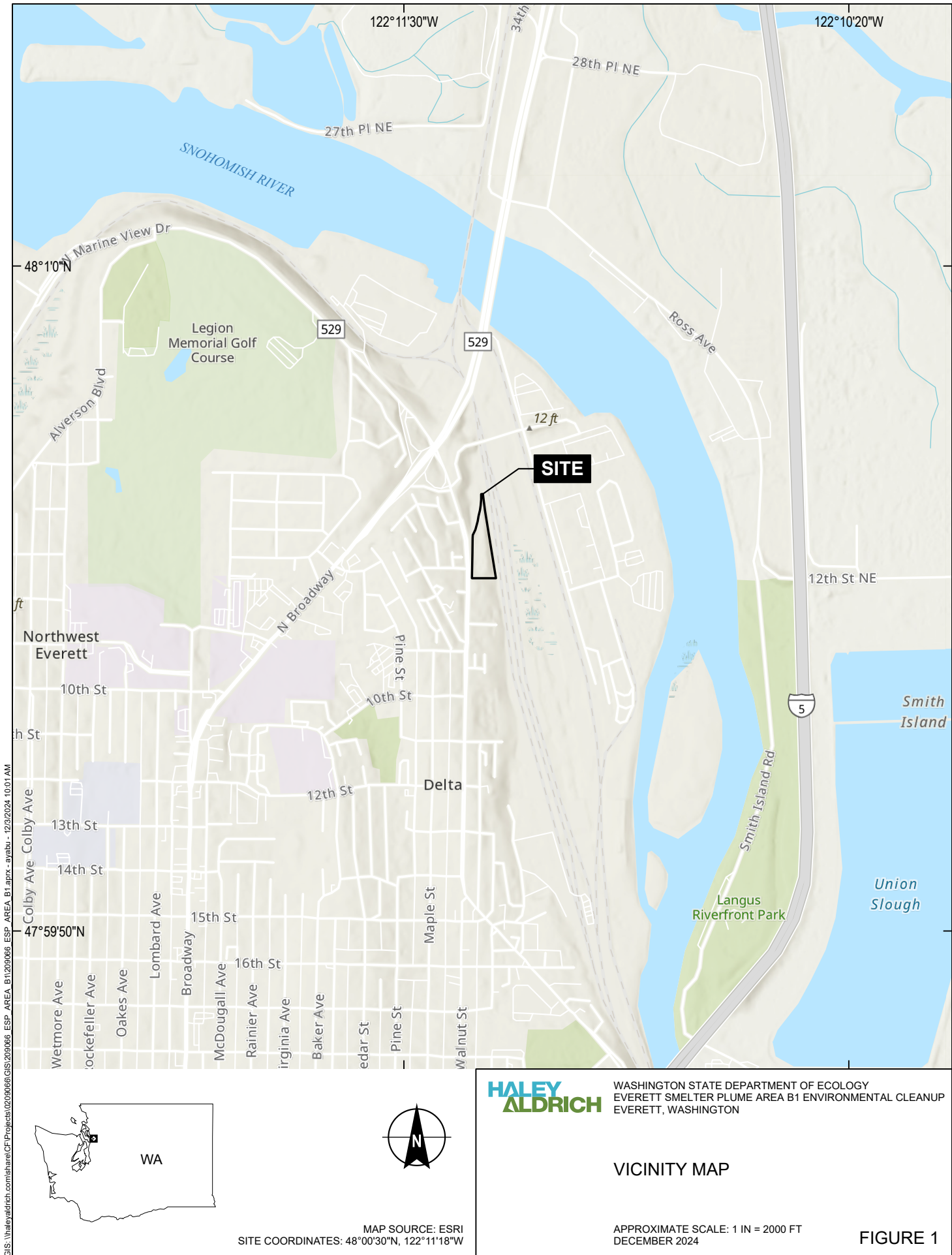
cm/sec = centimeters per second

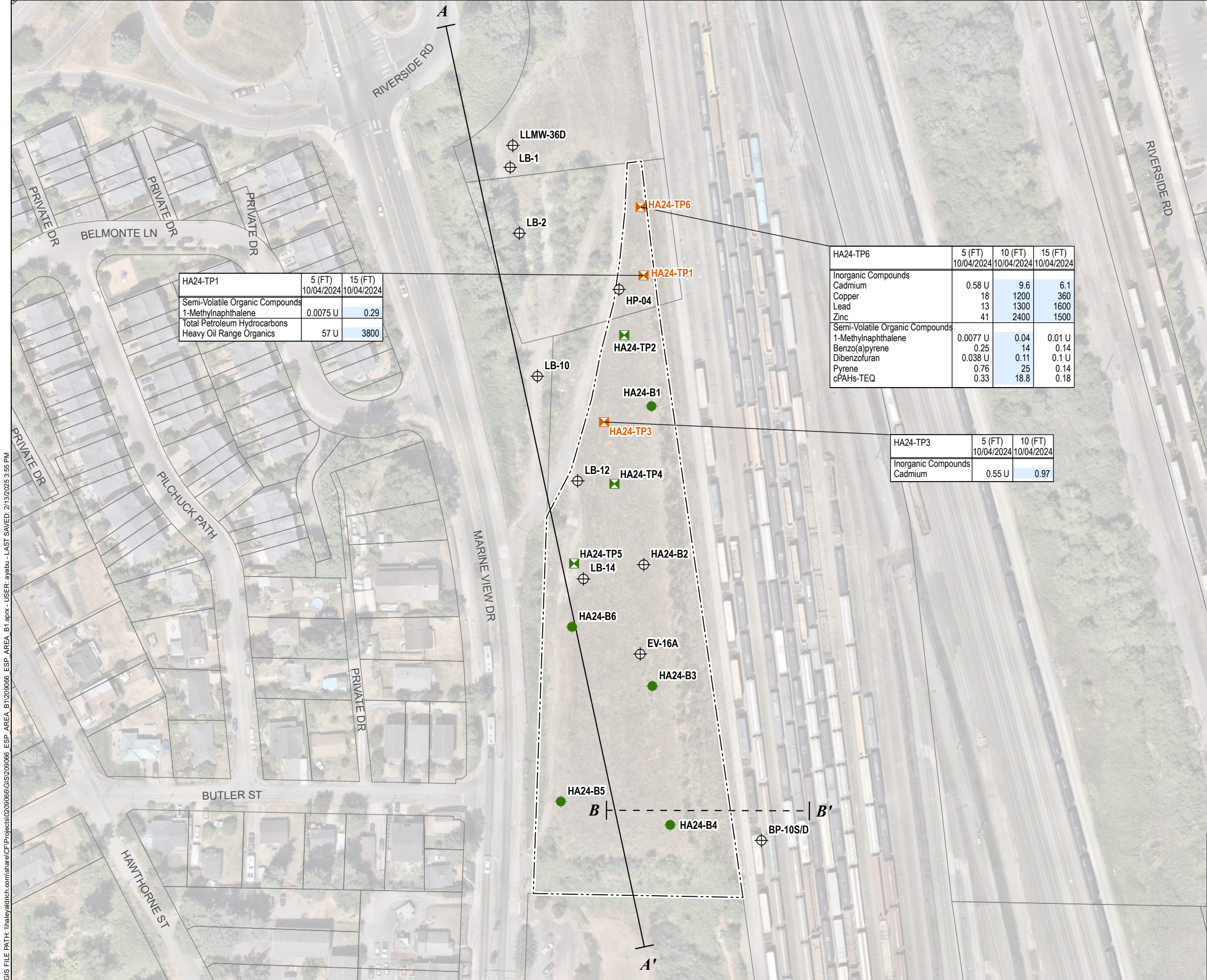
ft = feet

TABLE 5
AGENCY CAPPING REQUIREMENTS AND RELEVANCE
 EVERETT SMELTER AREA B1
 EVERETT, WASHINGTON

Cap Element ^a	Subtitle C Cap ^{b,c,d} : Hazardous Waste Treatment, Storage, and Disposal Facility	Subtitle D Cap ^{d,e} : Non-Hazardous Municipal Solid Waste Landfill	WAC 173-350-400: Limited Purpose Landfill ^f	WAC 173-350-410: Inert Waste Landfill ^g	2024 SWMMWW: Stormwater Pond Liner
Vegetation/ Erosion Control Layer	24-inch layer of earthen material	6-inch soil layer. <u>12-inches of antierosion soil with top ≥ 6 inches that sustains vegetation.</u>	24 inches of anti-erosion soil with top ≥ 12 inches that sustains vegetation	NA	NA
Geosynthetic Barrier	Geomembrane or geosynthetic clay liner (>20-140 mil thick)	- Cover ≤ liner permeability, if liner. <u>Geomembrane ≥30 mil thick (60 mils if high density polyethylene)</u>	Geomembrane ≥ 30-mil thick & compatible with site (i.e., slope and foundation)	NA	NA
Compacted Low Permeability Soil	24-inch layer of compacted clay, Ksat <1x10⁻⁷ cm/sec <u>Ksat cover ≤ Ksat liner</u>	18- to 24-inch layer of compacted soil with Ksat < 1x10 ⁻⁵ cm/sec	Required for liner only.	NA	24-inch layer of soil Ksat ≤ 1 x 10⁻⁷ cm/sec - Compacted to 95% ASTM D698 ≥ 30% passing the US No. 200 sieve - LL ≥ 30 and PI ≥ 15
Gas Vent Layer	If methane may be generated (organic compounds present). High permeability layer (geonet or 12-inch layer of sand or pea gravel) ^h	Common for general refuse landfills generating methane. See Subtitle C for gas collection materials.	Control methane and other explosive gases	NA	NA
Foundation Base Layer	Installed just above waste to provide stability and base for other layers	Installed just above waste to provide stability and base for other layers	Cover geomembrane on competent foundation support	Maintain stable site. Level and fill voids for closure.	NA
Notes: <i>a. Cap elements are tabulated in order from the surface down.</i> <i>b. Final cover must be designed and constructed to have a permeability less than or equal to the bottom liner system or natural subsoils.</i> <i>c. Washington Administrative Code (WAC) 173-303-665 - Dangerous waste landfills. Provides Washington State requirements more comprehensive than RCRA Subtitle C. WAC 173-303-665 differences <u>underlined</u>.</i> <i>d. From Resource Conservation and Recovery Act (RCRA) regulations within Title 40 of the Code of Federal Regulations (CFR).</i> <i>e. WAC 173-351 is essentially the state implementation of RCRA Subtitle D. WAC 173-351-500 differences <u>underlined</u>.</i> <i>f. Presumptive final cover design options are listed, not facility specific option.</i> <i>g. Only non-contaminated: cured concrete, asphalt, brick, masonry, ceramic, glass, stainless steel, and/or aluminum.</i> <i>h. Requirement for the gas vent layer depends on site-specific conditions.</i> ≥ = greater than or equal to > = greater than ≤ = less than or equal to Ksat = saturated hydraulic conductivity (i.e., permeability) LL and PI = liquid limit and plasticity index (Appendix D) NA = Not applicable					

FIGURES





LEGEND

- BORING WITH ANALYTES DETECTED AT CONCENTRATIONS LESS THAN APPLICABLE MTCA CLEANUP LEVELS
- TEST PIT WITH ANALYTES DETECTED AT CONCENTRATIONS LESS THAN APPLICABLE MTCA CLEANUP LEVELS
- TEST PIT WITH ONE OR MORE ANALYTES DETECTED AT CONCENTRATIONS GREATER THAN APPLICABLE MTCA CLEANUP LEVELS
- HISTORICAL SOIL EXPLORATION
- CROSS SECTION
- CROSS SECTION FOR GEOTECHNICAL SLOPE STABILITY ANALYSIS
- SITE/FILL BOUNDARY (NOTE 6)
- PARCEL BOUNDARY

NOTES

- ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
- DEFINITIONS:
FT = DEPTH BELOW GROUND SURFACE IN FEET
MTCA = MODEL TOXICS CONTROL ACT
U = NOT DETECTED, VALUE IS THE LABORATORY REPORTING LIMIT
- RESULTS SHOWN IN MILLIGRAMS PER KILOGRAM (mg/kg).
- ONLY ANALYTES THAT EXCEED CRITERIA AT LOCATION ARE SHOWN IN DATABOX.
- BLUE SHADING DENOTES A DETECTED ANALYTE CONCENTRATION EXCEEDING APPLICABLE MTCA METHOD B CLEANUP LEVEL OR SITE-SPECIFIC CLEANUP LEVELS.
- APPROXIMATE FILL BOUNDARY BASED ON COMPARING 2009 TO 2012 AND CURRENT TOPOGRAPHY. SEE CROSS SECTIONS AA' AND BB'.
- SEE GEOLOGY TEXT SECTION FOR DISCUSSION OF NEW FILL THICKNESS.
- ASSESSOR PARCEL DATA SOURCE: WASHINGTON STATE
- AERIAL IMAGERY SOURCE: NEARMAP, 26 JULY 2024



0 125 250
SCALE IN FEET

HALEY
ALDRICH

WASHINGTON STATE DEPARTMENT OF ECOLOGY
EVERETT SMELTER PLUME AREA B1 ENVIRONMENTAL CLEANUP
EVERETT, WASHINGTON

SITE PLAN AND
SOIL ANALYTICAL DATA

FEBRUARY 2025

FIGURE 2

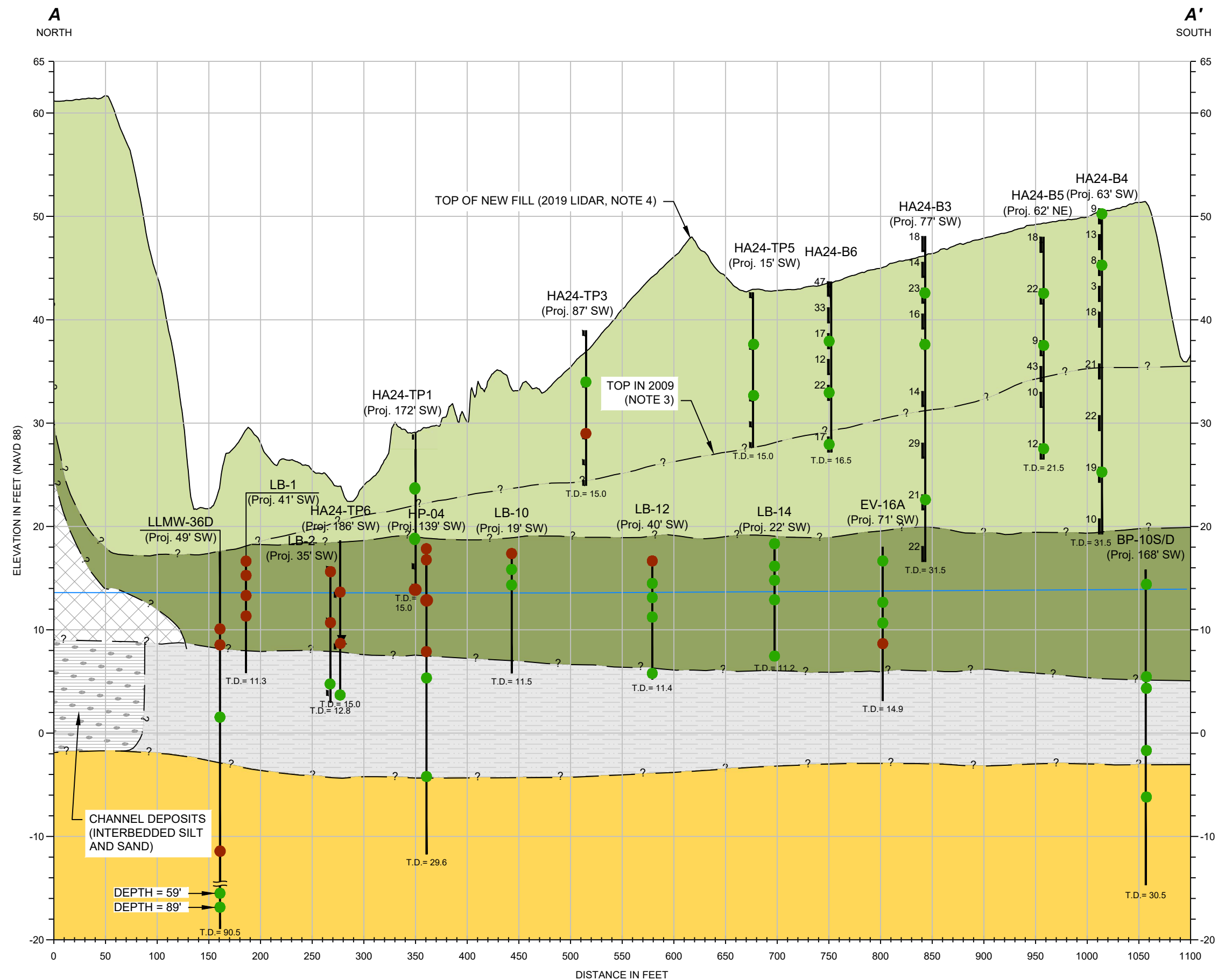


FIGURE 3

APPENDIX A
2022 Earth Solutions Permeability Report



November 8, 2022
ES-8736.01

Earth Solutions NW LLC

Geotechnical Engineering, Construction
Observation/Testing and Environmental Services

Ms. Kristine J. Marshall
P.O. Box 219
Freeland, Washington 98249

**Subject: Permeability Evaluation
East Marine View Drive and Butler Street
Everett, Washington**

Reference: Department of Ecology, State of Washington
2019 Stormwater Management Manual for Western Washington (2019 Manual)

Dear Ms. Marshall:

As requested, Earth Solutions NW, LLC (ESNW) has prepared this permeability evaluation for the fill soil placed throughout the subject site.

Project Description

We understand the site was previously capped with compacted fill. We understand the intent of the fill was to establish a low permeability layer to impede infiltration of surface water, similar to a low permeability compacted till liner. Section V-1.3.1 of the referenced 2019 Manual describes low permeability liners as follows:

“Low permeability liners reduce infiltration to a very slow rate, generally less than 0.02 inches per hour. These types of liners should be used for industrial or commercial sites with a potential for high pollutant loading in the stormwater runoff. Low permeability liners may be fashioned from compacted till, clay, geomembrane, or concrete. Till liners are preferred because of their general resilience and ease of maintenance.”

Surface

The subject site is located east of the intersection between East Marine View Drive and Butler Street in Everett, Washington, as illustrated on the attached Vicinity Map (Plate 1). The site consists of two tax parcels (Snohomish County parcel numbers 2905080040-1100 and -0100). The property is currently vacant and appears to have been previously modified. The site topography gently declines towards the north; the east edge of the site steeply descends towards the east.

Subsurface

An ESNW representative observed, logged, and sampled eight test pits, excavated at accessible locations within the property boundaries, on August 31, 2022 using a mini-trackhoe and operator provided by our firm. The approximate locations of the test pits are depicted on the attached Plate 2 (Test Pit Location Plan). Please refer to the test pit logs provided as attachments for a more detailed description of subsurface conditions. Representative soil samples collected at the test pit locations were evaluated in general accordance with Unified Soil Classification System (USCS) and United States Department of Agriculture methods and procedures.

Existing Fill

Sandy silt and silty sand with and without gravel (USCS: ML and SM, respectively) fill was encountered at all test pit locations extending to the maximum exploration depth of 12 feet below the existing ground surface (bgs). The fill was observed to be in a dense to very dense and damp to moist condition. The fill appeared to have been mechanically compacted to the current dense condition.

Groundwater

Groundwater seepage was not observed in the test pits excavated during the August 2022 subsurface exploration.

Permeability Evaluation

Our evaluation of site permeability was completed by excavating a series of test pits throughout the site and completing laboratory analyses of soil samples. As indicated on the attached grain size distribution, soils across the site classify as sandy silt and silty sand with and without gravel (USCS: ML and SM, respectively). The soils were further classified as gravelly sandy loam and gravelly loam, with fines contents of about 24 to 51 percent. The site soil generally characterizes as compacted glacial till type soil.

Section V-1.3.3 of the referenced 2019 Manual provides design criteria for low permeability liners. As presented in Table V-1.3 of the 2019 Manual, soils with the following gradation meet the criteria of a compacted till low permeability liner:

Sieve Size	Percent Passing
6-inch	100
4-inch	90
#4	70-100
#200	20

Table V-1.3: Soil Gradation for Compacted Till Liners

Based on soil grain size analyses of representative samples across the subject site, the gradation criteria for compacted till liners was observed at each test pit location. Additionally, the fill was observed to be consistently dense to very dense, indicating it was mechanically compacted. The following table summarizes the results of the grain size analysis testing:

Percent Passing				
Sample ID	6-inch	4-inch	#4	#200
TP-01 @12'	100	100	89	26.0
TP-2 @ 9'	100	100	85	38.8
TP-3 @ 12'	100	100	87	32.6
TP-4 @ 12'	100	100	81.5	34.2
TP-5 @ 11'	100	100	81.5	32.2
TP-6 @11.5	100	100	90	51.3
TP-7 @ 10'	100	100	80	32.9
TP-8 @ 5'	100	100	80	33.9

Based on the observed in-situ density and the grain size analysis results, it is our opinion the existing fill soil encountered at the test pit locations effectively meets the criteria for a low permeability liner.

Limitations

The recommendations and conclusions provided in this letter are professional opinions consistent with the level of care and skill that is typical of other members in the profession currently practicing under similar conditions in this area. A warranty is not expressed or implied. Variations in the soil and groundwater conditions observed at the test sites may exist and may not become evident until construction. ESNW should reevaluate the conclusions in this letter if variations are encountered.

Additional Services

ESNW should have an opportunity to review the final design with respect to the geotechnical recommendations provided in this letter. ESNW should also be retained to provide testing and consultation services during the earthwork phase of construction.

We trust this letter meets your current needs. Should you have questions regarding the content herein, or require additional information, please call.

Sincerely,

EARTH SOLUTIONS NW, LLC



Adam Z. Shier, L.G.
Project Geologist



11/08/2022

Henry T. Wright, P.E.
Associate Principal Engineer

Attachments: Plate 1 – Vicinity Map
Plate 2 – Test Pit Location Plan
Test Pit Logs
Grain Size Distribution

cc: Mr. Mark Wolken (Email only)



Reference:
Snohomish County, Washington
OpenStreetMap.org



NOTE: This plate may contain areas of color. ESNW cannot be responsible for any subsequent misinterpretation of the information resulting from black & white reproductions of this plate.



Earth Solutions NW, LLC

Geotechnical Engineering, Construction
Observation/Testing and Environmental Services

**Vicinity Map
Marine View Drive Property
Everett, Washington**

Drwn. CAM

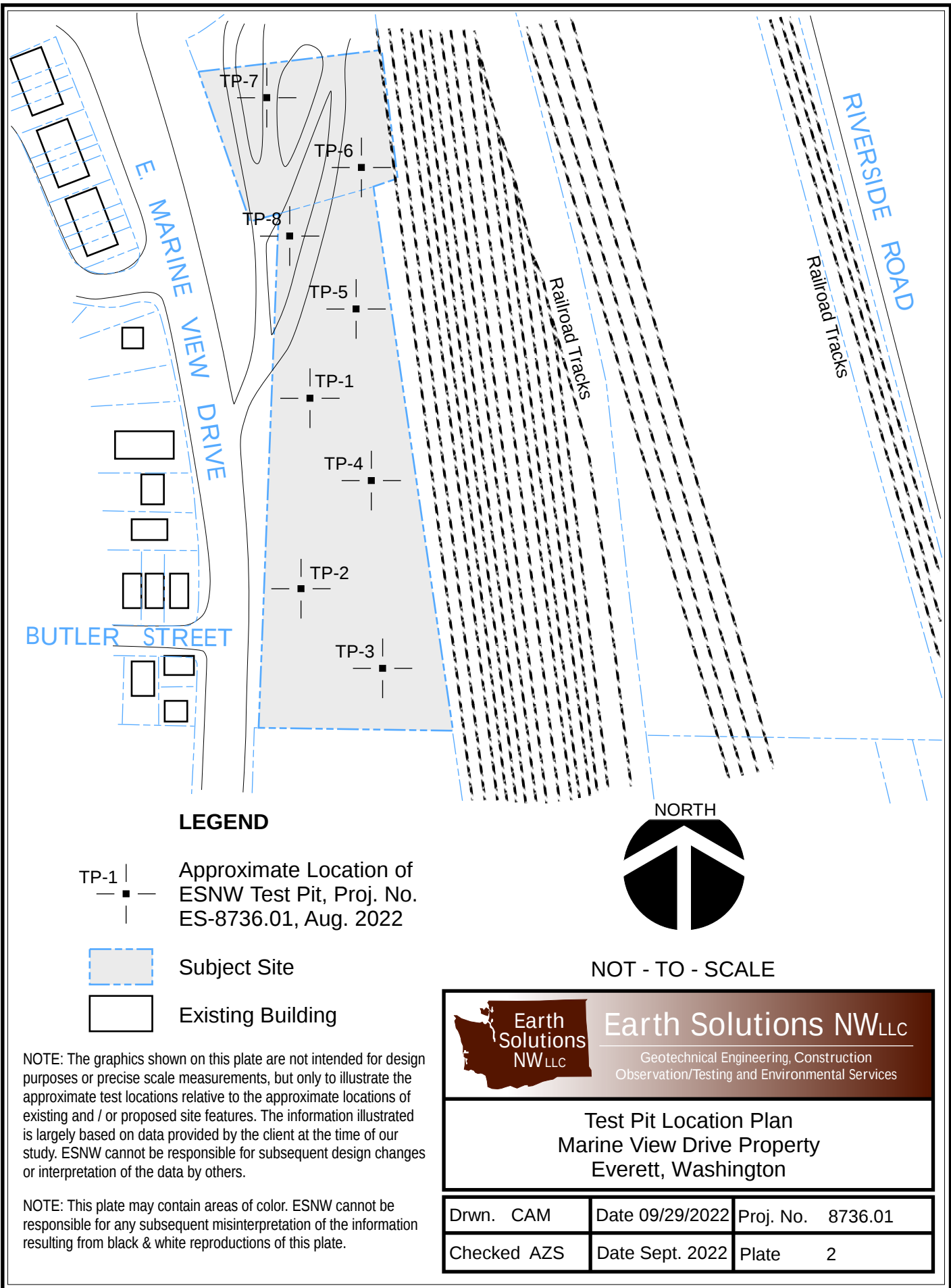
Date 09/29/2022

Proj. No. 8736.01

Checked AZS

Date Sept. 2022

Plate 1



Earth Solutions NW_{LLC}

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50			ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

DUAL SYMBOLS are used to indicate borderline soil classifications.

The discussion in the text of this report is necessary for a proper understanding of the nature of the material presented in the attached logs.

PROJECT NUMBER ES-8736.01

PROJECT NAME Marine View Drive Property

DATE STARTED 8/31/22

COMPLETED 8/31/22

GROUND ELEVATION

EXCAVATION CONTRACTOR NW Excavating

LATITUDE 48.00868

LONGITUDE -122.18838

LOGGED BY AZS

CHECKED BY HTW

GROUND WATER LEVEL:

NOTES

 AT TIME OF EXCAVATION

SURFACE CONDITIONS Field Grass

AFTER EXCAVATION

DEPTH (ft)	SAMPLE TYPE NUMBER	TESTS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0					
					Gray silty SAND with gravel, dense, moist (Fill)
	Hand GB	MC = 6.1% Fines = 25.8%			
2.5					
	Hand GB	MC = 8.8% Fines = 30.0%			-asphalt piece
5.0					
			SM		
7.5					
	Hand GB	MC = 11.9% Fines = 35.8%			-becomes very dense
					-brick
					-becomes dense
10.0					
	Hand GB	MC = 11.2% Fines = 25.6%			
	Hand GB	MC = 11.5% Fines = 26.0%			
				12.0	[USDA Classification: slightly gravelly sandy LOAM] Test pit terminated at 12.0 feet below existing grade. No groundwater encountered during

Test pit terminated at 12.0 feet below existing grade. No groundwater encountered during excavation. No caving observed.

LIMITATIONS: Ground elevation (if listed) is approximate; the test location was not surveyed. Coordinates are approximate and based on the WGS84 datum. Do not rely on this test log as a standalone document. Refer to the text of the geotechnical report for a complete understanding of subsurface conditions.



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TEST PIT NUMBER TP-2

PAGE 1 OF 1

PROJECT NUMBER ES-8736.01

PROJECT NAME Marine View Drive Property

DATE STARTED 8/31/22

COMPLETED 8/31/22

GROUND ELEVATION _____

EXCAVATION CONTRACTOR NW Excavating

LATITUDE 48.00802

LONGITUDE -122.18853

LOGGED BY AZS

CHECKED BY HTW

GROUND WATER LEVEL: _____

NOTES _____

▽ AT TIME OF EXCAVATION _____

SURFACE CONDITIONS Field Grass

AFTER EXCAVATION _____

DEPTH (ft)	SAMPLE TYPE NUMBER	TESTS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0					
					Gray silty SAND with gravel, dense, damp (Fill)
					-piece of concrete, filter fabric
2.5	GB	MC = 6.2% Fines = 14.7%			
					-piece of metal, asphalt
	GB	MC = 6.9% Fines = 27.6%			-filter fabric
5.0			SM		
	GB	MC = 7.3% Fines = 23.4%			-piece of asphalt
7.5					
	GB	MC = 8.5% Fines = 38.8%			
					[USDA Classification: gravelly sandy LOAM]

Test pit terminated at 9.0 feet below existing grade due to refusal on debris. No groundwater encountered during excavation. No caving observed.

LIMITATIONS: Ground elevation (if listed) is approximate; the test location was not surveyed. Coordinates are approximate and based on the WGS84 datum. Do not rely on this test log as a standalone document. Refer to the text of the geotechnical report for a complete understanding of subsurface conditions.



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TEST PIT NUMBER TP-3

PAGE 1 OF 1

PROJECT NUMBER ES-8736.01

PROJECT NAME Marine View Drive Property

DATE STARTED 8/31/22

COMPLETED 8/31/22

GROUND ELEVATION

EXCAVATION CONTRACTOR NW Excavating

LATITUDE 48.00773

LONGITUDE -122.18802

LOGGED BY AZS

CHECKED BY HTW

GROUND WATER LEVEL:

NOTES

▽ AT TIME OF EXCAVATION

SURFACE CONDITIONS Field Grass

AFTER EXCAVATION

DEPTH (ft)	SAMPLE TYPE NUMBER	TESTS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0					
2.5	GB	MC = 9.1% Fines = 37.7%			Gray silty SAND, dense, moist (Fill)
5.0	GB	MC = 11.1% Fines = 33.7%			
7.5	GB	MC = 10.0% Fines = 29.0%			
10.0					
12.0	GB	MC = 12.9% Fines = 32.6%			

[USDA Classification: gravelly sandy LOAM]

Test pit terminated at 12.0 feet below existing grade. No groundwater encountered during excavation. No caving observed.

LIMITATIONS: Ground elevation (if listed) is approximate; the test location was not surveyed. Coordinates are approximate and based on the WGS84 datum. Do not rely on this test log as a standalone document. Refer to the text of the geotechnical report for a complete understanding of subsurface conditions.



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TEST PIT NUMBER TP-4

PAGE 1 OF 1

PROJECT NUMBER ES-8736.01

PROJECT NAME Marine View Drive Property

DATE STARTED 8/31/22

COMPLETED 8/31/22

GROUND ELEVATION

EXCAVATION CONTRACTOR NW Excavating

LATITUDE 48.00842

LONGITUDE -122.18808

LOGGED BY AZS

CHECKED BY HTW

GROUND WATER LEVEL:

NOTES

▽ AT TIME OF EXCAVATION

SURFACE CONDITIONS Field Grass

AFTER EXCAVATION

DEPTH (ft)	SAMPLE TYPE NUMBER	TESTS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0					
2.5					
5.0	GB	MC = 11.7% Fines = 42.7%			
7.5	GB	MC = 9.1% Fines = 27.0%			
10.0					
12.0	GB	MC = 9.2% Fines = 24.2%			

[USDA Classification: gravelly sandy LOAM]

Test pit terminated at 12.0 feet below existing grade. No groundwater encountered during excavation. No caving observed.

LIMITATIONS: Ground elevation (if listed) is approximate; the test location was not surveyed. Coordinates are approximate and based on the WGS84 datum. Do not rely on this test log as a standalone document. Refer to the text of the geotechnical report for a complete understanding of subsurface conditions.

PROJECT NUMBER ES-8736.01

PROJECT NAME Marine View Drive Property

DATE STARTED 8/31/22

COMPLETED 8/31/22

GROUND ELEVATION

EXCAVATION CONTRACTOR NW Excavating

LATITUDE 48.00904

LONGITUDE -122.18817

LOGGED BY AZS

CHECKED BY HTW

GROUND WATER LEVEL:

NOTES

▽ AT TIME OF EXCAVATION

SURFACE CONDITIONS Field Grass

AFTER EXCAVATION

DEPTH (ft)	SAMPLE TYPE NUMBER	TESTS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0					Gray silty SAND with gravel, dense, moist (Fill)
2.5					-piece of concrete
	Hand GB	MC = 10.0% Fines = 34.0%			
5.0			SM		
	Hand GB	MC = 8.5% Fines = 21.2%			
7.5					
10.0					
	Hand GB	MC = 9.7% Fines = 32.2%			
				11.0	[USDA Classification: gravelly sandy LOAM] Test pit terminated at 11.0 feet below existing grade. No groundwater encountered during excavation.

LIMITATIONS: Ground elevation (if listed) is approximate; the test location was not surveyed. Coordinates are approximate and based on the WGS84 datum. Do not rely on this test log as a standalone document. Refer to the text of the geotechnical report for a complete understanding of subsurface conditions.



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TEST PIT NUMBER TP-6

PAGE 1 OF 1

PROJECT NUMBER ES-8736.01

PROJECT NAME Marine View Drive Property

DATE STARTED 8/31/22

COMPLETED 8/31/22

GROUND ELEVATION

EXCAVATION CONTRACTOR NW Excavating

LATITUDE 48.00861

LONGITUDE -122.18821

LOGGED BY AZS

CHECKED BY HTW

GROUND WATER LEVEL:

NOTES

▽ AT TIME OF EXCAVATION

SURFACE CONDITIONS Field Grass

AFTER EXCAVATION

DEPTH (ft)	SAMPLE TYPE NUMBER	TESTS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0					
2.5					Gray silty SAND with gravel, dense, moist (Fill)
5.0	GB	MC = 9.5% Fines = 33.5%	SM		-piece of concrete
7.5	GB	MC = 10.3% Fines = 29.0%			-plastic
10.0					
11.5	GB	MC = 20.7% Fines = 51.3%	ML		Gray sandy SILT, dense, moist (Fill)
					-piece of asphalt
					[USDA Classification: gravelly LOAM]

Test pit terminated at 11.5 feet below existing grade. No groundwater encountered during excavation. No caving observed.

LIMITATIONS: Ground elevation (if listed) is approximate; the test location was not surveyed. Coordinates are approximate and based on the WGS84 datum. Do not rely on this test log as a standalone document. Refer to the text of the geotechnical report for a complete understanding of subsurface conditions.



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TEST PIT NUMBER TP-7

PAGE 1 OF 1

PROJECT NUMBER ES-8736.01

PROJECT NAME Marine View Drive Property

DATE STARTED 8/31/22

COMPLETED 8/31/22

GROUND ELEVATION

EXCAVATION CONTRACTOR NW Excavating

LATITUDE 48.00985

LONGITUDE -122.18864

LOGGED BY AZS

CHECKED BY HTW

GROUND WATER LEVEL:

NOTES

▽ AT TIME OF EXCAVATION

SURFACE CONDITIONS Field Grass

AFTER EXCAVATION

DEPTH (ft)	SAMPLE TYPE NUMBER	TESTS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0					
2.5					Gray silty SAND with gravel, dense, damp (Fill)
	GB	MC = 5.5% Fines = 32.7%			
5.0			SM		
7.5					
	GB	MC = 11.5% Fines = 28.8%			-becomes moist
10.0					
	GB	MC = 14.0% Fines = 32.9%			
10.0					[USDA Classification: gravelly sandy LOAM]

Test pit terminated at 10.0 feet below existing grade due to refusal on concrete debris. No groundwater encountered during excavation. No caving observed.

LIMITATIONS: Ground elevation (if listed) is approximate; the test location was not surveyed. Coordinates are approximate and based on the WGS84 datum. Do not rely on this test log as a standalone document. Refer to the text of the geotechnical report for a complete understanding of subsurface conditions.



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TEST PIT NUMBER TP-8

PAGE 1 OF 1

PROJECT NUMBER ES-8736.01

PROJECT NAME Marine View Drive Property

DATE STARTED 8/31/22

COMPLETED 8/31/22

GROUND ELEVATION

EXCAVATION CONTRACTOR NW Excavating

LATITUDE 48.00938

LONGITUDE -122.18866

LOGGED BY AZS

CHECKED BY HTW

GROUND WATER LEVEL:

NOTES

▽ AT TIME OF EXCAVATION

SURFACE CONDITIONS Field Grass/Brush

AFTER EXCAVATION

DEPTH (ft)	SAMPLE TYPE NUMBER	TESTS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0					
2.5					Gray silty SAND with gravel, dense, damp (Fill)
	GB	MC = 7.2% Fines = 31.3%	SM		-piece of asphalt
5.0					
	GB	MC = 7.4% Fines = 33.9%			[USDA Classification: gravelly sandy LOAM]
				5.5	

Test pit terminated at 5.5 feet below existing grade due to refusal on asphalt debris. No groundwater encountered during excavation. No caving observed.

LIMITATIONS: Ground elevation (if listed) is approximate; the test location was not surveyed. Coordinates are approximate and based on the WGS84 datum. Do not rely on this test log as a standalone document. Refer to the text of the geotechnical report for a complete understanding of subsurface conditions.

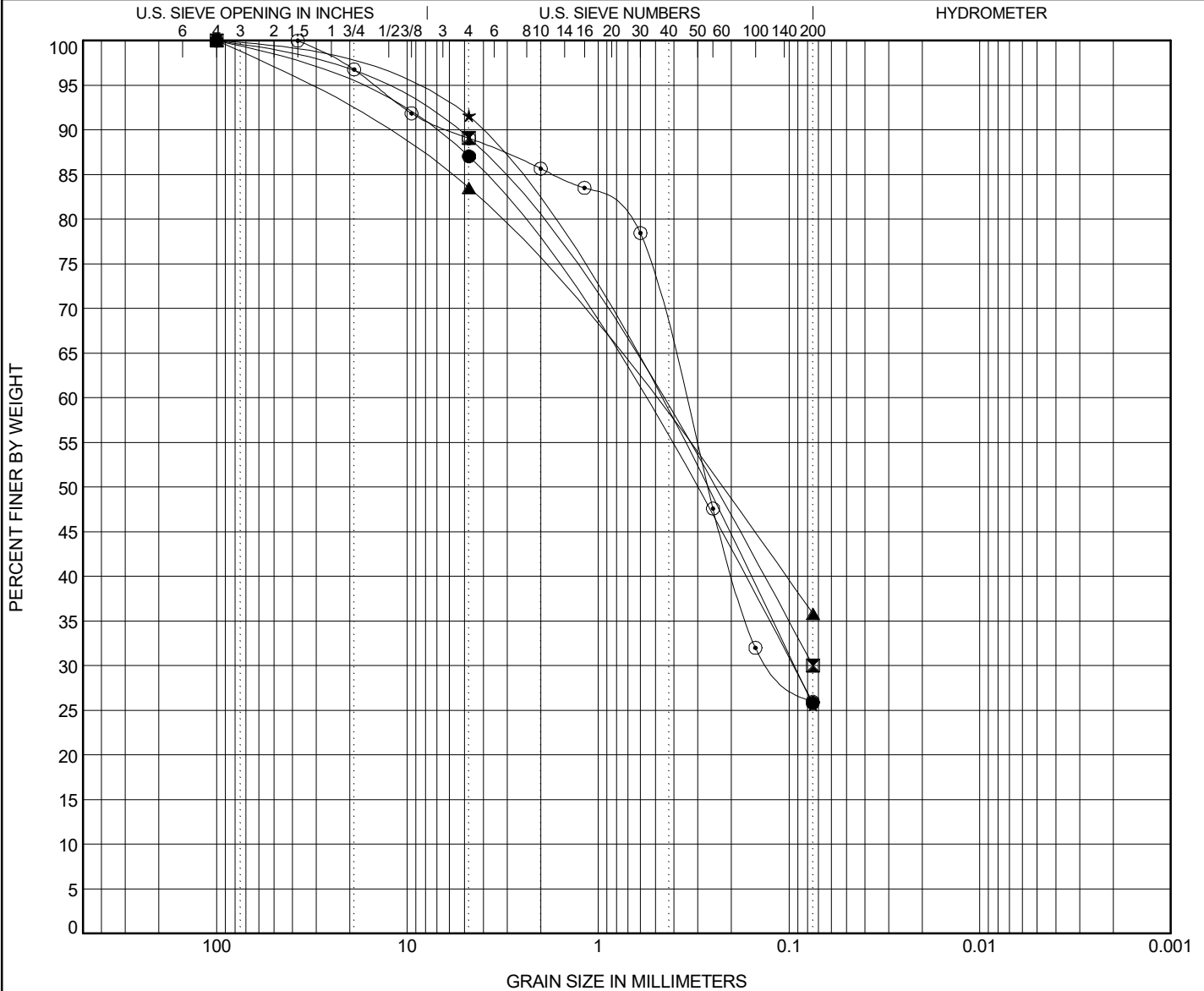


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GRAIN SIZE DISTRIBUTION

PROJECT NUMBER ES-8736.01

PROJECT NAME Marine View Drive Property



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification			Classification							Cc	Cu
●	TP-01	1.50ft.	-								
☒	TP-01	4.00ft.	-								
▲	TP-01	8.00ft.	-								
★	TP-01	10.00ft.	-								
⊙	TP-01	12.00ft.	USDA: Gray Slightly Gravelly Sandy Loam. USCS: SM.								
Specimen Identification			D100	D60	D30	D10	LL	PL	PI	%Silt	%Clay
●	TP-01	1.5ft.	100	0.759	0.099					25.8	
☒	TP-01	4.0ft.	100	0.615						30.0	
▲	TP-01	8.0ft.	100	0.614						35.8	
★	TP-01	10.0ft.	100	0.652	0.099					25.6	
⊙	TP-01	12.0ft.	37.5	0.355	0.119					26.0	

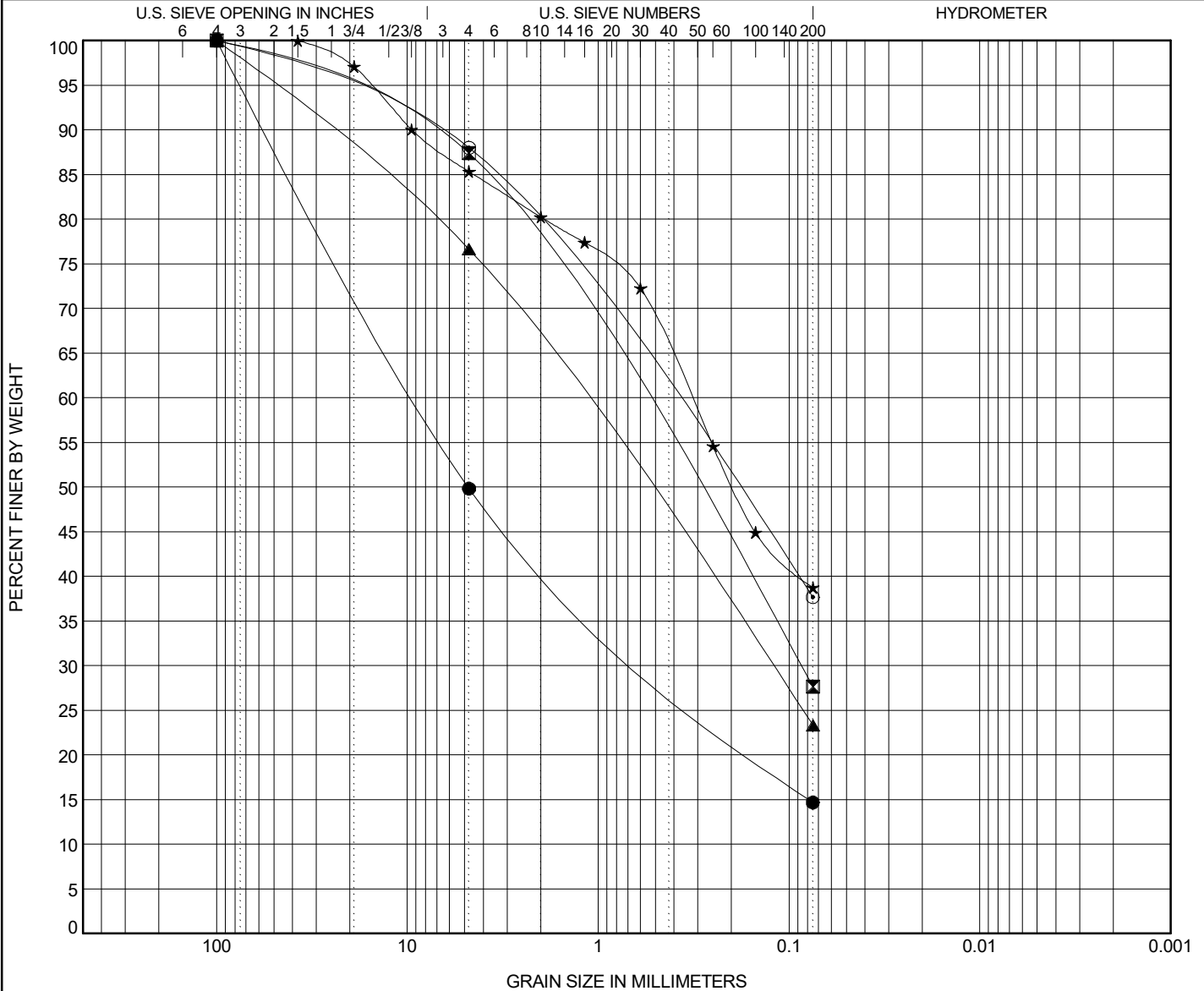


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GRAIN SIZE DISTRIBUTION

PROJECT NUMBER ES-8736.01

PROJECT NAME Marine View Drive Property



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification			Classification							Cc	Cu
●	TP-02	2.00ft.	-								
☒	TP-02	3.50ft.	-								
▲	TP-02	6.00ft.	-								
★	TP-02	9.00ft.	USDA: Gray Gravelly Sandy Loam. USCS: SM.								
⊙	TP-03	2.00ft.	-								
Specimen Identification			D100	D60	D30	D10	LL	PL	PI	%Silt	%Clay
●	TP-02	2.0ft.	100	8.805	0.457					14.7	
☒	TP-02	3.5ft.	100	0.709	0.088					27.6	
▲	TP-02	6.0ft.	100	1.299	0.126					23.4	
★	TP-02	9.0ft.	37.5	0.326						38.8	
⊙	TP-03	2.0ft.	100	0.472						37.7	

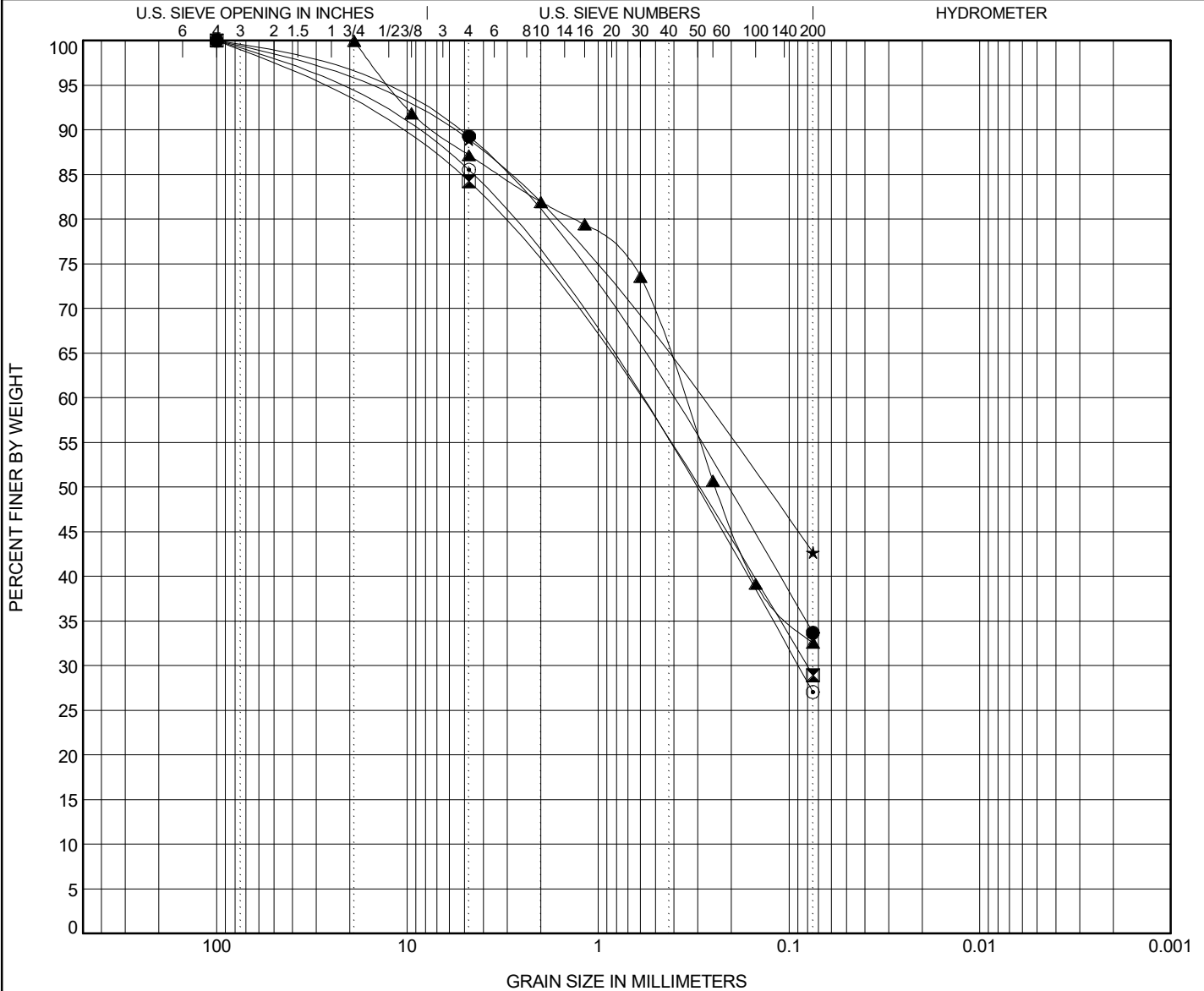


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GRAIN SIZE DISTRIBUTION

PROJECT NUMBER ES-8736.01

PROJECT NAME Marine View Drive Property



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification			Classification							Cc	Cu
●	TP-03	4.00ft.	-								
☒	TP-03	7.00ft.	-								
▲	TP-03	12.00ft.	USDA: Gray Gravelly Sandy Loam. USCS: SM.								
★	TP-04	4.00ft.	-								
⊙	TP-04	7.00ft.	-								
Specimen Identification			D100	D60	D30	D10	LL	PL	PI	%Silt	%Clay
●	TP-03	4.0ft.	100	0.534						33.7	
☒	TP-03	7.0ft.	100	0.77	0.081					29.0	
▲	TP-03	12.0ft.	19	0.357						32.6	
★	TP-04	4.0ft.	100	0.354						42.7	
⊙	TP-04	7.0ft.	100	0.776	0.092					27.0	

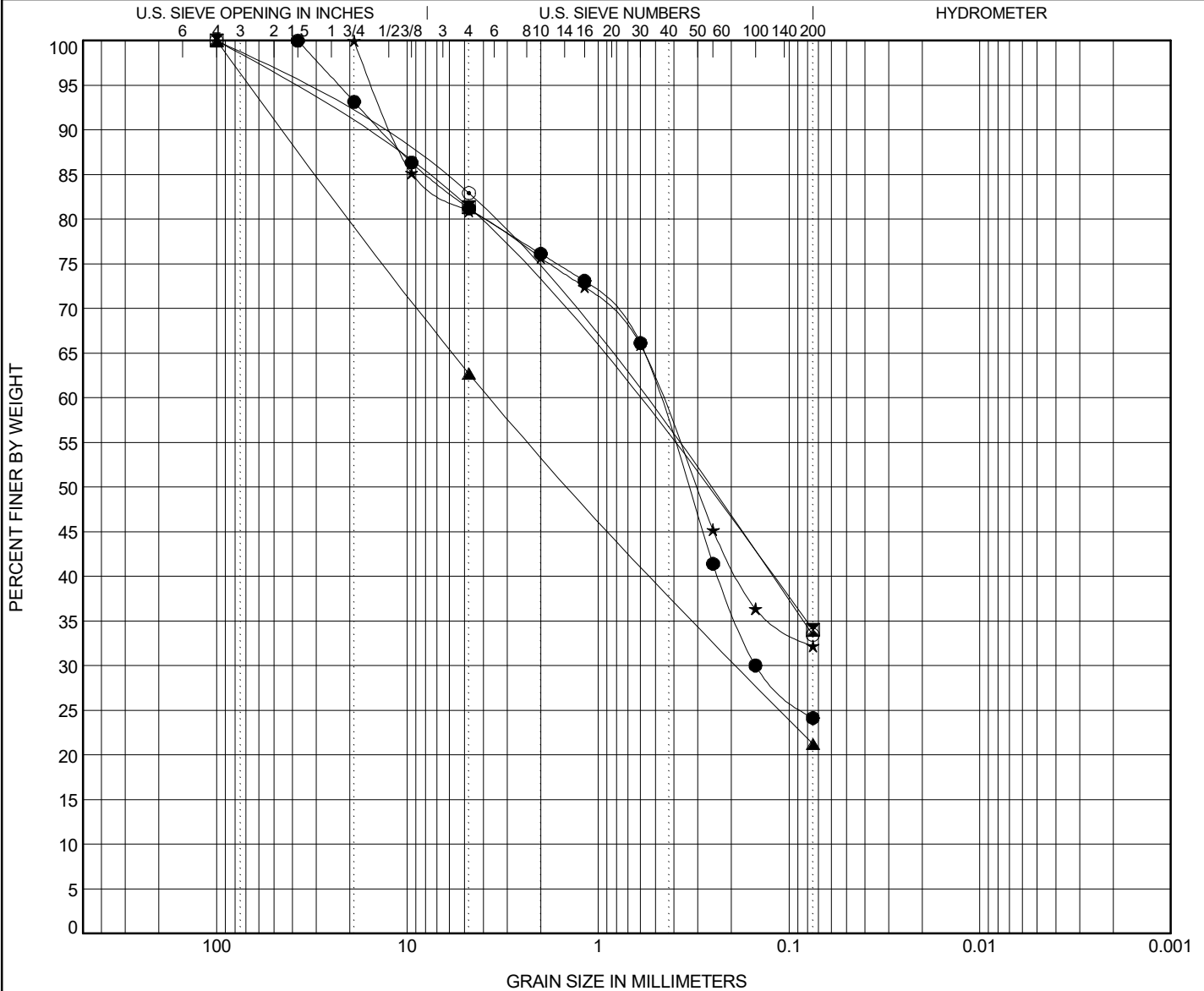


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GRAIN SIZE DISTRIBUTION

PROJECT NUMBER ES-8736.01

PROJECT NAME Marine View Drive Property



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification			Classification							Cc	Cu
●	TP-04	12.00ft.	USDA: Gray Gravelly Sandy Loam. USCS: SM with Gravel.								
☒	TP-05	3.00ft.	-								
▲	TP-05	6.00ft.	-								
★	TP-05	11.00ft.	USDA: Gray Gravelly Sandy Loam. USCS: SM with Gravel.								
⊙	TP-06	4.00ft.	-								
Specimen Identification			D100	D60	D30	D10	LL	PL	PI	%Silt	%Clay
●	TP-04	12.0ft.	37.5	0.483	0.149					24.2	
☒	TP-05	3.0ft.	100	0.731						34.0	
▲	TP-05	6.0ft.	100	3.619	0.18					21.2	
★	TP-05	11.0ft.	19	0.466						32.2	
⊙	TP-06	4.0ft.	100	0.695						33.5	

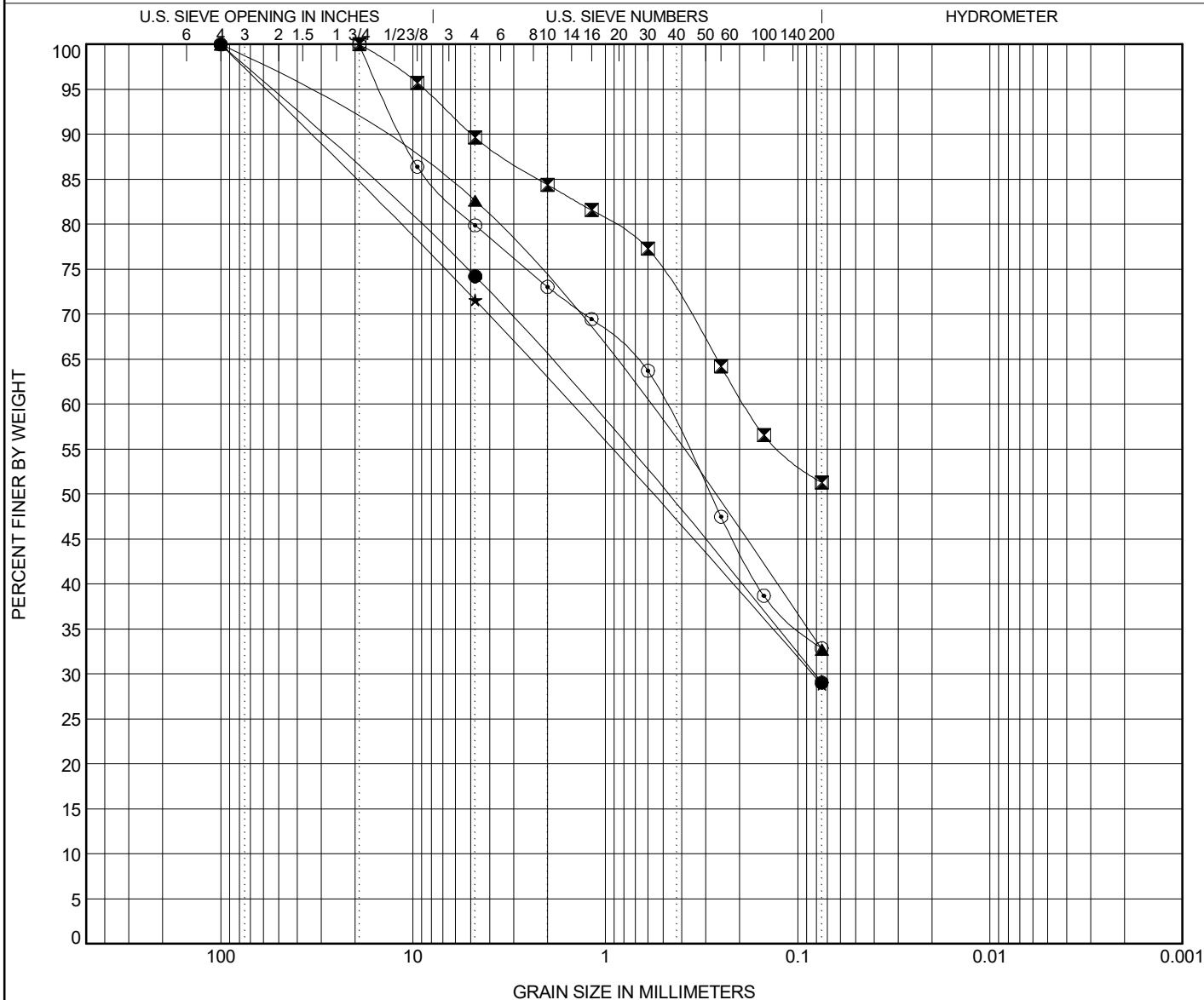


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GRAIN SIZE DISTRIBUTION

PROJECT NUMBER ES-8736.01

PROJECT NAME Marine View Drive Property



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification			Classification							Cc	Cu
●	TP-06	7.00ft.	-								
☒	TP-06	11.50ft.	USDA: Gray Gravelly Loam. USCS: Sandy ML.								
▲	TP-07	3.00ft.	-								
★	TP-07	8.00ft.	-								
⊙	TP-07	10.00ft.	USDA: Gray Gravelly Sandy Loam. USCS: SM with Gravel.								
Specimen Identification			D100	D60	D30	D10	LL	PL	PI	%Silt	%Clay
●	TP-06	7.0ft.	100	1.286	0.082					29.0	
☒	TP-06	11.5ft.	19	0.189						51.3	
▲	TP-07	3.0ft.	100	0.724						32.7	
★	TP-07	8.0ft.	100	1.543	0.084					28.8	
⊙	TP-07	10.0ft.	19	0.491						32.9	

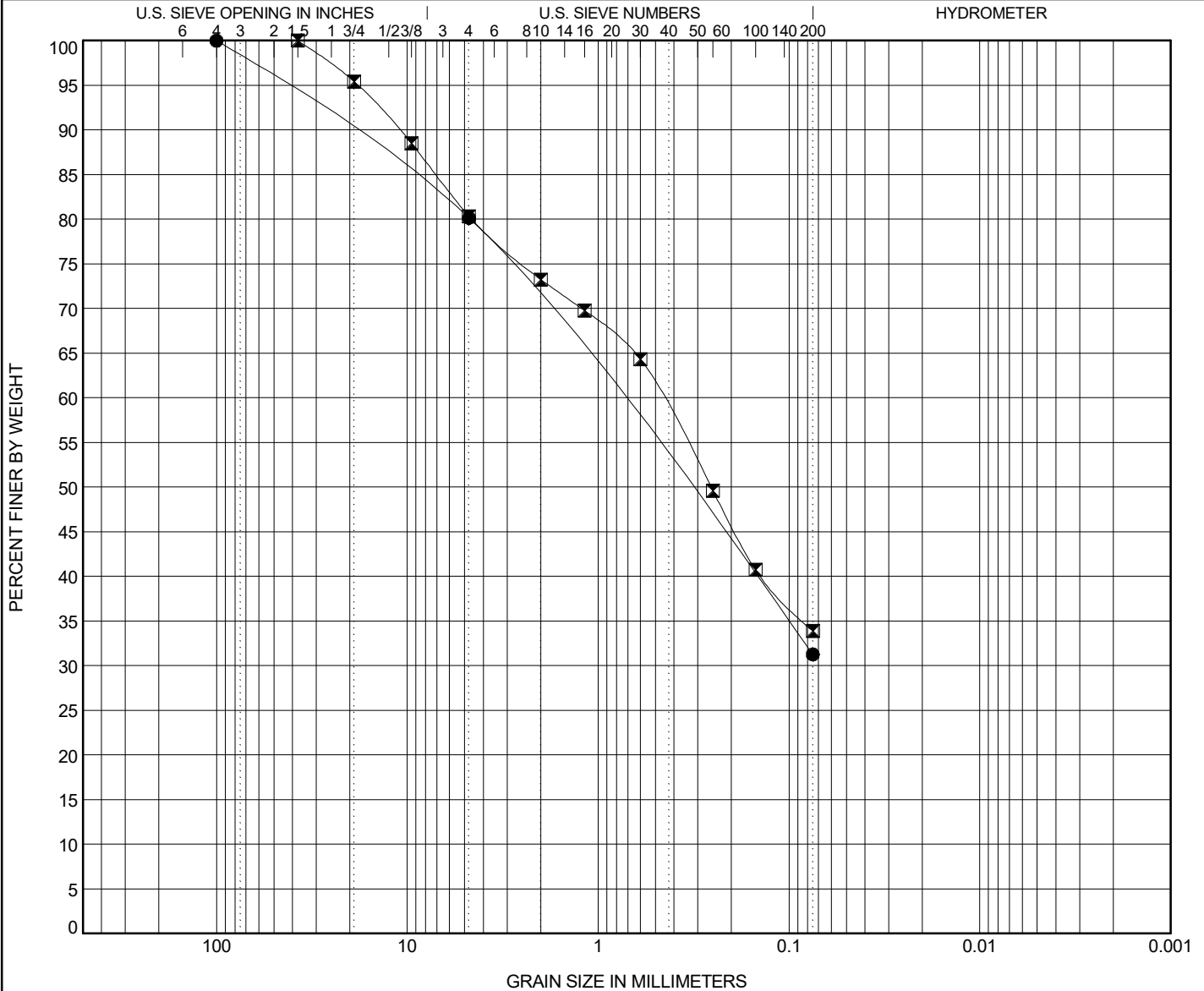


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GRAIN SIZE DISTRIBUTION

PROJECT NUMBER ES-8736.01

PROJECT NAME Marine View Drive Property



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification			Classification							Cc	Cu
●	TP-08	3.00ft.	-								
☒	TP-08	5.00ft.	USDA: Gray Gravelly Sandy Loam. USCS: SM with Gravel.								
Specimen Identification			D100	D60	D30	D10	LL	PL	PI	%Silt	%Clay
●	TP-08	3.0ft.	100	0.859						31.3	
☒	TP-08	5.0ft.	37.5	0.463						33.9	

APPENDIX B
Haley & Aldrich Field Exploration Logs

APPENDIX B

Field Explorations

This appendix documents the processes Haley & Aldrich, Inc. (Haley & Aldrich) used to determine the nature of the soils at the project site, and contains the following sections:

- Explorations and Their Locations;
- Hollow Stem Auger;
- Standard Penetration Test (SPT) Procedures;
- In the Event of Hard Driving; and
- Excavation of Test Pits.

EXPLORATIONS AND THEIR LOCATIONS

The exploration logs in this appendix show our interpretation of the excavation, sampling, and testing data. The logs indicate the approximate depth where the soils change. The soil changes may be gradual and may vary in depth across the site.

In the field, we classified the soil samples according to the methods shown on Figure B-1, Key to Exploration Logs. The figure's legend explains the symbols and abbreviations used on the logs.

Figure 2 shows the exploration locations based on measuring from existing features. Elevations are referenced to the North American Vertical Datum of 1988 (NAVD88).

HOLLOW STEM AUGER

Borings HA24-B1 to HA24-B6 were drilled with the hollow stem auger technique from 26 September to 27 September 2024. These borings were advanced with a track-mounted drilling rig subcontracted by Haley & Aldrich.

Boring HA-24-B1 to HA-24-B7 were located in Everett Smelter B1 site. Borings were advanced to depths ranging from about 16 to 31 feet below existing grades.

A Haley Aldrich geologist or geotechnical engineer was on site to continuously observe the drilling. Detailed field logs were prepared for the borings. Using SPT, we obtained samples at 2.5- and 5-foot increments to the maximum depths explored. The boring logs are presented in this appendix.

STANDARD PENETRATION TEST PROCEDURES

The SPT (as described in ASTM International [ASTM] D 1586) is an approximate measure of soil density and consistency. To be useful, the results must be interpreted in conjunction with other tests. The SPT was used to obtain disturbed soil samples.

This test employs a standard 2-inch-outside-diameter split-spoon sampler. A 140-pound autohammer free-falling 30 inches drives the sampler into the soil for 18 inches. The number of blows required to drive the sampler the last 12 inches is the standard penetration resistance. This resistance, or blow

count, measures the relative density of granular soils and the consistency of cohesive soils. The blow counts are plotted on the boring logs at their respective sample depths.

Soil samples were recovered from the split-spoon sampler, field classified, placed into watertight jars, and taken to Haley & Aldrich's laboratory for further testing.

IN THE EVENT OF HARD DRIVING

Occasionally, very dense materials preclude driving the total 18-inch sample. When this happens, the penetration resistance is entered on logs as follows:

- **Penetration less than 6 inches.** The log indicates the total number of blows over the number of inches of penetration.
- **Penetration greater than 6 inches.** The blow count noted on the log is the sum of the total number of blows completed after the first 6 inches of penetration. This sum is expressed over the number of inches driven that exceed the first 6 inches. The number of blows needed to drive the first 6 inches is not reported. For example, a blow count series of 12 blows for 6 inches, 30 blows for 6 inches, and 50 (the maximum number of blows counted within a 6-inch increment for SPT) for 3 inches would be recorded as 80/9.

Excavation of Test Pits

Six test pits, designated HA24-TP-1 through HATP-6, were excavated across the site on 4 October 2024, with a backhoe subcontracted by our firm. The sides of these excavated pits offer direct observation of the subgrade soils. The test pits were located by and excavated under the direction of an engineering geologist from Haley & Aldrich. The geologist observed the soil exposed in the test pits and reported the findings on a field log. Our geologist collected representative samples of soil types for testing at Haley & Aldrich's laboratory. Groundwater levels or seepage were noted during excavation. The density/consistency of the soils (as presented parenthetically on the test pit logs to indicate there having been estimated) is based on visual observation only as disturbed soils cannot be measured for in-place density in the laboratory.

The test pit logs are presented on B-8 through B-13.

Sample Description

Identification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. ASTM D 2488 visual-manual identification methods were used as a guide. Where laboratory testing confirmed visual-manual identifications, then ASTM D 2487 was used to classify the soils.

Relative Density/Consistency

Soil density/consistency in borings is related primarily to the standard penetration resistance (N). Soil density/consistency in test pits and probes is estimated based on visual observation and is presented parenthetically on the logs.

SAND or GRAVEL Relative Density	N (Blows/Foot)	SILT or CLAY Consistency	N (Blows/Foot)
Very loose	0 to 4	Very soft	0 to 1
Loose	5 to 10	Soft	2 to 4
Medium dense	11 to 30	Medium stiff	5 to 8
Dense	31 to 50	Stiff	9 to 15
Very dense	>50	Very stiff	16 to 30
		Hard	>30

Moisture

Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, usually soil is below water table

USCS Soil Classification Chart (ASTM D 2487)

Major Divisions		Symbols		Typical Descriptions
		Graph	USCS	
Coarse Grained Soils More than 50% of Material Retained on No. 200 Sieve	Gravel and Gravelly Soils More than 50% of Coarse Fraction Retained on No. 4 Sieve	Clean Gravels (<5% fines)	GW	Well-Graded Gravel; Well-Graded Gravel with Sand
			GP	Poorly Graded Gravel; Poorly Graded Gravel with Sand
		Gravels (5-12% fines)	GW-GM	Well-Graded Gravel with Silt; Well-Graded Gravel with Silt and Sand
			GW-GC	Well-Graded Gravel with Clay; Well-Graded Gravel with Clay and Sand
			GP-GM	Poorly Graded Gravel with Silt; Poorly Graded Gravel with Silt and Sand
			GP-GC	Poorly Graded Gravel with Clay; Poorly Graded Gravel with Clay and Sand
	Sand and Sandy Soils More than 50% of Coarse Fraction Passing No. 4 Sieve	Gravels with Fines (>12% fines)	GM	Silty Gravel; Silty Gravel with Sand
			GC	Clayey Gravel; Clayey Gravel with Sand
		Sands with few Fines (<5% fines)	SW	Well-Graded Sand; Well-Graded Sand with Gravel
			SP	Poorly Graded Sand; Poorly Graded Sand with Gravel
			SW-SM	Well-Graded Sand with Silt; Well-Graded Sand with Silt and Gravel
			SW-SC	Well-Graded Sand with Clay; Well-Graded Sand with Clay and Gravel
Fine Grained Soils More than 50% of Material Passing No. 200 Sieve	Sands (5-12% fines)		SP-SM	Poorly Graded Sand with Silt; Poorly Graded Sand with Silt and Gravel
			SP-SC	Poorly Graded Sand with Clay; Poorly Graded Sand with Clay and Gravel
		Sands with Fines (>12% fines)	SM	Silty Sand; Silty Sand with Gravel
	Silt		SC	Clayey Sand; Clayey Sand with Gravel
			ML	Silt; Silt with Sand or Gravel; Sandy or Gravelly Silt
			MH	Elastic Silt; Elastic Silt with Sand or Gravel; Sandy or Gravelly Elastic Silt
	Silty Clay (based on Atterberg Limits)		CL-ML	Silty Clay; Silty Clay with Sand or Gravel; Gravelly or Sandy Silty Clay
			CL	Lean Clay; Lean Clay with Sand or Gravel; Sandy or Gravelly Lean Clay
	Clays		CH	Fat Clay; Fat Clay with Sand or Gravel; Sandy or Gravelly Fat Clay
			OL/OH	Organic Soil; Organic Soil with Sand or Gravel; Sandy or Gravelly Organic Soil
	Highly Organic (>50% organic material)		PT	Peat - Decomposing Vegetation - Fibrous to Amorphous Texture

Minor Constituents

Estimated Percentage

Sand, Gravel	
Trace	<5
Few	5 - 15
Cobbles, Boulders	
Trace	<5
Few	5 - 10
Little	15 - 25
Some	30 - 45

Soil Test Symbols

%F	Percent Passing No. 200 Sieve
AL	Atterberg Limits (%)
	Liquid Limit (LL)
	Water Content (WC)
	Plastic Limit (PL)

CA	Chemical Analysis
CAUC	Consolidated Anisotropic Undrained Compression
CAUE	Consolidated Anisotropic Undrained Extension
CBR	California Bearing Ratio
CIDC	Consolidated Drained Isotropic Triaxial Compression
CIUC	Consolidated Isotropic Undrained Compression
CK0DC	Consolidated Drained k0 Triaxial Compression
CK0DSS	Consolidated k0 Undrained Direct Simple Shear
CK0UC	Consolidated k0 Undrained Compression
CK0UE	Consolidated k0 Undrained Extension
CRSCN	Constant Rate of Strain Consolidation
DS	Direct Shear
DSS	Direct Simple Shear
DT	In Situ Density
GS	Grain Size Classification
HYD	Hydrometer
ILCN	Incremental Load Consolidation
K0CN	k0 Consolidation
kc	Constant Head Permeability
kf	Falling Head Permeability
MD	Moisture Density Relationship
OC	Organic Content
OT	Tests by Others
P	Pressuremeter
PID	Photoionization Detector Reading
PP	Pocket Penetrometer
SG	Specific Gravity
TRS	Torsional Ring Shear
TV	Torvane
UC	Unconfined Compression
UUC	Unconsolidated Undrained Triaxial Compression
VS	Vane Shear
WC	Water Content (%)

Groundwater Indicators

▽	Groundwater Level on Date or At Time of Drilling (ATD)
▽	Groundwater Level on Date Measured in Piezometer
○	Groundwater Seepage (Test Pits)

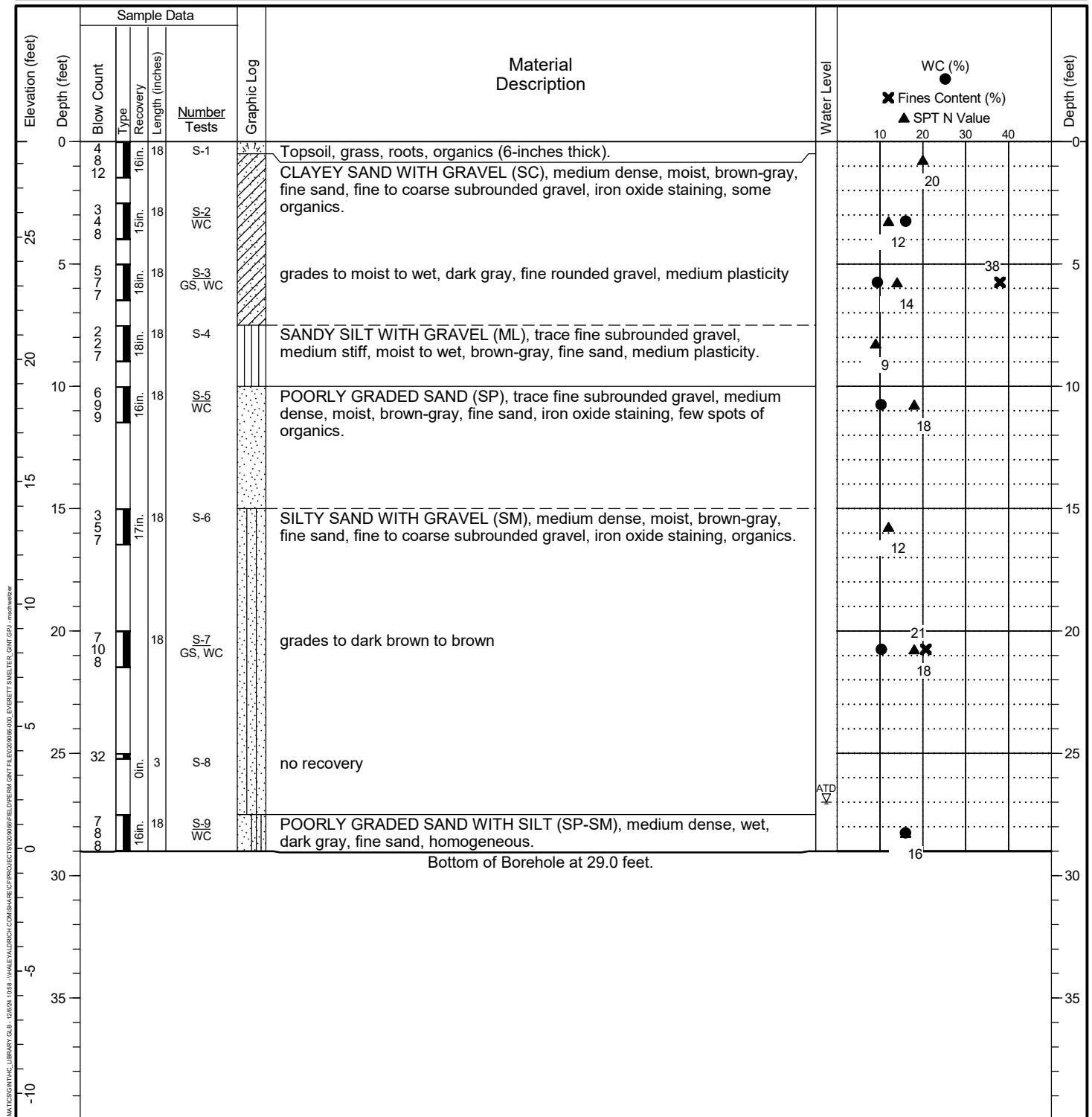
Sample Symbols

☒	1.5" I.D. Split Spoon	■	Rock Core Run	☒	Grab
☒	3.0" I.D. Split Spoon	■	Sonic Core	☒	Cuttings
☒	Modified California Sampler	☒	Thin-walled Sampler	☒	Push Probe

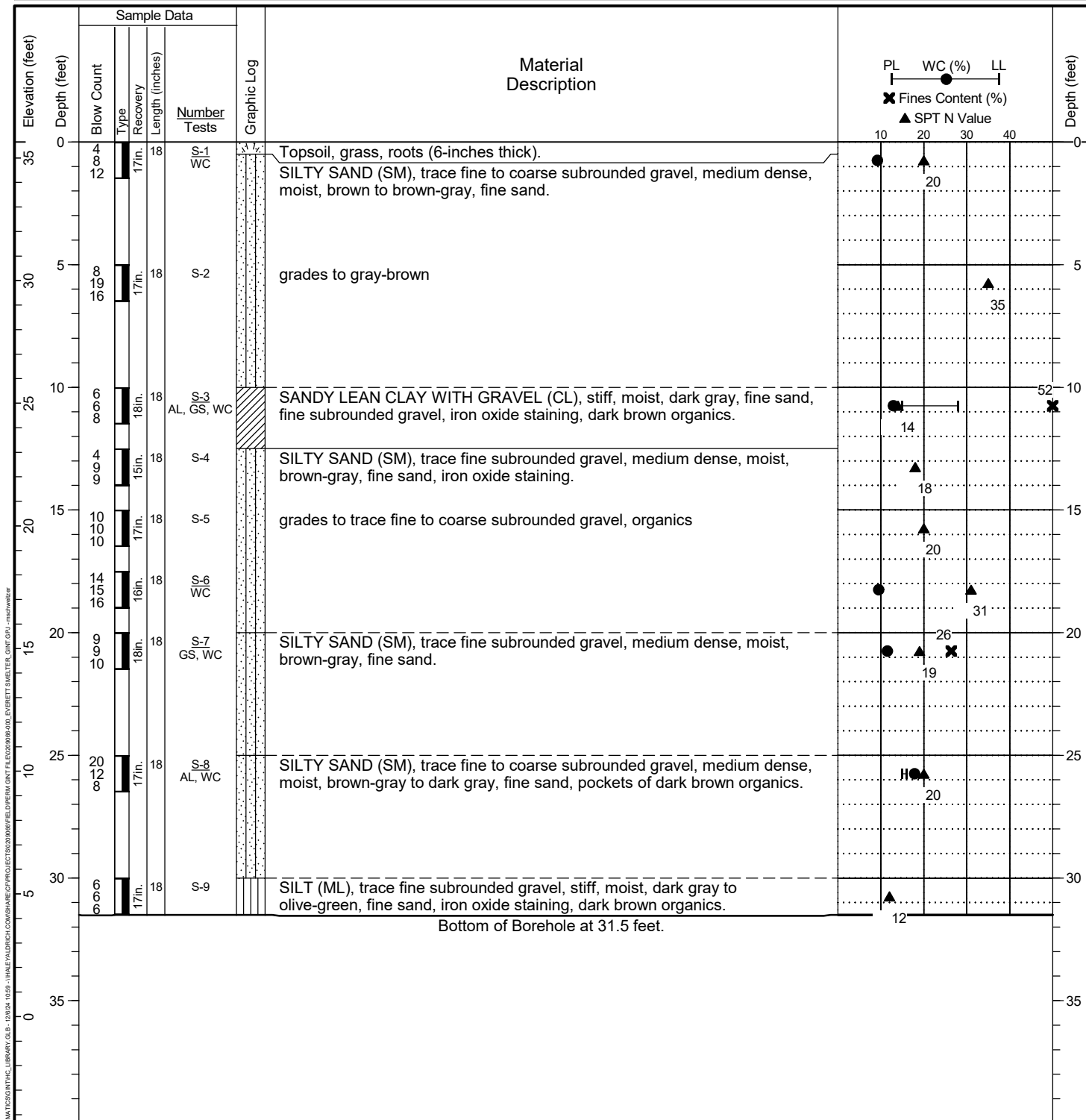
Well Symbols

Monument	Signal Cable
Surface Seal	Extensometer Sensor (EXT)
Bentonite Seal	Extensometer
Bentonite-Cement	Anchor
Well Casing	Vibrating Wire
Sand Pack	Piezometer (VP)
Well Tip or Slotted Screen	
Slough	

Date Started: 09/27/2024	Date Completed: 09/27/2024	Drilling Contractor/Crew: Holt Services, Inc. / Abraham
Logged by: G. Sebbane	Checked by: A. Harne	Drilling Method: Hollow Stem Auger
Location: Lat: 48.009181 Long: -122.188147 (WGS 84)		Rig Model/Type: Mobile B-57 / Track-mounted drill rig
Ground Surface Elevation: 28.90 feet (NAVD 88)		Hammer Type: Auto-hammer
Comments: Blow counts for >1.5" split spoon adjusted to approximate SPT		Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
N-values (see report text).		Measured Hammer Efficiency (%): Not Available
		Hole Diameter: 8 inches Well Casing Diameter: NA
		Total Depth: 29.0 feet Depth to Groundwater: 27 feet



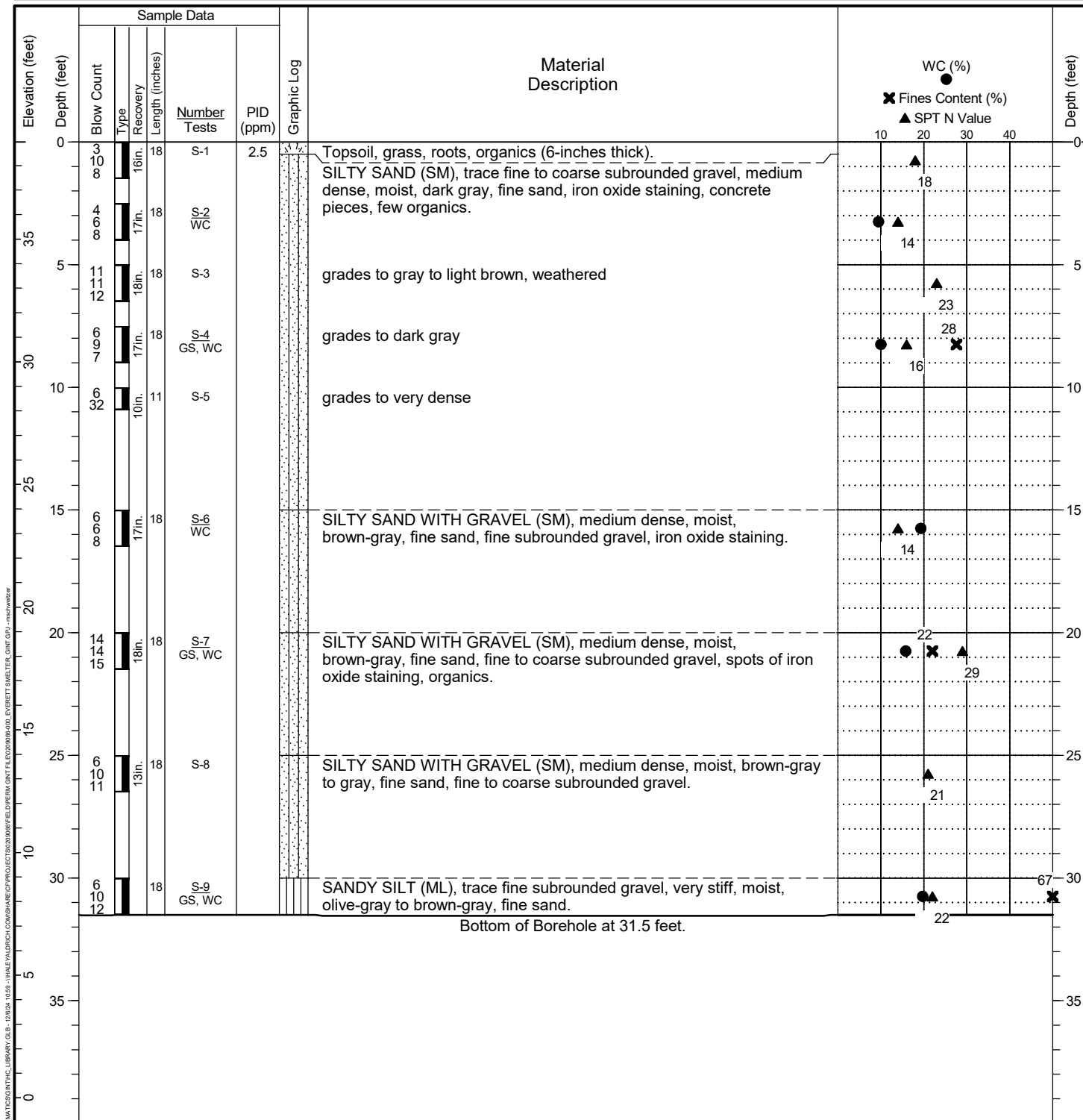
Date Started: 09/27/2024	Date Completed: 09/27/2024	Drilling Contractor/Crew: Holt Services, Inc. / Abraham
Logged by: G. Sebbane	Checked by: A. Harne	Drilling Method: Hollow Stem Auger
Location: Lat: 48.008649 Long: -122.188171 (WGS 84)		Rig Model/Type: Mobile B-57 / Track-mounted drill rig
Ground Surface Elevation: 35.65 feet (NAVD 88)		Hammer Type: Auto-hammer
Comments: Blow counts for >1.5" split spoon adjusted to approximate SPT		Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
N-values (see report text).		Measured Hammer Efficiency (%): Not Available
		Hole Diameter: 8 inches Well Casing Diameter: NA
		Total Depth: 31.5 feet Depth to Groundwater: Not Identified



General Notes:

1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

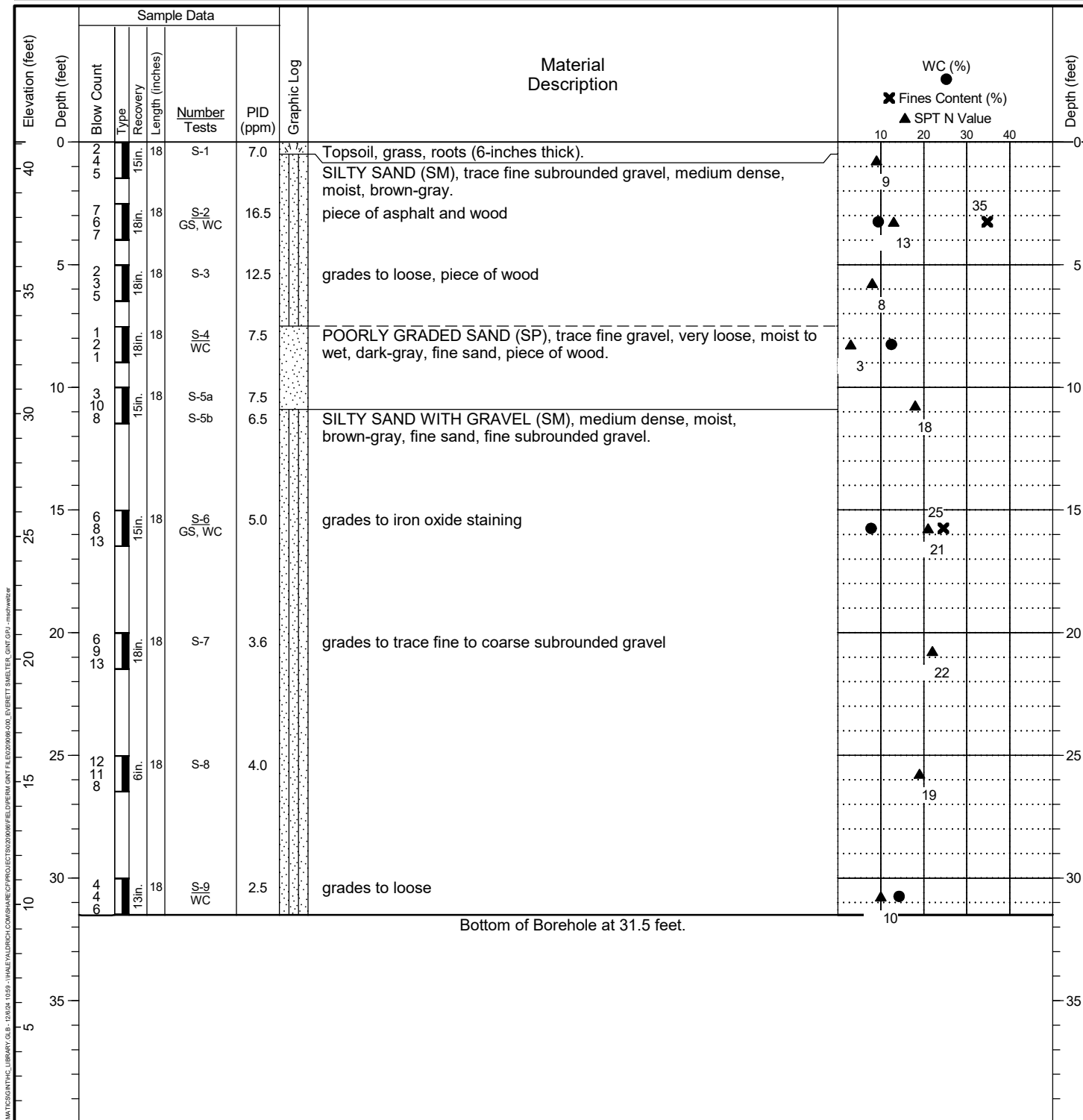
Date Started: 09/27/2024	Date Completed: 09/27/2024	Drilling Contractor/Crew: Holt Services, Inc. / Abraham
Logged by: G. Sebbane	Checked by: A. Harne	Drilling Method: Hollow Stem Auger
Location: Lat: 48.008242 Long: -122.188118 (WGS 84)		Rig Model/Type: Mobile B-57 / Track-mounted drill rig
Ground Surface Elevation: 38.96 feet (NAVD 88)		Hammer Type: Auto-hammer
Comments: Blow counts for >1.5" split spoon adjusted to approximate SPT		Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
N-values (see report text).		Measured Hammer Efficiency (%): Not Available
		Hole Diameter: 8 inches Well Casing Diameter: NA
		Total Depth: 31.5 feet Depth to Groundwater: Not Identified



General Notes:

1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

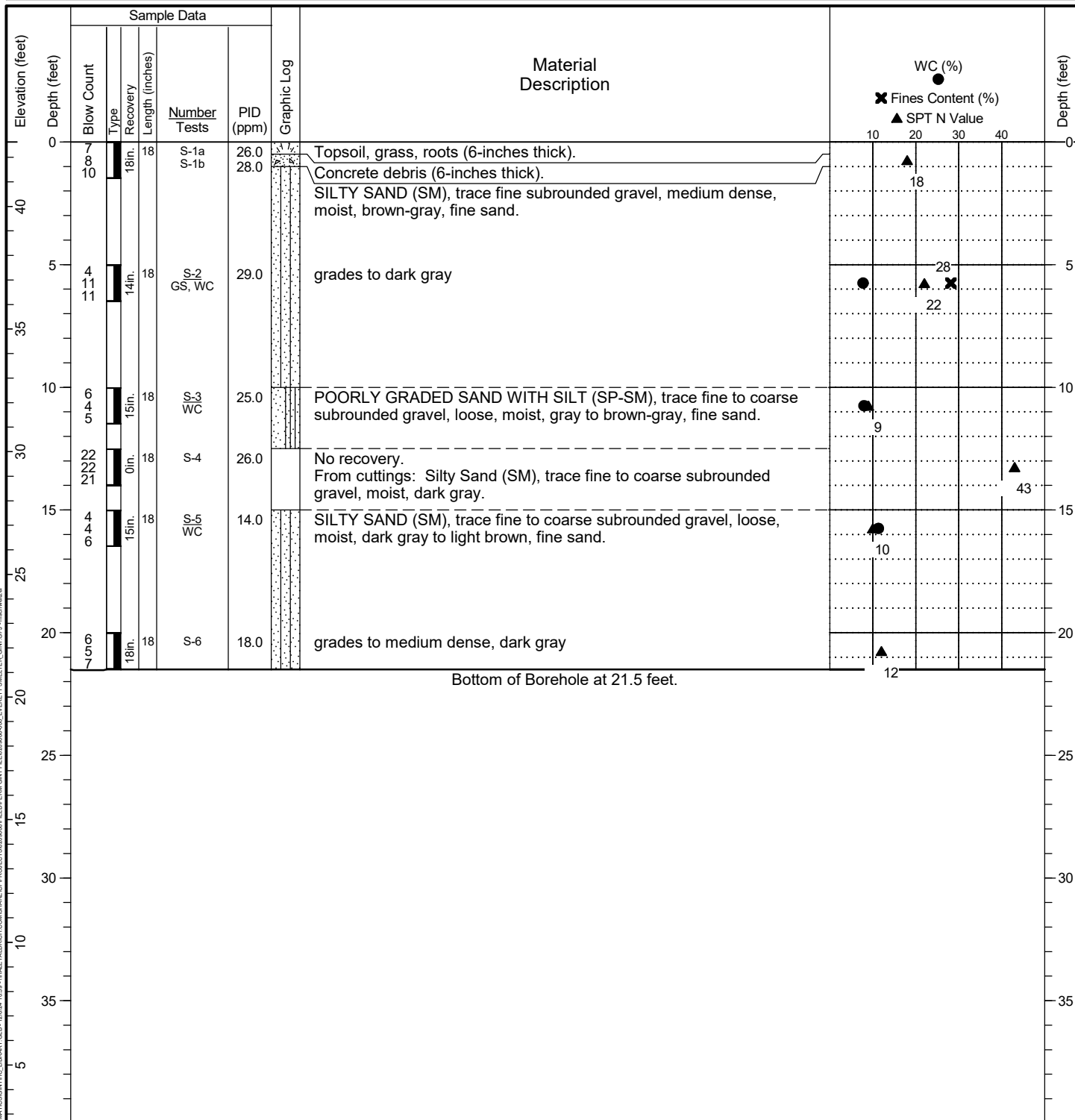
Date Started: 09/26/2024	Date Completed: 09/26/2024	Drilling Contractor/Crew: Holt Services, Inc. / Abraham
Logged by: G. Sebbane	Checked by: A. Harne	Drilling Method: Hollow Stem Auger
Location: Lat: 48.007777 Long: -122.188016 (WGS 84)		Rig Model/Type: Mobile B-57 / Track-mounted drill rig
Ground Surface Elevation: 41.08 feet (NAVD 88)		Hammer Type: Auto-hammer
Comments: Blow counts for >1.5" split spoon adjusted to approximate SPT		Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
N-values (see report text).		Measured Hammer Efficiency (%): Not Available
		Hole Diameter: 8 inches Well Casing Diameter: NA
		Total Depth: 31.5 feet Depth to Groundwater: Not Identified



General Notes:

1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

Date Started: 09/26/2024	Date Completed: 09/26/2024	Drilling Contractor/Crew: Holt Services, Inc. / Abraham
Logged by: G. Sebbane	Checked by: A. Harne	Drilling Method: Hollow Stem Auger
Location: Lat: 48.007850 Long: -122.188565 (WGS 84)		Rig Model/Type: Mobile B-57 / Track-mounted drill rig
Ground Surface Elevation: 42.62 feet (NAVD 88)		Hammer Type: Auto-hammer
Comments: Blow counts for >1.5" split spoon adjusted to approximate SPT		Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
N-values (see report text).		Measured Hammer Efficiency (%): Not Available
		Hole Diameter: 8 inches Well Casing Diameter: NA
		Total Depth: 21.5 feet Depth to Groundwater: Not Identified



General Notes:

1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

Drilling Contractor/Crew: Holt Services, Inc. / Abraham

Drilling Method: Hollow Stem Auger

Rig Model/Type: Mobile B-57 / Track-mounted drill rig

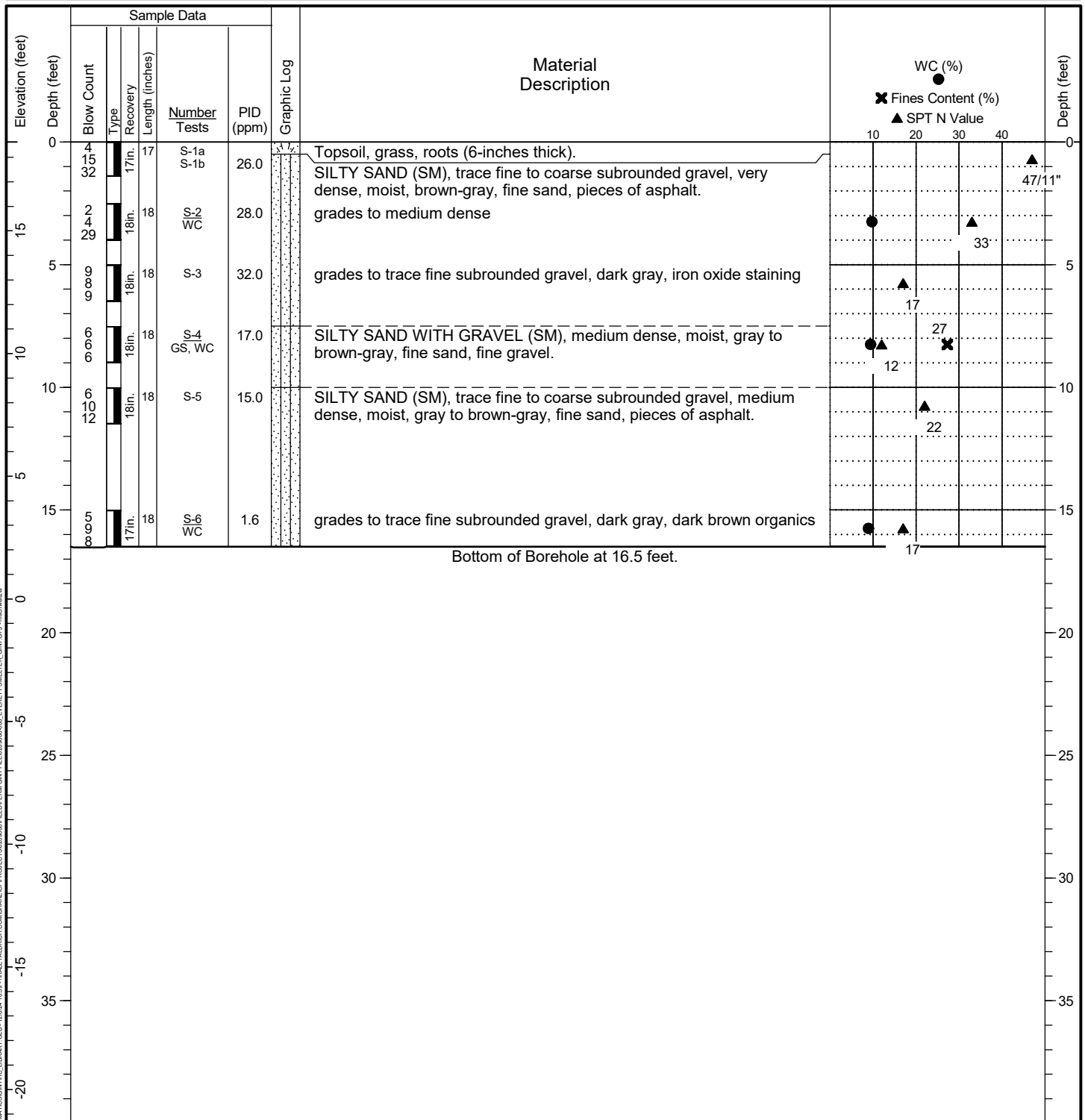
Hammer Type: Auto-hammer

Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30

Measured Hammer Efficiency (%): Not Available

Well Casing Diameter: NA

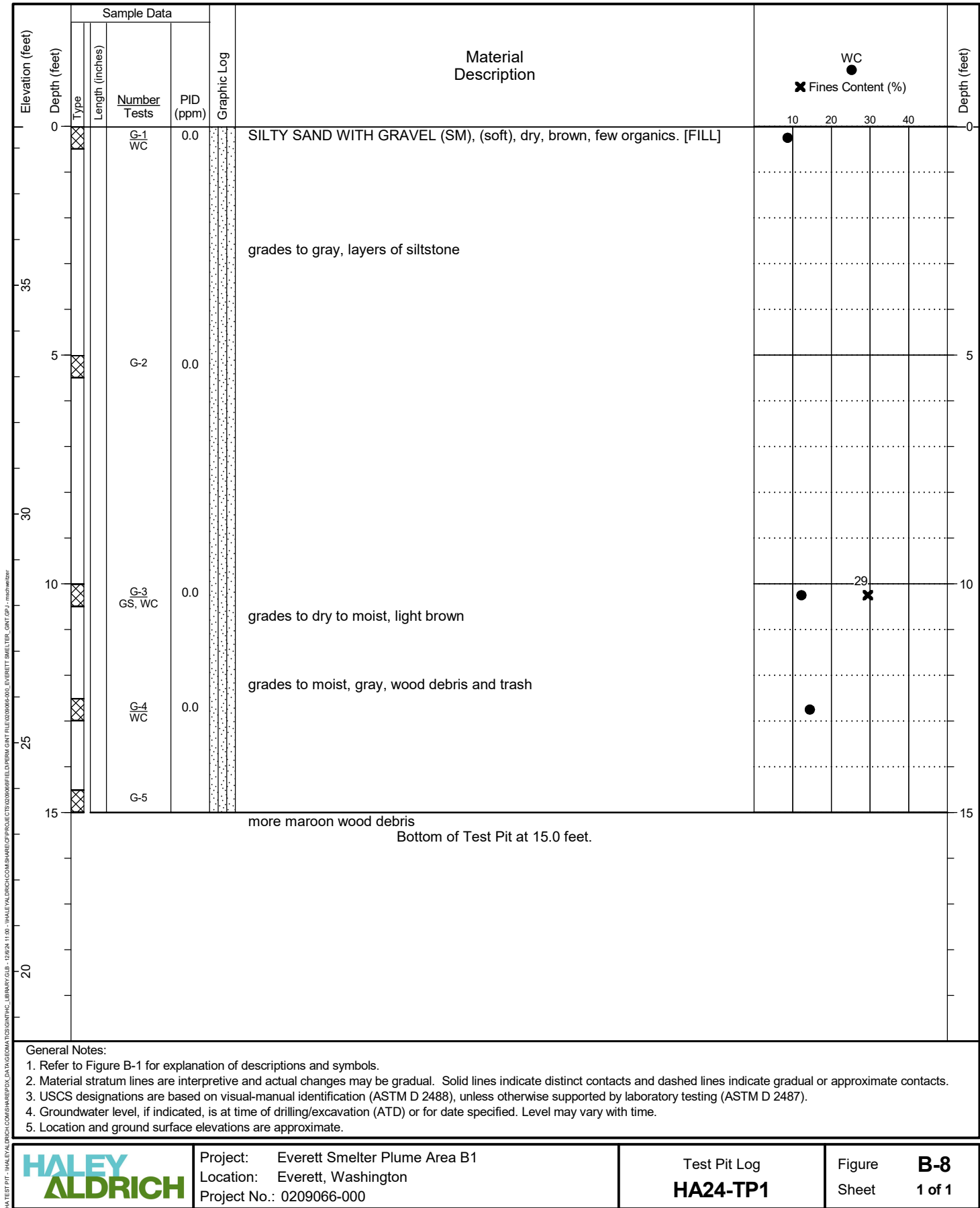
Depth to Groundwater: Not Identified



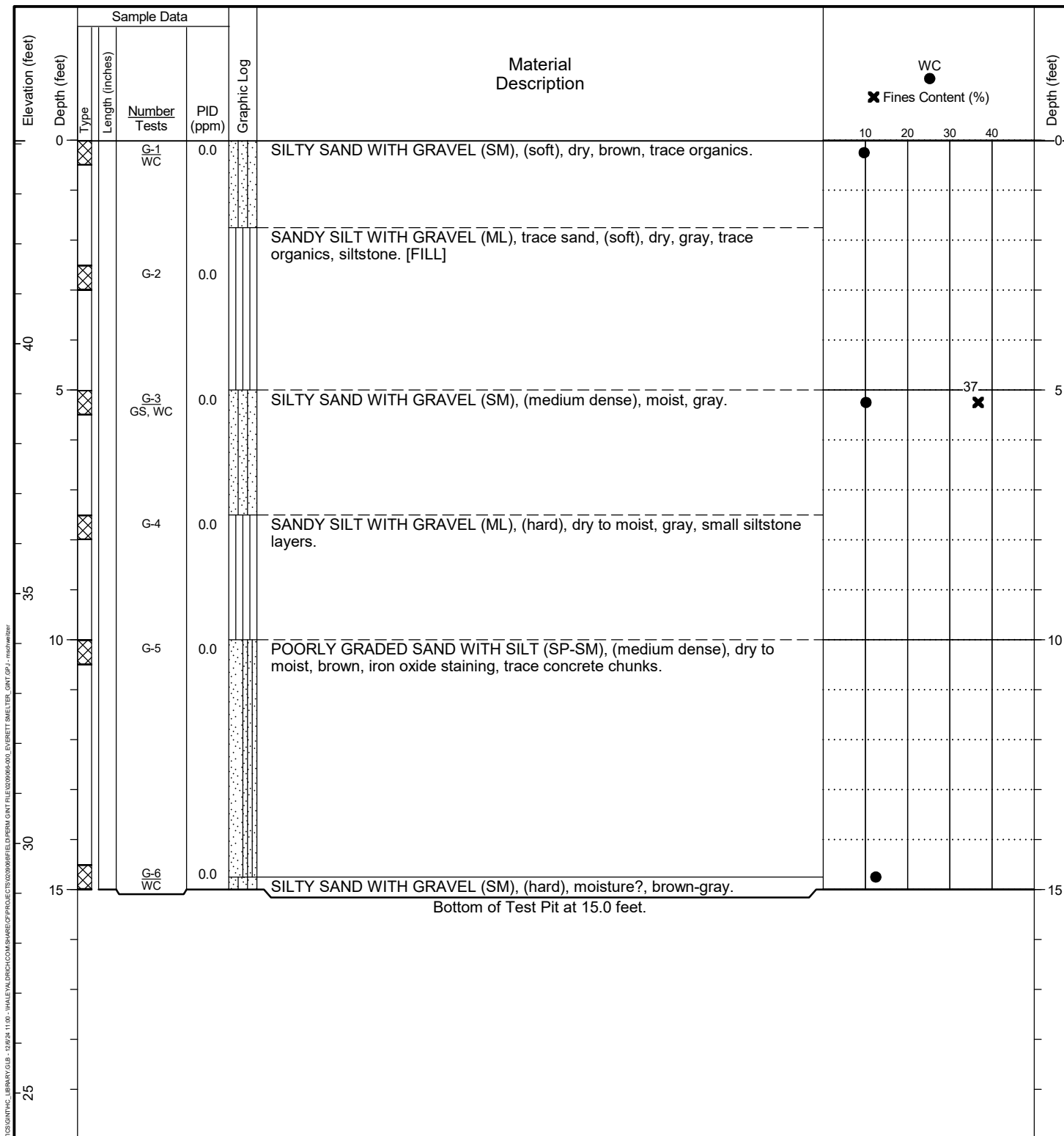
General Notes:

1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

Date Started: 10/04/2024	Date Completed: 10/04/2024	Contractor/Crew: Holt Services, Inc. / Eric
Logged by: A. Gourlay	Checked by: A. Harne	Rig Model/Type: Komatsu PC138USLC-11
Location: Lat: 48.009618 Long: -122.188198 (WGS 84)		Total Depth: 15.0 feet Depth to Seepage: Not Encountered
Ground Surface Elevation: 38.47 feet (NAVD 88)		
Comments:		



Date Started: 10/04/2024	Date Completed: 10/04/2024	Contractor/Crew: Holt Services, Inc. / Eric
Logged by: A. Gourlay	Checked by: A. Harne	Rig Model/Type: Komatsu PC138USLC-11
Location: Lat: 48.009417 Long: -122.188289 (WGS 84)	Total Depth: 15.0 feet	Depth to Seepage: Not Encountered
Ground Surface Elevation: 44.08 feet (NAVD 88)	Comments:	



General Notes:

1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.



Project: Everett Smelter Plume Area B1
Location: Everett, Washington
Project No.: 0209066-000

Test Pit Log
HA24-TP2

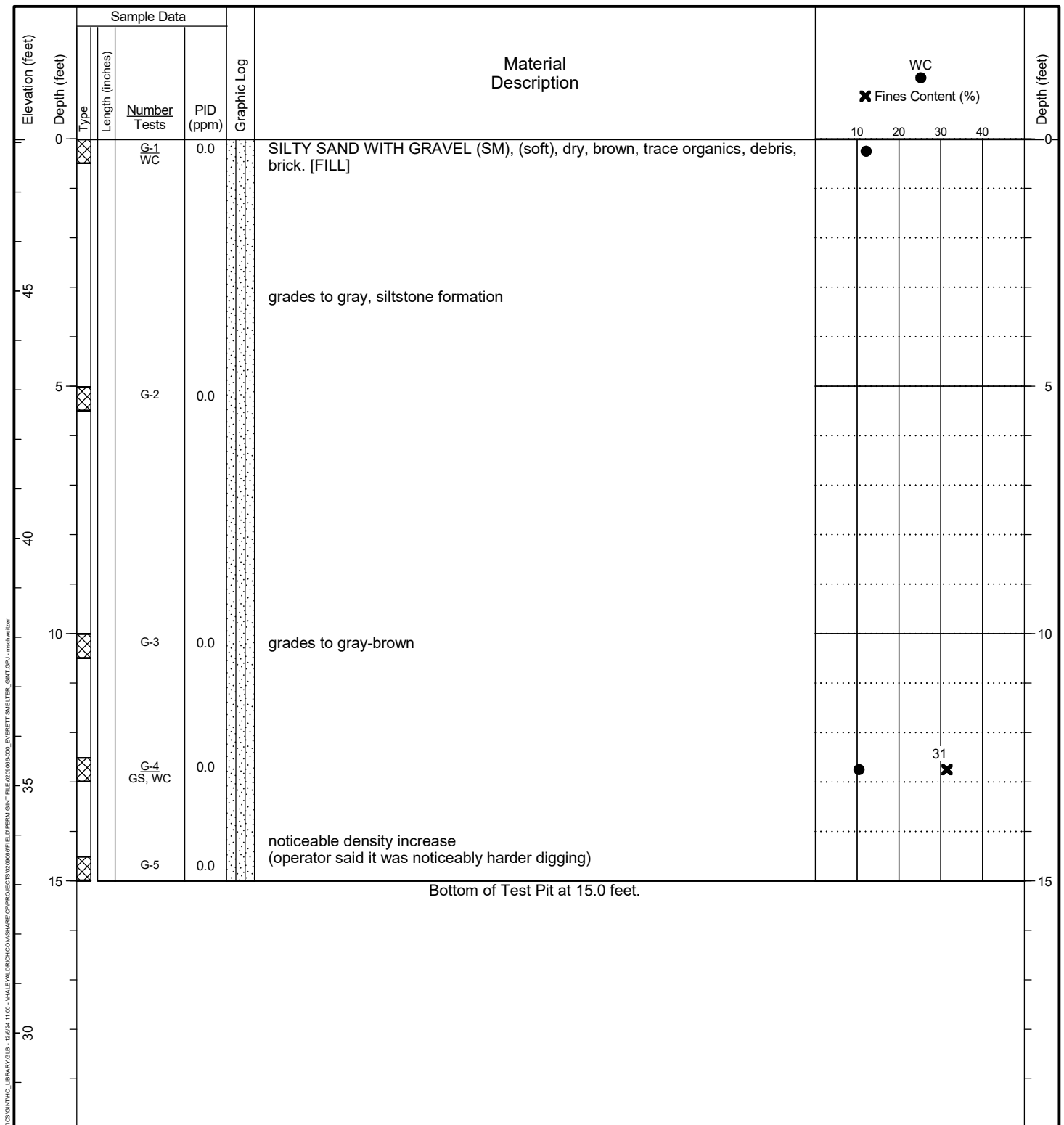
Figure **B-9**
Sheet **1 of 1**

Contractor/Crew: Holt Services, Inc. / EricRig Model/Type: Komatsu PC138USLC-11

Total Depth: 15.0 feet Depth to Seepage: Not Encountered

Ground Surface Elevation: 48.07 feet (NAVD 88)

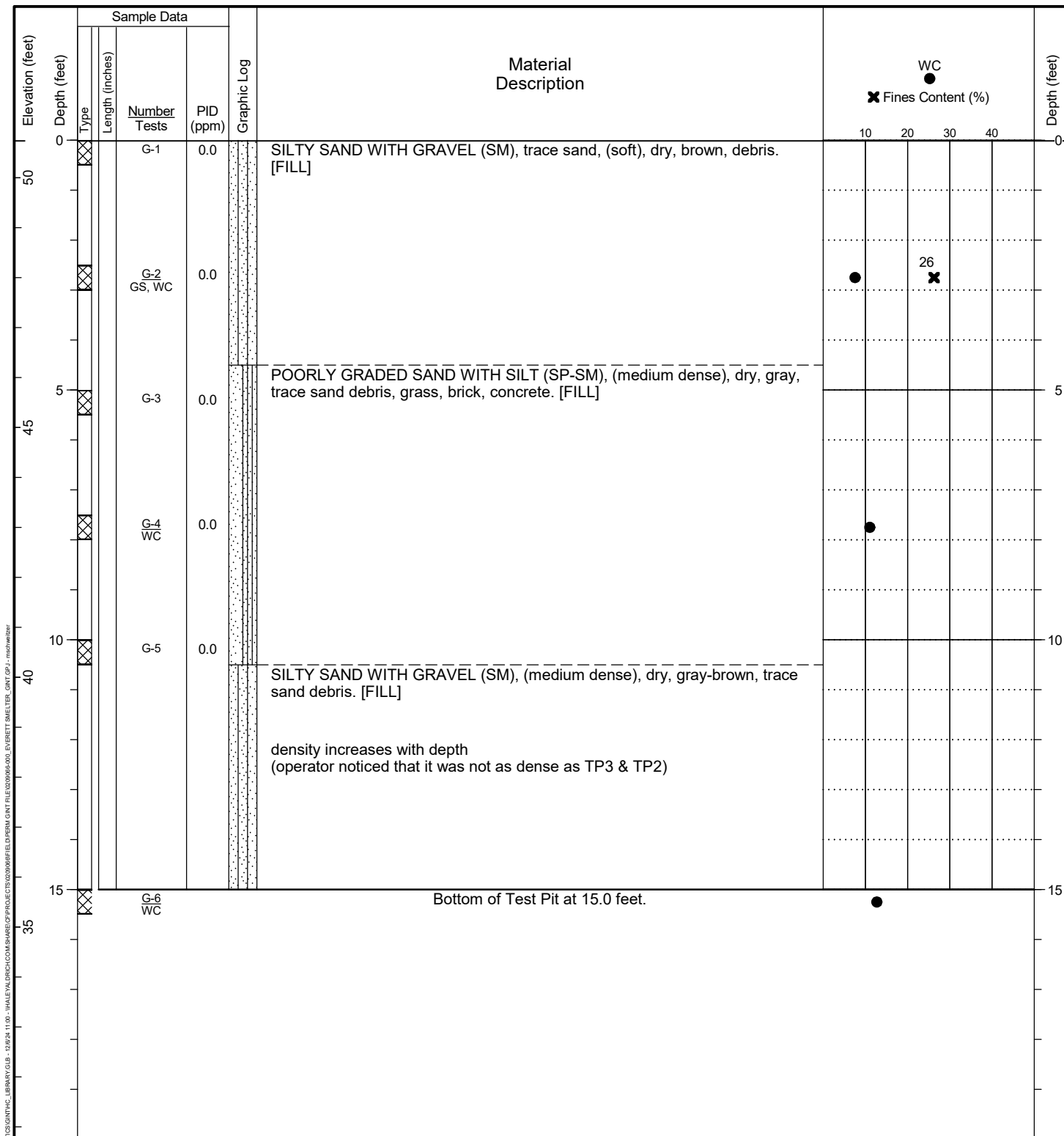
Comments:



General Notes:

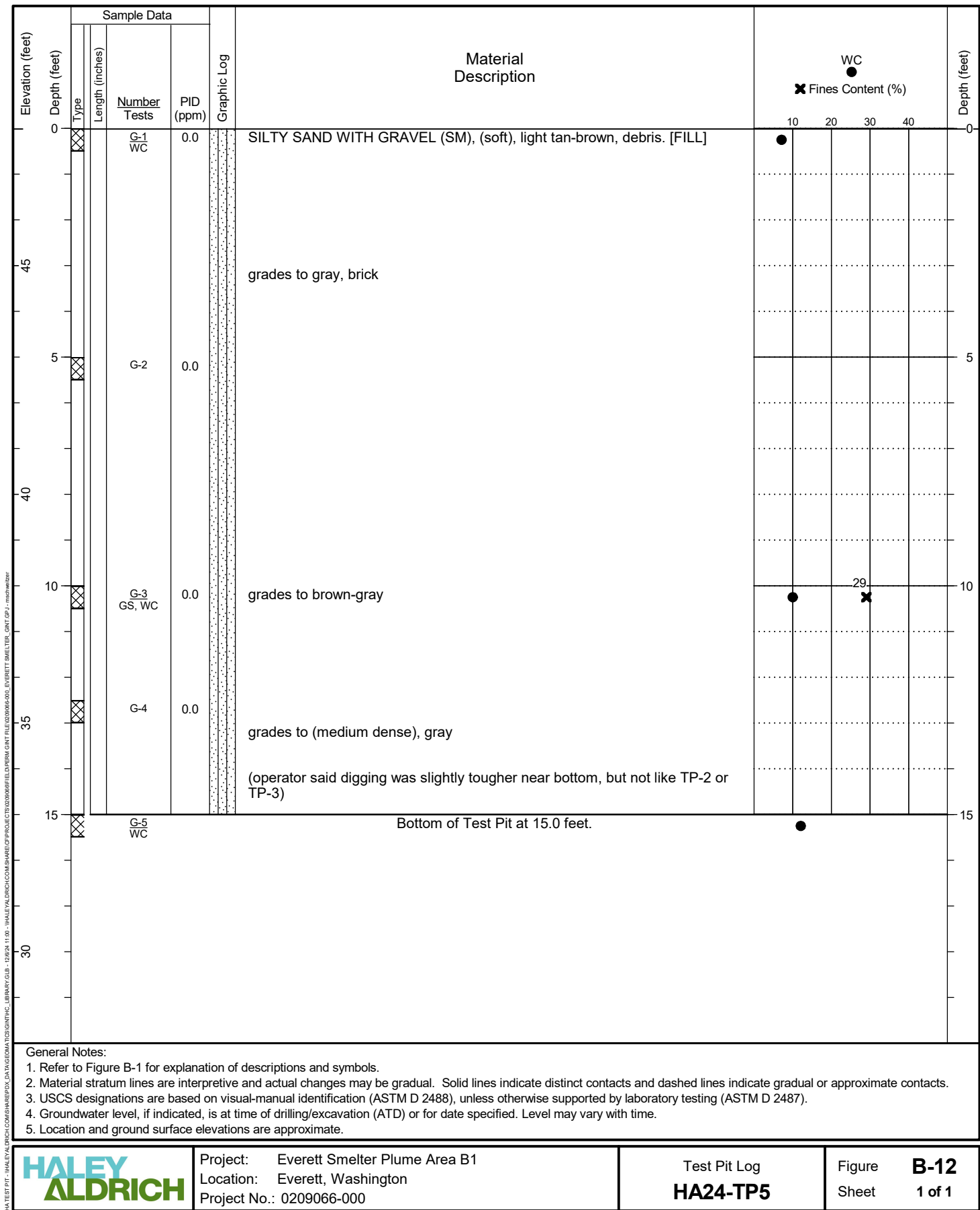
1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

Date Started: 10/04/2024	Date Completed: 10/04/2024	Contractor/Crew: Holt Services, Inc. / Eric
Logged by: A. Gourlay	Checked by: A. Harne	Rig Model/Type: Komatsu PC138USLC-11
Location: Lat: 48.008918 Long: -122.188325 (WGS 84)		Total Depth: 15.0 feet
Ground Surface Elevation: 50.75 feet (NAVD 88)		Depth to Seepage: Not Encountered
Comments:		

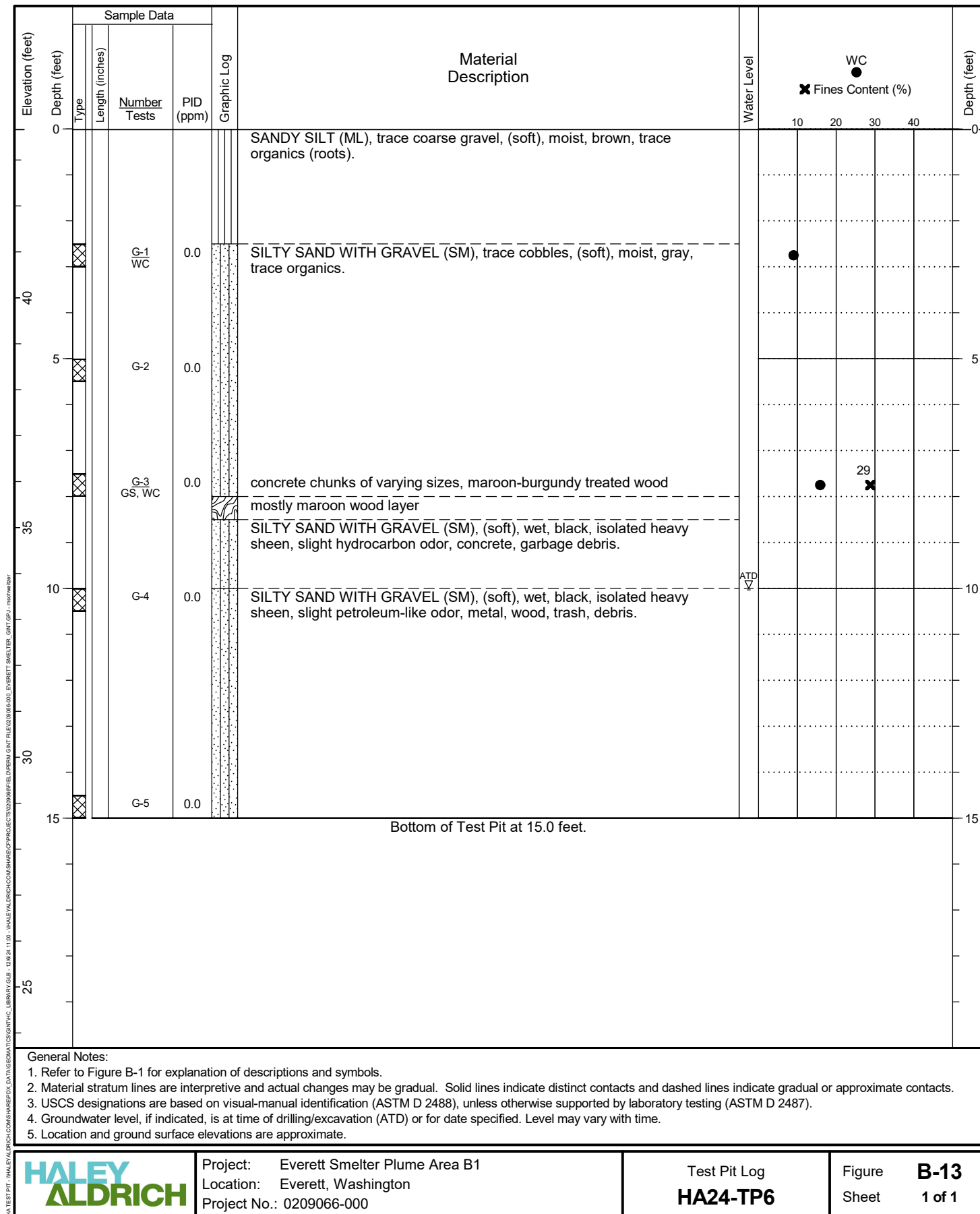


- General Notes:
- Refer to Figure B-1 for explanation of descriptions and symbols.
 - Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 - USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 - Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 - Location and ground surface elevations are approximate.

Date Started: 10/04/2024	Date Completed: 10/04/2024	Contractor/Crew: Holt Services, Inc. / Eric
Logged by: A. Gourlay	Checked by: A. Harne	Rig Model/Type: Komatsu PC138USLC-11
Location: Lat: 48.008648 Long: -122.188520 (WGS 84)		Total Depth: 15.0 feet Depth to Seepage: Not Encountered
Ground Surface Elevation: 48.00 feet (NAVD 88)		
Comments:		



Date Started: 10/04/2024	Date Completed: 10/04/2024	Contractor/Crew: Holt Services, Inc. / Eric
Logged by: A. Gourlay	Checked by: A. Harne	Rig Model/Type: Komatsu PC138USLC-11
Location: Lat: 48.009848 Long: -122.188219 (WGS 84)	Total Depth: 15.0 feet Depth to Seepage: 10 feet	
Ground Surface Elevation: 18.62 feet (NAVD 88)		
Comments:		



APPENDIX C

Chemical Data Quality Review and Laboratory Reports

Data Usability Summary Report

Project Name: Everett Smelter Plume Area B1

Project Description: Soil Samples

Sample Date(s): 26 September through 04 October 2024

Analytical Laboratory: OnSite Environmental, Inc. – Redmond, Washington

Validation Performed by: Gabrielle Davis

Validation Reviewed by: Katherine Miller

Validation Date: 31 October 2024

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group(s) (SDGs) listed. This DUSR is organized into the following sections:

1. Sample Delivery Group Numbers 2409-379 and 2410-140
2. Explanations
3. Glossary
4. Abbreviations
5. Qualifiers

References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Inorganic Data Review.
- NFG for Organic Data Review.

Data reported in this sampling event were reported to the laboratory reporting limit (RL).

Sample data were qualified in accordance with the laboratory's standard operating procedures. The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Group Numbers 2409-379 and 2410-140

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG number(s).

- 2409-379, dated 16 October 2024; and
- 2410-140, dated 23 October 2024.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols. Samples were also received appropriately, identified correctly, and analyzed according to the COC.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
HA-B-1-S-3	N	2409-379-01	09/27/2024	SO	A, B, C, D, E, F, G, H
HA-B-1-S-5	N	2409-379-02	09/27/2024	SO	A, B, C, D, E, F, G, H
HA-FD-1	FD	2409-379-06	09/27/2024	SO	A, B, C, D, E, F, G, H
HA-B-2-S-2	N	2409-379-07	09/27/2024	SO	A, B, C, D, E, F, G, H
HA-B-2-S-5	N	2409-379-09	09/27/2024	SO	A, B, C, D, E, F, G, H
HA-B-2-S-9	N	2409-379-12	09/27/2024	SO	A, B, C, D, E, F, G, H
HA-B-3-S-3	N	2409-379-13	09/27/2024	SO	A, B, C, D, E, F, G, H, I, J
HA-B-3-S-5	N	2409-379-14	09/27/2024	SO	A, B, C, D, E, F, G, H
HA-B-3-S-8	N	2409-379-17	09/27/2024	SO	A, B, C, D, E, F, G, H
HA-B-4-S-1	N	2409-379-19	09/26/2024	SO	A, B, C, D, E, F, G, H, I, J
HA-B-4-S-3	N	2409-379-21	09/26/2024	SO	A, B, C, D, E, F, G, H
HA-B-4-S-8	N	2409-379-26	09/26/2024	SO	A, B, C, D, E, F, G, H
HA-B-5-S-2	N	2409-379-29	09/26/2024	SO	A, B, C, D, E, F, G, H, I, J
HA-B-5-S-3	N	2409-379-30	09/26/2024	SO	A, B, C, D, E, F, G, H
HA-B-5-S-6	N	2409-379-32	09/26/2024	SO	A, B, C, D, E, F, G, H
HA-B-6-S-3	N	2409-379-33	09/26/2024	SO	A, B, C, D, E, F, G, H
HA-B-6-S-5	N	2409-379-34	09/26/2024	SO	A, B, C, D, E, F, G, H
HA-B-6-S-6	N	2409-379-35	09/26/2024	SO	A, B, C, D, E, F, G, H
HA24-TP6-5.0	N	2410-140-01	10/04/2024	SO	A, B, C, D, E, F, G, H
HA24-TP6-10	N	2410-140-02	10/04/2024	SO	A, B, C, D, E, F, G, H
HA24-TP6-15	N	2410-140-03	10/04/2024	SO	A, B, C, D, E, F, G, H, I, J
HA24-TP1-5.0	N	2410-140-04	10/04/2024	SO	A, B, C, D, E, F, G, H
HA24-TP1-15	N	2410-140-06	10/04/2024	SO	A, B, C, D, E, F, G, H
HA24-TP2-10	N	2410-140-08	10/04/2024	SO	A, B, C, D, E, F, G, H, I, J
HA24-TP3-5.0	N	2410-140-10	10/04/2024	SO	A, B, C, D, E, F, G, H
HA24-TP3-10	N	2410-140-11	10/04/2024	SO	A, B, C, D, E, F, G, H
HA24-TP4-5.0	N	2410-140-13	10/04/2024	SO	A, B, C, D, E, F, G, H
HA24-TP4-10	N	2410-140-14	10/04/2024	SO	A, B, C, D, E, F, G, H
HA24-TP5-5.0	N	2410-140-16	10/04/2024	SO	A, B, C, D, E, F, G, H, I, J
HA24-TP5-10	N	2410-140-17	10/04/2024	SO	A, B, C, D, E, F, G, H

Method Holding Times			
A.	NWTPH-DX	Total Petroleum Hydrocarbons (TPH) Diesel Range Organics	14 days for solid, unpreserved
B.	NWTPH-GX	TPH Gasoline Range Organics	14 days for solid, unpreserved
C.	SW6010D	Metals (by Optical Emission Spectrometry)	180 days for solid, unpreserved
D.	SW6020	Metals	180 days for solid, unpreserved
E.	SW7471B	Mercury (in Solids)	28 days for solid, unpreserved
F.	SW8260D	Volatile Organic Compounds	14 days for solid, preserved 14 days for solid, unpreserved
G.	SW8270E	Semivolatile Organic Compounds	14 days extraction / 40 days analysis for solid, unpreserved
H.	SW8270ESIM	Polycyclic Aromatic Hydrocarbons	14 days extraction / 40 days analysis for solid, unpreserved
I.	SW8081B	Organochlorine Pesticides	14 days extraction / 40 days analysis for solid, unpreserved
J.	SW8082A	Polychlorinated Biphenyls	1 year extraction / 40 days analysis for solid, unpreserved

1.2 CASE NARRATIVE

The laboratory report case narrative lists various additional quality control issues, such as continuing calibration verification exceedances. Since these additional quality control issues were not required for the project's DQOs, these quality control issues were not reviewed.

- 2410-140-02 and 2410-140-06: Hydrocarbons in the lube oil range are impacting the diesel range results. Results are qualified as suspect.

1.3 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.4 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Dilution of the project samples were required to bring calibration of target analytes within calibration range, matrix interference, or abundance of non-target analytes.

Sample ID	Lab ID	Analyte/Method	Dilution Factor	Issue/Explanation
HA24-TP1-15	2410-140-06	Acetone	0.7X*	The reported result exceeded the calibration range. The result was qualified J.
Note: <i>*The dilution factor reflects the amount of soil that was collected in the pre-weighed vials in relation to the method blank.</i>				

1.5 REPORTING BASIS (WET/DRY)

[Refer to Section E 1.1.](#) Soil data in these SDGs were reported on a dry weight basis. Where reported, percent moisture results were reviewed and found to be within limits.

1.6 SURROGATE RECOVERY COMPLIANCE

[Refer to Section E 1.2.](#) The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory-specified quality control limits, with the following exceptions:

Method	Sample ID	Lab ID	Surrogate	Dilution	%R	Qualification
NWTPH-Gx	HA-B-3-S-8	2409-379-17	Fluorobenzene	0.9X*	58%	J-/UJ target compounds**
Notes: *The dilution factor reflects the amount of soil that was collected in the pre-weighed vials in relation to the method blank. ** Compounds targeted by Fluorobenzene: Gasoline Range Organics.						

1.7 LABORATORY CONTROL SAMPLES

[Refer to Section E 1.3.](#) Compounds associated with the laboratory control samples/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits.

1.8 MATRIX SPIKE SAMPLES

[Refer to Section E 1.4.](#) The sample(s) below were used for matrix spike/matrix spike duplicate (MS/MSD):

Lab Sample Number	MS/MSD Sample Client ID	Method(s)
2409-379-07	HA-B-2-S-2	SW8270E, SW8270ESIM
2409-379-13	HA-B-3-S-3	SW8082A
2409-379-29	HA-B-5-S-2	SW8081B
2409-379-02	HA-B-1-S-5	SW6010D, SW6020, SW7471B
2410-140-08	HA24-TP2-10	SW8082A, SW6010D, SW6020
2410-140-16	HA24-TP5-5.0	SW8081B

The MS/MSD recoveries and the relative percent difference (RPD) between the MS and MSD results were within the specified limits.

1.9 BLANK SAMPLE ANALYSIS

[Refer to Section E 1.5.](#) Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

1.10 DUPLICATE SAMPLE ANALYSIS

[Refer to Section E 1.6.](#) The following sample(s) were used for laboratory duplicate analysis and the RPDs were all below 20 percent (or the absolute difference rule was satisfied if detects were less than five times the RL). Any exceptions are noted below and qualified.

Lab Sample Number	Laboratory Duplicate Sample Client ID	Method(s)
2409-379-01	HA-B-1-S-3	NWTPH-Gx
2409-379-02	HA-B-1-S-5	NWTPH-Gx, NWTPH-Dx, SW6010D, SW6020, SW7471B
2410-140-01	HA24-TP6-5.0	NWTPH-Gx, NWTPH-Dx
2410-140-02	HA24-TP6-10	NWTPH-Gx
2410-140-08	HA24-TP2-10	SW6010D, SW6020

Lab Sample Number	Laboratory Duplicate Sample Client ID	Method(s)/Analyte	RPD	Qualification
2409-379-02	HA-B-1-S-5	NWTPH-Dx/Lube Oil	28	J/UJ, RPD > 20%

The following sample(s) were used for field duplicate analysis. RPDs were all below 50 percent for soil (or the absolute difference rule was satisfied if detects were less than five times the RL). Any exceptions are noted below and qualified.

Primary Sample ID	Duplicate Sample ID	Method(s)
HA-B-1-S-3	HA-FD-1	NWTPH-DX, NWTPH-GX, SW6010D, SW6020, SW7471B, SW8260D, SW8270E, SW8270ESIM

Field Duplicate RPD Calculations:

Method(s): SW6020				
Analyte (mg/kg)	Primary Sample ID	Duplicate Sample ID	% RPD	Qualification
	HA-B-1-S-3	HA-FD-1		
Lead	16	5.8	94	J/UJ, RPD>50

1.11 PRECISION AND ACCURACY

[Refer to Section E 1.7.](#) Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

1.12 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable as no data was rejected. The qualifiers applied to this dataset are summarized in the table below.

Sample ID	Analyte	Reported Result	Validated Result	Reason for Qualifier
HA24-TP1-15	Acetone	0.25 E	0.25 J	Exceeds Calibration Curve
HA-B-3-S-8	Gasoline Range Organics	ND U	ND UJ	Surrogate %R outside of acceptance limits
HA-B-1-S-3	Lead	16	16 J	

Sample ID	Analyte	Reported Result	Validated Result	Reason for Qualifier
HA-FD-1	Lead	5.8	5.8 J	Field Duplicate RPD outside of acceptance limits
HA24-TP1-15	Diesel Range Organics	270	270 S	Result is suspect
HA24-TP6-10	Diesel Range Organics	110	110 S	
HA-B-1-S-3	PHC as Lube Oil	ND U	ND UJ	Lab Duplicate RPD outside of acceptance limits
HA-B-1-S-5	PHC as Lube Oil	69	69 J	
HA-B-2-S-5	PHC as Lube Oil	ND U	ND UJ	
HA-B-3-S-3	PHC as Lube Oil	ND U	ND UJ	
HA-B-3-S-8	PHC as Lube Oil	ND U	ND UJ	
HA-B-4-S-3	PHC as Lube Oil	ND U	ND UJ	
HA-B-5-S-3	PHC as Lube Oil	ND U	ND UJ	
HA-B-6-S-3	PHC as Lube Oil	ND U	ND UJ	
HA-B-6-S-6	PHC as Lube Oil	ND U	ND UJ	
HA-B-2-S-2	PHC as Lube Oil	ND U	ND UJ	
HA-B-2-S-9	PHC as Lube Oil	530	530 J	
HA-B-3-S-5	PHC as Lube Oil	ND U	ND UJ	
HA-B-4-S-1	PHC as Lube Oil	93	93 J	
HA-B-4-S-8	PHC as Lube Oil	ND U	ND UJ	
HA-B-5-S-2	PHC as Lube Oil	ND U	ND UJ	
HA-B-5-S-6	PHC as Lube Oil	ND U	ND UJ	
HA-B-6-S-5	PHC as Lube Oil	ND U	ND UJ	
HA-FD-1	PHC as Lube Oil	ND U	ND UJ	

2. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.1 Reporting Basis (Wet/Dry)
 - Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations were made to compensate for the moisture content of the soil sample.
 - Percent (%) solids should be appropriately considered when evaluating analytical results for non-aqueous samples. Sediments with high moisture content may or may not be successfully analyzed by routine analytical methods. Samples should have greater than or equal to 30 percent solids to be appropriately quantified.
- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determine the efficiency of the extraction procedure by evaluating the percent recovery (%R) of the compounds.
- E 1.3 Laboratory Control Samples
 - The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
 - Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
 - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post-digestion spike (PDS) is performed.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
 - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The relative percent difference (RPD) or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the relative percent difference (RPD) found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a

MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.

- Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%R) of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

3. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
 - EB Equipment Blank Sample
 - FB Field Blank Sample
 - FD Field Duplicate Sample
 - N Primary Sample
 - TB Trip Blank Sample
- Units:
 - $\mu\text{g/kg}$ micrograms per kilogram
 - $\mu\text{g/L}$ micrograms per liter
 - $\mu\text{g/m}^3$ micrograms per cubic meter
 - mg/kg milligrams per kilogram
 - mg/L milligrams per liter
 - ppb v/v parts per billion volume/volume
 - pCi/L picocuries per liter
 - pg/g picograms per gram
 - pg/L picograms per liter
- Matrices:
 - AA Ambient Air
 - GS Soil Gas
 - GW/WG Groundwater
 - IA Indoor Air
 - SE Sediment
 - SO Soil
 - SSV Sub-slab Vapor
 - WQ Water Quality control matrix
 - WS Surface Water
- Table Footnotes:
 - NA Not applicable
 - ND Non-detect
 - NR Not reported
- Common Symbols:
 - % percent
 - < less than
 - $\leq$ less than or equal to
 - > greater than
 - $\geq$ greater than or equal to
 - = equal
 - $^{\circ}\text{C}$ degrees Celsius
 - $\pm$ plus or minus
 - $\sim$ approximately
 - x times (multiplier)
- Fractions:
 - N Normal (method cannot be filtered)

- D Dissolved (filtered)
- T Total (unfiltered)

4. Abbreviations

%D	Percent Difference	MDL	Laboratory Method Detection Limit
%R	Percent Recovery	MS/MSD	Matrix Spike/Matrix Spike Duplicate
%RSD	Percent Relative Standard Deviation	NA	not applicable
%v/v	Percent volume by volume	ND	Non-Detect
2s	2 sigma	NFG	National Functional Guidelines
4,4-DDT	4 4-dichlorodiphenyltrichloroethane	NH ₃	Ammonia
Abs Diff	Absolute Difference	NYSDEC	New York State Department of Environmental Conservation
amu	atomic mass unit		
BPJ	Best Professional Judgement	PAH	Polycyclic Aromatic Hydrocarbon
BS	Blank Spike	PCB	Polychlorinated Biphenyl
CCB	Continuing Calibration Blank	PDS	Post-Digestion Spike
CCV	Continuing Calibration Verification	PEM	Performance Evaluation Mixture
CCVL	Continuing Calibration Verification Low	PFAS	Per- and Polyfluoroalkyl Substances
COC	Chain of Custody	PFBA	Perfluorobutanoic Acid
COM	Combined Isotope Calculation	PFD	Perfluorodecalin
Cr (VI)	Hexavalent Chromium	PFOA	Perfluorooctanoic Acid
CRI	Collision Reaction Interface	PFOS	Perfluorooctane sulfonate
DoD	Department of Defense	PFPeA	Perfluoropentanoic Acid
DQO	data quality objective	QAPP	Quality Assurance Project Plan
DUSR	Data Usability Summary Report	QC	Quality Control
EIS	Extraction Internal Standard	QSM	Quality Systems Manual
EMPC	Estimated Maximum Possible Concentration	R ²	R-squared value
		Ra-226	Radium-226
		Ra-228	Radium-228
FBK	Field Blank Contamination	RESC	Resolution Check Measure
FDP	Field Duplicate	RL	Laboratory Reporting Limit
GC	Gas Chromatograph	RPD	Relative Percent Difference
GC/MS	Gas Chromatography/Mass Spectrometry	RRF	Relative Response Factor
		RT	Retention Time
GPC	Gel Permeation Chromatography	SAP	Sampling Analysis Plan
H ₂	Hydrogen gas	SDG	Sample Delivery Group
HCl	Hydrochloric Acid	SIM	Selected ion monitoring
ICAL	Initial Calibration	SOP	Standard Operating Procedure
ICB	Initial Calibration Blank	SPE	Solid-Phase Extraction
ICP/MS	Inductively Coupled Plasma/Mass Spectrometry	SVOC	Semi-Volatile Organic Compound
		TCLP	Toxicity Characteristic Leaching Procedure
ICV	Initial Calibration Verification		
ICVL	Initial Calibration Verification Low	TIC	Tentatively Identified Compound
IPA	Isopropyl Alcohol	TKN	Total Kjeldahl Nitrogen
LC	Laboratory Control	TPH	Total Petroleum Hydrocarbon
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate	TPU	Total Propagated Uncertainty
		USEPA	U.S. Environmental Protection Agency
MBK	Method Blank Contamination	VOC	Volatile Organic Compound
MDC	Minimum Detectable Concentration	WP	Work Plan

5. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:
 - U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or “ND”.
 - B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers:
 - E The compound was quantitated above the calibration range.
 - D The concentration is based on a diluted sample analysis.
- Validation Qualifiers:
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
 - UJ The compound was not detected. The reported sample quantitation limit is approximate.
 - NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
 - R The sample results were rejected as unusable; the compound may or may not be present in the sample.
 - S Result is suspect. See DUSR for details.

References

1. United States Environmental Protection Agency, 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.
2. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.



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

October 16, 2024

Andrew Kaparos
Hart Crowser, Inc.
A Division of Haley & Aldrich, Inc.
3131 Elliott Avenue, Suite 600
Seattle, WA 98121

Re: Analytical Data for Project 0209066-000
Laboratory Reference No. 2409-379

Dear Andrew:

Enclosed are the analytical results and associated quality control data for samples submitted on September 30, 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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 16, 2024
Samples Submitted: September 30, 2024
Laboratory Reference: 2409-379
Project: 0209066-000

Case Narrative

Samples were collected on September 26 and 27, 2024 and received by the laboratory on September 30, 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.



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-1-S-3					
Laboratory ID:	09-379-01					
Gasoline	ND	5.9	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	93	62-134				
Client ID:	HA-B-1-S-5					
Laboratory ID:	09-379-02					
Gasoline	ND	5.2	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	86	62-134				
Client ID:	HA-FD-1					
Laboratory ID:	09-379-06					
Gasoline	ND	5.8	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	75	62-134				
Client ID:	HA-B-2-S-2					
Laboratory ID:	09-379-07					
Gasoline	ND	5.3	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	94	62-134				
Client ID:	HA-B-2-S-5					
Laboratory ID:	09-379-09					
Gasoline	ND	5.1	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	99	62-134				
Client ID:	HA-B-2-S-9					
Laboratory ID:	09-379-12					
Gasoline	ND	5.9	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	101	62-134				
Client ID:	HA-B-3-S-3					
Laboratory ID:	09-379-13					
Gasoline	ND	5.5	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	107	62-134				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-5					
Laboratory ID:	09-379-14					
Gasoline	ND	4.7	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	91	62-134				
Client ID:	HA-B-3-S-8					
Laboratory ID:	09-379-17					
Gasoline	ND	5.1	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	58	62-134				Q
Client ID:	HA-B-4-S-1					
Laboratory ID:	09-379-19					
Gasoline	ND	5.2	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	94	62-134				
Client ID:	HA-B-4-S-3					
Laboratory ID:	09-379-21					
Gasoline	ND	5.2	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	76	62-134				
Client ID:	HA-B-4-S-8					
Laboratory ID:	09-379-26					
Gasoline	ND	5.1	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	79	62-134				
Client ID:	HA-B-5-S-2					
Laboratory ID:	09-379-29					
Gasoline	ND	5.2	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	73	62-134				
Client ID:	HA-B-5-S-3					
Laboratory ID:	09-379-30					
Gasoline	ND	5.3	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	89	62-134				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-5-S-6					
Laboratory ID:	09-379-32					
Gasoline	ND	5.4	NWTPH-Gx	10-8-24	10-8-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	65	62-134				
Client ID:	HA-B-6-S-3					
Laboratory ID:	09-379-33					
Gasoline	ND	4.9	NWTPH-Gx	10-8-24	10-8-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	68	62-134				
Client ID:	HA-B-6-S-5					
Laboratory ID:	09-379-34					
Gasoline	ND	5.2	NWTPH-Gx	10-8-24	10-8-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	63	62-134				
Client ID:	HA-B-6-S-6					
Laboratory ID:	09-379-35					
Gasoline	ND	5.8	NWTPH-Gx	10-8-24	10-8-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	62-134				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

**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:	MB1008S2					
Gasoline	ND	5.0	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	86	62-134				
Laboratory ID:	MB1008S3					
Gasoline	ND	5.0	NWTPH-Gx	10-8-24	10-8-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	82	62-134				

Analyte	Result				Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-379-01										
	ORIG		DUP								
Gasoline	ND	ND	NA	NA	NA		NA		NA	30	
Surrogate:											
Fluorobenzene						93	89	62-134			
Laboratory ID:	09-379-02										
	ORIG		DUP								
Gasoline	ND	ND	NA	NA	NA		NA		NA	30	
Surrogate:											
Fluorobenzene						86	96	62-134			



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-1-S-3					
Laboratory ID:	09-379-01					
Diesel Range Organics	ND	28	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	55	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	73	50-150				

Client ID:	HA-B-1-S-5					
Laboratory ID:	09-379-02					
Diesel Range Organics	ND	28	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil	69	56	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				

Client ID:	HA-FD-1					
Laboratory ID:	09-379-06					
Diesel Range Organics	ND	28	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	57	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				

Client ID:	HA-B-2-S-2					
Laboratory ID:	09-379-07					
Diesel Range Organics	ND	27	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	54	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				

Client ID:	HA-B-2-S-5					
Laboratory ID:	09-379-09					
Diesel Range Organics	ND	29	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	58	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	87	50-150				

Client ID:	HA-B-2-S-9					
Laboratory ID:	09-379-12					
Diesel Range Organics	ND	29	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil	530	59	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	99	50-150				



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-3					
Laboratory ID:	09-379-13					
Diesel Range Organics	ND	28	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	55	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	79	50-150				

Client ID:	HA-B-3-S-5					
Laboratory ID:	09-379-14					
Diesel Range Organics	ND	29	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	57	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	72	50-150				

Client ID:	HA-B-3-S-8					
Laboratory ID:	09-379-17					
Diesel Range Organics	ND	29	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	58	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	73	50-150				

Client ID:	HA-B-4-S-1					
Laboratory ID:	09-379-19					
Diesel Range Organics	ND	28	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil	93	56	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				

Client ID:	HA-B-4-S-3					
Laboratory ID:	09-379-21					
Diesel Range Organics	ND	29	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	58	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	62	50-150				

Client ID:	HA-B-4-S-8					
Laboratory ID:	09-379-26					
Diesel Range Organics	ND	28	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	56	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	71	50-150				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-5-S-2					
Laboratory ID:	09-379-29					
Diesel Range Organics	ND	28	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	55	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	71	50-150				

Client ID:	HA-B-5-S-3					
Laboratory ID:	09-379-30					
Diesel Range Organics	ND	28	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	55	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	69	50-150				

Client ID:	HA-B-5-S-6					
Laboratory ID:	09-379-32					
Diesel Range Organics	ND	29	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	57	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				

Client ID:	HA-B-6-S-3					
Laboratory ID:	09-379-33					
Diesel Range Organics	ND	27	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	54	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	71	50-150				

Client ID:	HA-B-6-S-5					
Laboratory ID:	09-379-34					
Diesel Range Organics	ND	28	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	55	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	72	50-150				

Client ID:	HA-B-6-S-6					
Laboratory ID:	09-379-35					
Diesel Range Organics	ND	28	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	56	NWTPH-Dx	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	79	50-150				



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**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:	MB1009S1					
Diesel Range Organics	ND	25	NWTPH-Dx	10-9-24	10-9-24	
Lube Oil Range Organics	ND	50	NWTPH-Dx	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	78	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-379-02							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	40	
Lube Oil	62.1	46.7	NA	NA	NA	28	40	
Surrogate:								
o-Terphenyl				95	99	50-150		
Laboratory ID:	10-122-02							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	40	
Lube Oil Range	ND	ND	NA	NA	NA	NA	40	
Surrogate:								
o-Terphenyl				85	75	50-150		

SPIKE BLANK

Laboratory ID:	SB1009S1							
Diesel Fuel #2	86.3	100	NA	86	49-127	NA	NA	
Surrogate:								
o-Terphenyl				85	50-150			



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 Project: 0209066-000

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-1-S-3					
Laboratory ID:	09-379-01					
Dichlorodifluoromethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Acetone	ND	0.0088	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.011	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.0088	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0044	EPA 8260D	10-9-24	10-9-24	



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 Project: 0209066-000

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-1-S-3					
Laboratory ID:	09-379-01					
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0018	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	100	69-124				
Toluene-d8	100	80-118				
4-Bromofluorobenzene	97	75-123				



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 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-1-S-5					
Laboratory ID:	09-379-02					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Acetone	0.010	0.010	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.013	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.010	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0051	EPA 8260D	10-9-24	10-9-24	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-1-S-5					
Laboratory ID:	09-379-02					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0020	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	69-124				
Toluene-d8	99	80-118				
4-Bromofluorobenzene	99	75-123				



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-FD-1					
Laboratory ID:	09-379-06					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0057	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0057	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0057	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Acetone	ND	0.011	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.015	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0057	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0057	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0057	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.011	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0057	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0057	EPA 8260D	10-9-24	10-9-24	



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-FD-1					
Laboratory ID:	09-379-06					
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0057	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0023	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0057	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0057	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0057	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	69-124				
Toluene-d8	101	80-118				
4-Bromofluorobenzene	103	75-123				



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-2-S-2					
Laboratory ID:	09-379-07					
Dichlorodifluoromethane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Acetone	ND	0.0096	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.013	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
2-Butanone	0.0071	0.0048	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.0096	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0048	EPA 8260D	10-9-24	10-9-24	



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-2-S-2					
Laboratory ID:	09-379-07					
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0019	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	99	69-124				
Toluene-d8	102	80-118				
4-Bromofluorobenzene	100	75-123				



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-2-S-5					
Laboratory ID:	09-379-09					
Dichlorodifluoromethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Acetone	ND	0.0088	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.011	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	0.0031	0.00088	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.0088	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0044	EPA 8260D	10-9-24	10-9-24	



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-2-S-5					
Laboratory ID:	09-379-09					
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0018	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	98	69-124				
Toluene-d8	101	80-118				
4-Bromofluorobenzene	99	75-123				



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-2-S-9					
Laboratory ID:	09-379-12					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0052	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0052	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0052	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Acetone	0.036	0.010	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.014	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0052	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0052	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0052	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.010	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0052	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0052	EPA 8260D	10-9-24	10-9-24	



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-2-S-9					
Laboratory ID:	09-379-12					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0052	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0021	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0052	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0052	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0052	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	69-124				
Toluene-d8	103	80-118				
4-Bromofluorobenzene	100	75-123				



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-3					
Laboratory ID:	09-379-13					
Dichlorodifluoromethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Acetone	ND	0.0089	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.012	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.0089	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0044	EPA 8260D	10-9-24	10-9-24	



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-3					
Laboratory ID:	09-379-13					
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0018	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0044	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	99	69-124				
Toluene-d8	102	80-118				
4-Bromofluorobenzene	101	75-123				



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-5					
Laboratory ID:	09-379-14					
Dichlorodifluoromethane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0040	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0040	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0040	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Acetone	ND	0.0081	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.011	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	0.00084	0.00081	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0040	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0040	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0040	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.0081	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0040	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0040	EPA 8260D	10-9-24	10-9-24	



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-5					
Laboratory ID:	09-379-14					
(trans) 1,3-Dichloropropene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0040	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0016	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0040	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0040	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0040	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.00081	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	98	69-124				
Toluene-d8	101	80-118				
4-Bromofluorobenzene	102	75-123				



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-8					
Laboratory ID:	09-379-17					
Dichlorodifluoromethane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0028	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0028	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0028	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Acetone	0.019	0.0056	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.0073	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0028	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0028	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0028	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0028	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0028	EPA 8260D	10-9-24	10-9-24	



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-8					
Laboratory ID:	09-379-17					
(trans) 1,3-Dichloropropene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0028	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0011	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0028	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0028	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0028	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0028	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.00056	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	98	69-124				
Toluene-d8	102	80-118				
4-Bromofluorobenzene	100	75-123				



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-4-S-1					
Laboratory ID:	09-379-19					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0065	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0065	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0065	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Acetone	ND	0.013	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.017	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0065	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0065	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0065	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.013	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0065	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0065	EPA 8260D	10-9-24	10-9-24	



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-4-S-1					
Laboratory ID:	09-379-19					
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0065	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0026	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0065	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0065	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0065	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0065	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	104	69-124				
Toluene-d8	106	80-118				
4-Bromofluorobenzene	99	75-123				



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-4-S-3					
Laboratory ID:	09-379-21					
Dichlorodifluoromethane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Acetone	ND	0.0095	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.012	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.0095	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0048	EPA 8260D	10-9-24	10-9-24	



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-4-S-3					
Laboratory ID:	09-379-21					
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0019	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0048	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	100	69-124				
Toluene-d8	104	80-118				
4-Bromofluorobenzene	98	75-123				



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-4-S-8					
Laboratory ID:	09-379-26					
Dichlorodifluoromethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Acetone	0.020	0.0090	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.012	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.0090	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0045	EPA 8260D	10-9-24	10-9-24	



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-4-S-8					
Laboratory ID:	09-379-26					
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0018	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	98	69-124				
Toluene-d8	99	80-118				
4-Bromofluorobenzene	100	75-123				



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-5-S-2					
Laboratory ID:	09-379-29					
Dichlorodifluoromethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Acetone	ND	0.0090	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.012	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.0090	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0045	EPA 8260D	10-9-24	10-9-24	



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-5-S-2					
Laboratory ID:	09-379-29					
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0018	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	105	69-124				
Toluene-d8	103	80-118				
4-Bromofluorobenzene	98	75-123				



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-5-S-3					
Laboratory ID:	09-379-30					
Dichlorodifluoromethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Acetone	ND	0.0089	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.012	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.0089	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0045	EPA 8260D	10-9-24	10-9-24	



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-5-S-3					
Laboratory ID:	09-379-30					
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0018	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0045	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	103	69-124				
Toluene-d8	103	80-118				
4-Bromofluorobenzene	103	75-123				



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-5-S-6					
Laboratory ID:	09-379-32					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Acetone	0.019	0.010	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.013	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.010	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0050	EPA 8260D	10-9-24	10-9-24	



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-5-S-6					
Laboratory ID:	09-379-32					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0020	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	100	69-124				
Toluene-d8	100	80-118				
4-Bromofluorobenzene	100	75-123				



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-6-S-3					
Laboratory ID:	09-379-33					
Dichlorodifluoromethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Acetone	ND	0.0099	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.013	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.0099	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0049	EPA 8260D	10-9-24	10-9-24	



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-6-S-3					
Laboratory ID:	09-379-33					
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0020	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	106	69-124				
Toluene-d8	102	80-118				
4-Bromofluorobenzene	99	75-123				



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-6-S-5					
Laboratory ID:	09-379-34					
Dichlorodifluoromethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Acetone	0.014	0.0099	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.013	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.0099	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0049	EPA 8260D	10-9-24	10-9-24	



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-6-S-5					
Laboratory ID:	09-379-34					
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0020	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0049	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	69-124				
Toluene-d8	103	80-118				
4-Bromofluorobenzene	101	75-123				



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		HA-B-6-S-6				
Laboratory ID:		09-379-35				
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Acetone	0.047	0.010	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.013	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.010	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0051	EPA 8260D	10-9-24	10-9-24	



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-6-S-6					
Laboratory ID:	09-379-35					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0020	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0051	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	104	69-124				
Toluene-d8	103	80-118				
4-Bromofluorobenzene	101	75-123				



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1009S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Chloromethane	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Vinyl Chloride	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromomethane	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Chloroethane	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Acetone	ND	0.010	EPA 8260D	10-9-24	10-9-24	
Iodomethane	ND	0.013	EPA 8260D	10-9-24	10-9-24	
Carbon Disulfide	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Methylene Chloride	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Vinyl Acetate	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Butanone	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Bromochloromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Chloroform	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Benzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Trichloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Dibromomethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromodichloromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Chloroethyl Vinyl Ether	ND	0.010	EPA 8260D	10-9-24	10-9-24	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Toluene	ND	0.0050	EPA 8260D	10-9-24	10-9-24	



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1009S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Hexanone	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Dibromochloromethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Chlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Ethylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
m,p-Xylene	ND	0.0020	EPA 8260D	10-9-24	10-9-24	
o-Xylene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Styrene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromoform	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Isopropylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Bromobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
n-Propylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
2-Chlorotoluene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
4-Chlorotoluene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
tert-Butylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
sec-Butylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
n-Butylbenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
Naphthalene	ND	0.0050	EPA 8260D	10-9-24	10-9-24	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>69-124</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-118</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>75-123</i>				



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent		Recovery		RPD	
					Recovery		Limits		RPD	Limit
SPIKE BLANKS										
Laboratory ID:	SB1009S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	0.0599	0.0578	0.0500	0.0500	120	116	24-162	4	24	
Chloromethane	0.0548	0.0560	0.0500	0.0500	110	112	41-143	2	22	
Vinyl Chloride	0.0566	0.0573	0.0500	0.0500	113	115	52-141	1	20	
Bromomethane	0.0462	0.0461	0.0500	0.0500	92	92	37-145	0	23	
Chloroethane	0.0612	0.0599	0.0500	0.0500	122	120	54-148	2	19	
Trichlorofluoromethane	0.0527	0.0549	0.0500	0.0500	105	110	65-142	4	18	
1,1-Dichloroethene	0.0556	0.0571	0.0500	0.0500	111	114	74-133	3	16	
Acetone	0.0458	0.0533	0.0500	0.0500	92	107	50-159	15	38	
Iodomethane	0.0377	0.0362	0.0500	0.0500	75	72	36-133	4	31	
Carbon Disulfide	0.0454	0.0409	0.0500	0.0500	91	82	37-138	10	27	
Methylene Chloride	0.0509	0.0539	0.0500	0.0500	102	108	60-135	6	23	
(trans) 1,2-Dichloroethene	0.0523	0.0556	0.0500	0.0500	105	111	74-131	6	15	
Methyl t-Butyl Ether	0.0507	0.0538	0.0500	0.0500	101	108	76-129	6	15	
1,1-Dichloroethane	0.0518	0.0520	0.0500	0.0500	104	104	74-130	0	15	
Vinyl Acetate	0.0455	0.0491	0.0500	0.0500	91	98	58-146	8	21	
2,2-Dichloropropane	0.0532	0.0539	0.0500	0.0500	106	108	74-137	1	16	
(cis) 1,2-Dichloroethene	0.0537	0.0548	0.0500	0.0500	107	110	71-136	2	15	
2-Butanone	0.0428	0.0518	0.0500	0.0500	86	104	58-144	19	32	
Bromochloromethane	0.0502	0.0514	0.0500	0.0500	100	103	78-128	2	15	
Chloroform	0.0533	0.0557	0.0500	0.0500	107	111	75-128	4	15	
1,1,1-Trichloroethane	0.0498	0.0516	0.0500	0.0500	100	103	73-129	4	15	
Carbon Tetrachloride	0.0518	0.0546	0.0500	0.0500	104	109	69-134	5	15	
1,1-Dichloropropene	0.0525	0.0536	0.0500	0.0500	105	107	73-127	2	15	
Benzene	0.0530	0.0531	0.0500	0.0500	106	106	75-126	0	15	
1,2-Dichloroethane	0.0520	0.0551	0.0500	0.0500	104	110	70-133	6	15	
Trichloroethene	0.0519	0.0518	0.0500	0.0500	104	104	80-130	0	15	
1,2-Dichloropropane	0.0521	0.0517	0.0500	0.0500	104	103	78-131	1	16	
Dibromomethane	0.0506	0.0516	0.0500	0.0500	101	103	72-136	2	28	
Bromodichloromethane	0.0542	0.0564	0.0500	0.0500	108	113	80-129	4	15	
(cis) 1,3-Dichloropropene	0.0563	0.0573	0.0500	0.0500	113	115	80-132	2	17	
Methyl Isobutyl Ketone	0.0462	0.0510	0.0500	0.0500	92	102	62-146	10	22	
Toluene	0.0507	0.0509	0.0500	0.0500	101	102	78-124	0	17	
(trans) 1,3-Dichloropropene	0.0497	0.0496	0.0500	0.0500	99	99	80-130	0	15	



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

page 2 of 2

Analyte	Result		Spike Level		Percent		Recovery		RPD	
					Recovery		Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1009S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	0.0515	0.0541	0.0500	0.0500	103	108	80-123	5	15	
Tetrachloroethene	0.0536	0.0537	0.0500	0.0500	107	107	80-130	0	15	
1,3-Dichloropropane	0.0527	0.0544	0.0500	0.0500	105	109	80-122	3	15	
2-Hexanone	0.0460	0.0510	0.0500	0.0500	92	102	61-143	10	30	
Dibromochloromethane	0.0490	0.0499	0.0500	0.0500	98	100	80-129	2	15	
1,2-Dibromoethane	0.0541	0.0548	0.0500	0.0500	108	110	80-125	1	15	
Chlorobenzene	0.0510	0.0513	0.0500	0.0500	102	103	80-119	1	15	
1,1,1,2-Tetrachloroethane	0.0506	0.0490	0.0500	0.0500	101	98	80-124	3	15	
Ethylbenzene	0.0528	0.0528	0.0500	0.0500	106	106	80-120	0	15	
m,p-Xylene	0.1080	0.1070	0.100	0.100	108	107	80-121	1	15	
o-Xylene	0.0534	0.0542	0.0500	0.0500	107	108	80-120	1	15	
Styrene	0.0546	0.0555	0.0500	0.0500	109	111	80-130	2	15	
Bromoform	0.0467	0.0486	0.0500	0.0500	93	97	79-132	4	15	
Isopropylbenzene	0.0540	0.0552	0.0500	0.0500	108	110	80-126	2	15	
Bromobenzene	0.0511	0.0512	0.0500	0.0500	102	102	80-124	0	15	
1,1,2,2-Tetrachloroethane	0.0511	0.0520	0.0500	0.0500	102	104	75-128	2	19	
1,2,3-Trichloropropane	0.0524	0.0545	0.0500	0.0500	105	109	74-128	4	19	
n-Propylbenzene	0.0534	0.0533	0.0500	0.0500	107	107	80-128	0	16	
2-Chlorotoluene	0.0518	0.0536	0.0500	0.0500	104	107	80-126	3	15	
4-Chlorotoluene	0.0527	0.0531	0.0500	0.0500	105	106	80-129	1	15	
1,3,5-Trimethylbenzene	0.0536	0.0541	0.0500	0.0500	107	108	80-129	1	15	
tert-Butylbenzene	0.0527	0.0537	0.0500	0.0500	105	107	80-129	2	15	
1,2,4-Trimethylbenzene	0.0516	0.0517	0.0500	0.0500	103	103	80-127	0	15	
sec-Butylbenzene	0.0540	0.0540	0.0500	0.0500	108	108	77-134	0	16	
1,3-Dichlorobenzene	0.0541	0.0538	0.0500	0.0500	108	108	80-125	1	15	
p-Isopropyltoluene	0.0550	0.0537	0.0500	0.0500	110	107	80-133	2	15	
1,4-Dichlorobenzene	0.0497	0.0501	0.0500	0.0500	99	100	78-127	1	15	
1,2-Dichlorobenzene	0.0510	0.0516	0.0500	0.0500	102	103	79-127	1	15	
n-Butylbenzene	0.0555	0.0554	0.0500	0.0500	111	111	80-136	0	17	
1,2-Dibromo-3-chloropropane	0.0452	0.0521	0.0500	0.0500	90	104	68-143	14	26	
1,2,4-Trichlorobenzene	0.0534	0.0537	0.0500	0.0500	107	107	77-142	1	19	
Hexachlorobutadiene	0.0545	0.0510	0.0500	0.0500	109	102	73-135	7	19	
Naphthalene	0.0513	0.0542	0.0500	0.0500	103	108	72-142	5	21	
1,2,3-Trichlorobenzene	0.0535	0.0524	0.0500	0.0500	107	105	77-139	2	19	
Surrogate:										
Dibromofluoromethane					98	104	69-124			
Toluene-d8					98	101	80-118			
4-Bromofluorobenzene					102	104	75-123			



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-1-S-3					
Laboratory ID:	09-379-01					
n-Nitrosodimethylamine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.37	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.18	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.054	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.046	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Naphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
4-Chloroaniline	ND	0.25	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
1-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Hexachlorocyclopentadiene	ND	0.18	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
3-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-1-S-3					
Laboratory ID:	09-379-01					
2,4-Dinitrophenol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
4-Nitrophenol	ND	0.050	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Fluorene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.29	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Carbazole	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Pyrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Butylbenzylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Chrysene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Benzo(j,k)fluoranthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Benzo[a]pyrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Indeno[1,2,3-cd]pyrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Benzo[g,h,i]perylene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	40	22 - 111				
Phenol-d6	46	25 - 117				
Nitrobenzene-d5	42	26 - 111				
2-Fluorobiphenyl	57	32 - 111				
2,4,6-Tribromophenol	85	26 - 130				
Terphenyl-d14	85	33 - 118				



Date of Report: October 16, 2024
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 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-1-S-5					
Laboratory ID:	09-379-02					
n-Nitrosodimethylamine	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.74	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.37	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.37	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.074	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.11	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.074	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.094	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Naphthalene	0.037	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
4-Chloroaniline	ND	0.51	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	0.035	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
1-Methylnaphthalene	0.028	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Hexachlorocyclopentadiene	ND	0.37	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.074	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.074	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	0.0094	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
3-Nitroaniline	ND	0.074	EPA 8270E	10-9-24	10-9-24	



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 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-1-S-5					
Laboratory ID:	09-379-02					
2,4-Dinitrophenol	ND	0.37	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	0.035	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
4-Nitrophenol	ND	0.10	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.37	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.074	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Fluorene	0.041	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
4,6-Dinitro-2-methylphenol	ND	0.37	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.074	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.074	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.59	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	0.26	0.074	EPA 8270E	10-9-24	10-9-24	
Anthracene	0.079	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Carbazole	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.37	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	0.19	0.074	EPA 8270E	10-9-24	10-9-24	
Pyrene	0.23	0.074	EPA 8270E	10-9-24	10-9-24	
Butylbenzylphthalate	ND	0.37	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.37	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.37	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	0.075	0.074	EPA 8270E	10-9-24	10-9-24	
Chrysene	0.075	0.074	EPA 8270E	10-9-24	10-9-24	
bis(2-Ethylhexyl)phthalate	ND	0.37	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.37	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	0.12	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Benzo(j,k)fluoranthene	0.029	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Benzo[a]pyrene	0.081	0.074	EPA 8270E	10-9-24	10-9-24	
Indeno[1,2,3-cd]pyrene	0.076	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Dibenz[a,h]anthracene	0.0088	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Benzo[g,h,i]perylene	0.077	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	56	22 - 111				
Phenol-d6	68	25 - 117				
Nitrobenzene-d5	64	26 - 111				
2-Fluorobiphenyl	86	32 - 111				
2,4,6-Tribromophenol	97	26 - 130				
Terphenyl-d14	85	33 - 118				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-FD-1					
Laboratory ID:	09-379-06					
n-Nitrosodimethylamine	ND	0.075	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.75	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.075	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.38	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.075	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.075	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.075	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.075	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.38	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.075	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.075	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.11	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.075	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.075	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.075	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.095	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.075	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.075	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.075	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.075	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.075	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.075	EPA 8270E	10-9-24	10-9-24	
Naphthalene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
4-Chloroaniline	ND	0.52	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.075	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.075	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
1-Methylnaphthalene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
Hexachlorocyclopentadiene	ND	0.38	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.075	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.075	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.075	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.075	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.075	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.075	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.075	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.075	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.075	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.075	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
3-Nitroaniline	ND	0.075	EPA 8270E	10-9-24	10-9-24	



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-FD-1					
Laboratory ID:	09-379-06					
2,4-Dinitrophenol	ND	0.38	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
4-Nitrophenol	ND	0.10	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.075	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.075	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.075	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.075	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.38	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.075	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.075	EPA 8270E	10-9-24	10-9-24	
Fluorene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
4,6-Dinitro-2-methylphenol	ND	0.38	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.075	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.075	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.075	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.075	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.60	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
Anthracene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
Carbazole	ND	0.075	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.38	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
Pyrene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
Butylbenzylphthalate	ND	0.38	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.38	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.38	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
Chrysene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
bis(2-Ethylhexyl)phthalate	ND	0.38	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.38	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo(j,k)fluoranthene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[a]pyrene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
Indeno[1,2,3-cd]pyrene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
Dibenz[a,h]anthracene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[g,h,i]perylene	ND	0.0075	EPA 8270E/SIM	10-9-24	10-10-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	51	22 - 111				
Phenol-d6	64	25 - 117				
Nitrobenzene-d5	58	26 - 111				
2-Fluorobiphenyl	81	32 - 111				
2,4,6-Tribromophenol	91	26 - 130				
Terphenyl-d14	89	33 - 118				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-2-S-2					
Laboratory ID:	09-379-07					
n-Nitrosodimethylamine	ND	0.036	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.36	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.036	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.18	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.036	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.036	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.036	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.036	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.036	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.036	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.053	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.036	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.036	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.036	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.046	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.036	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.036	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.036	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.036	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.036	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.036	EPA 8270E	10-9-24	10-9-24	
Naphthalene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
4-Chloroaniline	ND	0.25	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.036	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.036	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
1-Methylnaphthalene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
Hexachlorocyclopentadiene	ND	0.18	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.036	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.036	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.036	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.036	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.036	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.036	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.036	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.036	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.036	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.036	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
3-Nitroaniline	ND	0.036	EPA 8270E	10-9-24	10-9-24	



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-2-S-2					
Laboratory ID:	09-379-07					
2,4-Dinitrophenol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
4-Nitrophenol	ND	0.049	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.036	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.036	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.036	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.036	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.036	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.036	EPA 8270E	10-9-24	10-9-24	
Fluorene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.036	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.036	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.036	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.036	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.29	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
Anthracene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
Carbazole	ND	0.036	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
Pyrene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
Butylbenzylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
Chrysene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[a]pyrene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
Indeno[1,2,3-cd]pyrene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270E/SIM	10-9-24	10-10-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	57	22 - 111				
Phenol-d6	63	25 - 117				
Nitrobenzene-d5	55	26 - 111				
2-Fluorobiphenyl	72	32 - 111				
2,4,6-Tribromophenol	81	26 - 130				
Terphenyl-d14	75	33 - 118				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-2-S-5					
Laboratory ID:	09-379-09					
n-Nitrosodimethylamine	ND	0.077	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.77	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.077	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.38	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.077	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.077	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.077	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.077	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.38	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.077	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.077	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.11	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.077	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.077	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.077	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.097	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.077	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.077	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.077	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.077	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.077	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.077	EPA 8270E	10-9-24	10-9-24	
Naphthalene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
4-Chloroaniline	ND	0.53	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.077	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.077	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
1-Methylnaphthalene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Hexachlorocyclopentadiene	ND	0.38	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.077	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.077	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.077	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.077	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.077	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.077	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.077	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.077	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.077	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.077	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	0.016	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
3-Nitroaniline	ND	0.077	EPA 8270E	10-9-24	10-9-24	



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-2-S-5					
Laboratory ID:	09-379-09					
2,4-Dinitrophenol	ND	0.38	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
4-Nitrophenol	ND	0.10	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.077	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.077	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.077	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.077	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.38	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.077	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.077	EPA 8270E	10-9-24	10-9-24	
Fluorene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
4,6-Dinitro-2-methylphenol	ND	0.38	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.077	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.077	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.077	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.077	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.61	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	0.017	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Anthracene	0.011	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Carbazole	ND	0.077	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.38	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	0.017	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Pyrene	0.025	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Butylbenzylphthalate	ND	0.38	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.38	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.38	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	0.013	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Chrysene	0.015	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
bis(2-Ethylhexyl)phthalate	ND	0.38	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.38	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	0.034	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo(j,k)fluoranthene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[a]pyrene	0.039	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Indeno[1,2,3-cd]pyrene	0.036	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Dibenz[a,h]anthracene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[g,h,i]perylene	0.036	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	47	22 - 111				
Phenol-d6	56	25 - 117				
Nitrobenzene-d5	56	26 - 111				
2-Fluorobiphenyl	72	32 - 111				
2,4,6-Tribromophenol	86	26 - 130				
Terphenyl-d14	80	33 - 118				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-2-S-9					
Laboratory ID:	09-379-12					
n-Nitrosodimethylamine	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.39	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.25	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.20	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.039	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.039	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.039	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Naphthalene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
4-Chloroaniline	ND	0.20	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
1-Methylnaphthalene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Hexachlorocyclopentadiene	ND	0.20	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
3-Nitroaniline	ND	0.039	EPA 8270E	10-9-24	10-9-24	



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-2-S-9					
Laboratory ID:	09-379-12					
2,4-Dinitrophenol	ND	0.20	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
4-Nitrophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.20	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.039	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Fluorene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.039	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.20	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Anthracene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Carbazole	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.20	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Pyrene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Butylbenzylphthalate	ND	0.20	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.20	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.20	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Chrysene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
bis(2-Ethylhexyl)phthalate	ND	0.20	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.20	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo(j,k)fluoranthene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[a]pyrene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Indeno[1,2,3-cd]pyrene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Dibenz[a,h]anthracene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[g,h,i]perylene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	77	22 - 111				
Phenol-d6	78	25 - 117				
Nitrobenzene-d5	79	26 - 111				
2-Fluorobiphenyl	76	32 - 111				
2,4,6-Tribromophenol	93	26 - 130				
Terphenyl-d14	85	33 - 118				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-3					
Laboratory ID:	09-379-13					
n-Nitrosodimethylamine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.37	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.18	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.054	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.046	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Naphthalene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
4-Chloroaniline	ND	0.25	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
1-Methylnaphthalene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Hexachlorocyclopentadiene	ND	0.18	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
3-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-3					
Laboratory ID:	09-379-13					
2,4-Dinitrophenol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
4-Nitrophenol	ND	0.049	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Fluorene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.29	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Anthracene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Carbazole	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	0.0087	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Pyrene	0.0097	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Butylbenzylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Chrysene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[a]pyrene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Indeno[1,2,3-cd]pyrene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	62	22 - 111				
Phenol-d6	70	25 - 117				
Nitrobenzene-d5	63	26 - 111				
2-Fluorobiphenyl	80	32 - 111				
2,4,6-Tribromophenol	92	26 - 130				
Terphenyl-d14	90	33 - 118				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-5					
Laboratory ID:	09-379-14					
n-Nitrosodimethylamine	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.38	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.24	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.038	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.038	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.038	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Naphthalene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
4-Chloroaniline	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
1-Methylnaphthalene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Hexachlorocyclopentadiene	ND	0.19	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.038	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.038	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
3-Nitroaniline	ND	0.038	EPA 8270E	10-9-24	10-9-24	



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-5					
Laboratory ID:	09-379-14					
2,4-Dinitrophenol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
4-Nitrophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.038	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Fluorene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.038	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.038	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Anthracene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Carbazole	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Pyrene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Butylbenzylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Chrysene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo(j,k)fluoranthene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[a]pyrene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Indeno[1,2,3-cd]pyrene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Dibenz[a,h]anthracene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[g,h,i]perylene	ND	0.0077	EPA 8270E/SIM	10-9-24	10-10-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	83	22 - 111				
Phenol-d6	86	25 - 117				
Nitrobenzene-d5	87	26 - 111				
2-Fluorobiphenyl	81	32 - 111				
2,4,6-Tribromophenol	86	26 - 130				
Terphenyl-d14	83	33 - 118				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-8					
Laboratory ID:	09-379-17					
n-Nitrosodimethylamine	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.39	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.25	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.039	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.039	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.039	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Naphthalene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
4-Chloroaniline	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
1-Methylnaphthalene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Hexachlorocyclopentadiene	ND	0.19	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
3-Nitroaniline	ND	0.039	EPA 8270E	10-9-24	10-9-24	



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-8					
Laboratory ID:	09-379-17					
2,4-Dinitrophenol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
4-Nitrophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.039	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Fluorene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.039	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Anthracene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Carbazole	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Pyrene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Butylbenzylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Chrysene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo(j,k)fluoranthene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[a]pyrene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Indeno[1,2,3-cd]pyrene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Dibenz[a,h]anthracene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[g,h,i]perylene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-10-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	82	22 - 111				
Phenol-d6	86	25 - 117				
Nitrobenzene-d5	87	26 - 111				
2-Fluorobiphenyl	84	32 - 111				
2,4,6-Tribromophenol	94	26 - 130				
Terphenyl-d14	90	33 - 118				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-4-S-1					
Laboratory ID:	09-379-19					
n-Nitrosodimethylamine	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.74	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.37	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.37	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.074	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.11	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.074	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.093	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Naphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
4-Chloroaniline	ND	0.51	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
1-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Hexachlorocyclopentadiene	ND	0.37	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.074	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.074	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
3-Nitroaniline	ND	0.074	EPA 8270E	10-9-24	10-9-24	



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-4-S-1					
Laboratory ID:	09-379-19					
2,4-Dinitrophenol	ND	0.37	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
4-Nitrophenol	ND	0.10	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.37	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.074	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Fluorene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
4,6-Dinitro-2-methylphenol	ND	0.37	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.074	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.074	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.59	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Carbazole	ND	0.074	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.37	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Pyrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Butylbenzylphthalate	ND	0.37	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.37	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.37	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Chrysene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
bis(2-Ethylhexyl)phthalate	ND	0.37	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.37	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Benzo(j,k)fluoranthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Benzo[a]pyrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Indeno[1,2,3-cd]pyrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Benzo[g,h,i]perylene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	56	22 - 111				
Phenol-d6	65	25 - 117				
Nitrobenzene-d5	58	26 - 111				
2-Fluorobiphenyl	74	32 - 111				
2,4,6-Tribromophenol	81	26 - 130				
Terphenyl-d14	75	33 - 118				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-4-S-3					
Laboratory ID:	09-379-21					
n-Nitrosodimethylamine	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.39	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.25	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.039	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.039	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.039	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Naphthalene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
4-Chloroaniline	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
1-Methylnaphthalene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
Hexachlorocyclopentadiene	ND	0.19	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
3-Nitroaniline	ND	0.039	EPA 8270E	10-9-24	10-9-24	



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-4-S-3					
Laboratory ID:	09-379-21					
2,4-Dinitrophenol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
4-Nitrophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.039	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Fluorene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.039	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.039	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
Anthracene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
Carbazole	ND	0.039	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
Pyrene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
Butylbenzylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
Chrysene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
Benzo(j,k)fluoranthene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
Benzo[a]pyrene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
Indeno[1,2,3-cd]pyrene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
Dibenz[a,h]anthracene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
Benzo[g,h,i]perylene	ND	0.0078	EPA 8270E/SIM	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	70	22 - 111				
Phenol-d6	75	25 - 117				
Nitrobenzene-d5	72	26 - 111				
2-Fluorobiphenyl	71	32 - 111				
2,4,6-Tribromophenol	80	26 - 130				
Terphenyl-d14	76	33 - 118				



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-4-S-8					
Laboratory ID:	09-379-26					
n-Nitrosodimethylamine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.37	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.23	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Naphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
4-Chloroaniline	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
1-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Hexachlorocyclopentadiene	ND	0.19	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
3-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	



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This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-4-S-8					
Laboratory ID:	09-379-26					
2,4-Dinitrophenol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
4-Nitrophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Fluorene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Carbazole	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Pyrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Butylbenzylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Chrysene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo(j,k)fluoranthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[a]pyrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Indeno[1,2,3-cd]pyrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[g,h,i]perylene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	97	22 - 111				
Phenol-d6	102	25 - 117				
Nitrobenzene-d5	103	26 - 111				
2-Fluorobiphenyl	96	32 - 111				
2,4,6-Tribromophenol	104	26 - 130				
Terphenyl-d14	96	33 - 118				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-5-S-2					
Laboratory ID:	09-379-29					
n-Nitrosodimethylamine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.37	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.23	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Naphthalene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
4-Chloroaniline	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
1-Methylnaphthalene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Hexachlorocyclopentadiene	ND	0.18	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
3-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-5-S-2					
Laboratory ID:	09-379-29					
2,4-Dinitrophenol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
4-Nitrophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Fluorene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Anthracene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Carbazole	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Pyrene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Butylbenzylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Chrysene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[a]pyrene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Indeno[1,2,3-cd]pyrene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	68	22 - 111				
Phenol-d6	87	25 - 117				
Nitrobenzene-d5	91	26 - 111				
2-Fluorobiphenyl	87	32 - 111				
2,4,6-Tribromophenol	59	26 - 130				
Terphenyl-d14	91	33 - 118				



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-5-S-3					
Laboratory ID:	09-379-30					
n-Nitrosodimethylamine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.37	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.23	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Naphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
4-Chloroaniline	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
1-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Hexachlorocyclopentadiene	ND	0.18	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
3-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-5-S-3					
Laboratory ID:	09-379-30					
2,4-Dinitrophenol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
4-Nitrophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Fluorene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Carbazole	ND	0.037	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Pyrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Butylbenzylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Chrysene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.18	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo(j,k)fluoranthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[a]pyrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Indeno[1,2,3-cd]pyrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[g,h,i]perylene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	73	22 - 111				
Phenol-d6	77	25 - 117				
Nitrobenzene-d5	78	26 - 111				
2-Fluorobiphenyl	76	32 - 111				
2,4,6-Tribromophenol	85	26 - 130				
Terphenyl-d14	78	33 - 118				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-5-S-6					
Laboratory ID:	09-379-32					
n-Nitrosodimethylamine	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.38	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.24	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.038	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.038	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.038	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Naphthalene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
4-Chloroaniline	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
1-Methylnaphthalene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
Hexachlorocyclopentadiene	ND	0.19	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.038	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.038	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
3-Nitroaniline	ND	0.038	EPA 8270E	10-9-24	10-9-24	



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-5-S-6					
Laboratory ID:	09-379-32					
2,4-Dinitrophenol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
4-Nitrophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.038	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Fluorene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.038	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.038	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
Anthracene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
Carbazole	ND	0.038	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
Pyrene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
Butylbenzylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
Chrysene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.19	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo(j,k)fluoranthene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[a]pyrene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
Indeno[1,2,3-cd]pyrene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
Dibenz[a,h]anthracene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[g,h,i]perylene	ND	0.0076	EPA 8270E/SIM	10-9-24	10-10-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	67	22 - 111				
Phenol-d6	71	25 - 117				
Nitrobenzene-d5	72	26 - 111				
2-Fluorobiphenyl	71	32 - 111				
2,4,6-Tribromophenol	85	26 - 130				
Terphenyl-d14	81	33 - 118				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-6-S-3					
Laboratory ID:	09-379-33					
n-Nitrosodimethylamine	ND	0.073	EPA 8270E	10-9-24	10-10-24	
Pyridine	ND	0.73	EPA 8270E	10-9-24	10-10-24	
Phenol	ND	0.073	EPA 8270E	10-9-24	10-10-24	
Aniline	ND	0.36	EPA 8270E	10-9-24	10-10-24	
bis(2-Chloroethyl)ether	ND	0.073	EPA 8270E	10-9-24	10-10-24	
2-Chlorophenol	ND	0.073	EPA 8270E	10-9-24	10-10-24	
1,3-Dichlorobenzene	ND	0.073	EPA 8270E	10-9-24	10-10-24	
1,4-Dichlorobenzene	ND	0.073	EPA 8270E	10-9-24	10-10-24	
Benzyl alcohol	ND	0.36	EPA 8270E	10-9-24	10-10-24	
1,2-Dichlorobenzene	ND	0.073	EPA 8270E	10-9-24	10-10-24	
2-Methylphenol (o-Cresol)	ND	0.073	EPA 8270E	10-9-24	10-10-24	
bis(2-Chloroisopropyl)ether	ND	0.073	EPA 8270E	10-9-24	10-10-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.073	EPA 8270E	10-9-24	10-10-24	
n-Nitroso-di-n-propylamine	ND	0.073	EPA 8270E	10-9-24	10-10-24	
Hexachloroethane	ND	0.073	EPA 8270E	10-9-24	10-10-24	
Nitrobenzene	ND	0.073	EPA 8270E	10-9-24	10-10-24	
Isophorone	ND	0.073	EPA 8270E	10-9-24	10-10-24	
2-Nitrophenol	ND	0.073	EPA 8270E	10-9-24	10-10-24	
2,4-Dimethylphenol	ND	0.073	EPA 8270E	10-9-24	10-10-24	
bis(2-Chloroethoxy)methane	ND	0.073	EPA 8270E	10-9-24	10-10-24	
2,4-Dichlorophenol	ND	0.073	EPA 8270E	10-9-24	10-10-24	
1,2,4-Trichlorobenzene	ND	0.073	EPA 8270E	10-9-24	10-10-24	
Naphthalene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
4-Chloroaniline	ND	0.36	EPA 8270E	10-9-24	10-10-24	
Hexachlorobutadiene	ND	0.073	EPA 8270E	10-9-24	10-10-24	
4-Chloro-3-methylphenol	ND	0.073	EPA 8270E	10-9-24	10-10-24	
2-Methylnaphthalene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
1-Methylnaphthalene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Hexachlorocyclopentadiene	ND	0.48	EPA 8270E	10-9-24	10-10-24	
2,4,6-Trichlorophenol	ND	0.073	EPA 8270E	10-9-24	10-10-24	
2,3-Dichloroaniline	ND	0.073	EPA 8270E	10-9-24	10-10-24	
2,4,5-Trichlorophenol	ND	0.073	EPA 8270E	10-9-24	10-10-24	
2-Chloronaphthalene	ND	0.073	EPA 8270E	10-9-24	10-10-24	
2-Nitroaniline	ND	0.073	EPA 8270E	10-9-24	10-10-24	
1,4-Dinitrobenzene	ND	0.073	EPA 8270E	10-9-24	10-10-24	
Dimethylphthalate	ND	0.073	EPA 8270E	10-9-24	10-10-24	
1,3-Dinitrobenzene	ND	0.073	EPA 8270E	10-9-24	10-10-24	
2,6-Dinitrotoluene	ND	0.073	EPA 8270E	10-9-24	10-10-24	
1,2-Dinitrobenzene	ND	0.073	EPA 8270E	10-9-24	10-10-24	
Acenaphthylene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
3-Nitroaniline	ND	0.073	EPA 8270E	10-9-24	10-10-24	



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-6-S-3					
Laboratory ID:	09-379-33					
2,4-Dinitrophenol	ND	0.36	EPA 8270E	10-9-24	10-10-24	
Acenaphthene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
4-Nitrophenol	ND	0.073	EPA 8270E	10-9-24	10-10-24	
2,4-Dinitrotoluene	ND	0.073	EPA 8270E	10-9-24	10-10-24	
Dibenzofuran	ND	0.073	EPA 8270E	10-9-24	10-10-24	
2,3,5,6-Tetrachlorophenol	ND	0.073	EPA 8270E	10-9-24	10-10-24	
2,3,4,6-Tetrachlorophenol	ND	0.073	EPA 8270E	10-9-24	10-10-24	
Diethylphthalate	ND	0.36	EPA 8270E	10-9-24	10-10-24	
4-Chlorophenyl-phenylether	ND	0.073	EPA 8270E	10-9-24	10-10-24	
4-Nitroaniline	ND	0.073	EPA 8270E	10-9-24	10-10-24	
Fluorene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
4,6-Dinitro-2-methylphenol	ND	0.36	EPA 8270E	10-9-24	10-10-24	
n-Nitrosodiphenylamine	ND	0.073	EPA 8270E	10-9-24	10-10-24	
1,2-Diphenylhydrazine	ND	0.073	EPA 8270E	10-9-24	10-10-24	
4-Bromophenyl-phenylether	ND	0.073	EPA 8270E	10-9-24	10-10-24	
Hexachlorobenzene	ND	0.073	EPA 8270E	10-9-24	10-10-24	
Pentachlorophenol	ND	0.36	EPA 8270E	10-9-24	10-10-24	
Phenanthrene	0.028	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Anthracene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Carbazole	ND	0.073	EPA 8270E	10-9-24	10-10-24	
Di-n-butylphthalate	ND	0.36	EPA 8270E	10-9-24	10-10-24	
Fluoranthene	0.066	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Pyrene	0.058	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Butylbenzylphthalate	ND	0.36	EPA 8270E	10-9-24	10-10-24	
bis-2-Ethylhexyladipate	ND	0.36	EPA 8270E	10-9-24	10-10-24	
3,3'-Dichlorobenzidine	ND	0.36	EPA 8270E	10-9-24	10-10-24	
Benzo[a]anthracene	0.037	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Chrysene	0.035	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
bis(2-Ethylhexyl)phthalate	ND	0.36	EPA 8270E	10-9-24	10-10-24	
Di-n-octylphthalate	ND	0.36	EPA 8270E	10-9-24	10-10-24	
Benzo[b]fluoranthene	0.030	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo(j,k)fluoranthene	0.012	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[a]pyrene	0.024	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Indeno[1,2,3-cd]pyrene	0.014	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[g,h,i]perylene	0.012	0.0073	EPA 8270E/SIM	10-9-24	10-10-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	63	22 - 111				
Phenol-d6	70	25 - 117				
Nitrobenzene-d5	70	26 - 111				
2-Fluorobiphenyl	71	32 - 111				
2,4,6-Tribromophenol	78	26 - 130				
Terphenyl-d14	77	33 - 118				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-6-S-5					
Laboratory ID:	09-379-34					
n-Nitrosodimethylamine	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Pyridine	ND	0.37	EPA 8270E	10-9-24	10-10-24	
Phenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Aniline	ND	0.18	EPA 8270E	10-9-24	10-10-24	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2-Chlorophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
1,3-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
1,4-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Benzyl alcohol	ND	0.18	EPA 8270E	10-9-24	10-10-24	
1,2-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270E	10-9-24	10-10-24	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270E	10-9-24	10-10-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270E	10-9-24	10-10-24	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Hexachloroethane	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Nitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Isophorone	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2-Nitrophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,4-Dimethylphenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,4-Dichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Naphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
4-Chloroaniline	ND	0.18	EPA 8270E	10-9-24	10-10-24	
Hexachlorobutadiene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
1-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Hexachlorocyclopentadiene	ND	0.24	EPA 8270E	10-9-24	10-10-24	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,3-Dichloroaniline	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2-Chloronaphthalene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-10-24	
1,4-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Dimethylphthalate	ND	0.037	EPA 8270E	10-9-24	10-10-24	
1,3-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,6-Dinitrotoluene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
1,2-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Acenaphthylene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
3-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-10-24	



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-6-S-5					
Laboratory ID:	09-379-34					
2,4-Dinitrophenol	ND	0.18	EPA 8270E	10-9-24	10-10-24	
Acenaphthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
4-Nitrophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,4-Dinitrotoluene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Dibenzofuran	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Diethylphthalate	ND	0.18	EPA 8270E	10-9-24	10-10-24	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270E	10-9-24	10-10-24	
4-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Fluorene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270E	10-9-24	10-10-24	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270E	10-9-24	10-10-24	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270E	10-9-24	10-10-24	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Hexachlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Pentachlorophenol	ND	0.18	EPA 8270E	10-9-24	10-10-24	
Phenanthrene	0.041	0.037	EPA 8270E	10-9-24	10-10-24	
Anthracene	0.014	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Carbazole	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Di-n-butylphthalate	ND	0.18	EPA 8270E	10-9-24	10-10-24	
Fluoranthene	0.062	0.037	EPA 8270E	10-9-24	10-10-24	
Pyrene	0.073	0.037	EPA 8270E	10-9-24	10-10-24	
Butylbenzylphthalate	ND	0.18	EPA 8270E	10-9-24	10-10-24	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270E	10-9-24	10-10-24	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270E	10-9-24	10-10-24	
Benzo[a]anthracene	0.032	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Chrysene	0.029	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270E	10-9-24	10-10-24	
Di-n-octylphthalate	ND	0.18	EPA 8270E	10-9-24	10-10-24	
Benzo[b]fluoranthene	0.037	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo(j,k)fluoranthene	0.013	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[a]pyrene	0.036	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Indeno[1,2,3-cd]pyrene	0.026	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[g,h,i]perylene	0.026	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	82	22 - 111				
Phenol-d6	84	25 - 117				
Nitrobenzene-d5	86	26 - 111				
2-Fluorobiphenyl	82	32 - 111				
2,4,6-Tribromophenol	91	26 - 130				
Terphenyl-d14	86	33 - 118				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-6-S-6					
Laboratory ID:	09-379-35					
n-Nitrosodimethylamine	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Pyridine	ND	0.37	EPA 8270E	10-9-24	10-10-24	
Phenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Aniline	ND	0.19	EPA 8270E	10-9-24	10-10-24	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2-Chlorophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
1,3-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
1,4-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Benzyl alcohol	ND	0.19	EPA 8270E	10-9-24	10-10-24	
1,2-Dichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270E	10-9-24	10-10-24	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270E	10-9-24	10-10-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270E	10-9-24	10-10-24	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Hexachloroethane	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Nitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Isophorone	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2-Nitrophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,4-Dimethylphenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,4-Dichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Naphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
4-Chloroaniline	ND	0.19	EPA 8270E	10-9-24	10-10-24	
Hexachlorobutadiene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
1-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Hexachlorocyclopentadiene	ND	0.24	EPA 8270E	10-9-24	10-10-24	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,3-Dichloroaniline	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2-Chloronaphthalene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-10-24	
1,4-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Dimethylphthalate	ND	0.037	EPA 8270E	10-9-24	10-10-24	
1,3-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,6-Dinitrotoluene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
1,2-Dinitrobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Acenaphthylene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
3-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-10-24	



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

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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-6-S-6					
Laboratory ID:	09-379-35					
2,4-Dinitrophenol	ND	0.19	EPA 8270E	10-9-24	10-10-24	
Acenaphthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
4-Nitrophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,4-Dinitrotoluene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Dibenzofuran	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Diethylphthalate	ND	0.19	EPA 8270E	10-9-24	10-10-24	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270E	10-9-24	10-10-24	
4-Nitroaniline	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Fluorene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270E	10-9-24	10-10-24	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270E	10-9-24	10-10-24	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270E	10-9-24	10-10-24	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Hexachlorobenzene	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Pentachlorophenol	ND	0.19	EPA 8270E	10-9-24	10-10-24	
Phenanthrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Carbazole	ND	0.037	EPA 8270E	10-9-24	10-10-24	
Di-n-butylphthalate	ND	0.19	EPA 8270E	10-9-24	10-10-24	
Fluoranthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Pyrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Butylbenzylphthalate	ND	0.19	EPA 8270E	10-9-24	10-10-24	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270E	10-9-24	10-10-24	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270E	10-9-24	10-10-24	
Benzo[a]anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Chrysene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270E	10-9-24	10-10-24	
Di-n-octylphthalate	ND	0.19	EPA 8270E	10-9-24	10-10-24	
Benzo[b]fluoranthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo(j,k)fluoranthene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[a]pyrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Indeno[1,2,3-cd]pyrene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Benzo[g,h,i]perylene	ND	0.0074	EPA 8270E/SIM	10-9-24	10-10-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	80	22 - 111				
Phenol-d6	81	25 - 117				
Nitrobenzene-d5	83	26 - 111				
2-Fluorobiphenyl	78	32 - 111				
2,4,6-Tribromophenol	88	26 - 130				
Terphenyl-d14	82	33 - 118				



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1009S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270E	10-9-24	10-9-24	
Pyridine	ND	0.33	EPA 8270E	10-9-24	10-9-24	
Phenol	ND	0.033	EPA 8270E	10-9-24	10-9-24	
Aniline	ND	0.21	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270E	10-9-24	10-9-24	
2-Chlorophenol	ND	0.033	EPA 8270E	10-9-24	10-9-24	
1,3-Dichlorobenzene	ND	0.033	EPA 8270E	10-9-24	10-9-24	
1,4-Dichlorobenzene	ND	0.033	EPA 8270E	10-9-24	10-9-24	
Benzyl alcohol	ND	0.17	EPA 8270E	10-9-24	10-9-24	
1,2-Dichlorobenzene	ND	0.033	EPA 8270E	10-9-24	10-9-24	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270E	10-9-24	10-9-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270E	10-9-24	10-9-24	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270E	10-9-24	10-9-24	
Hexachloroethane	ND	0.033	EPA 8270E	10-9-24	10-9-24	
Nitrobenzene	ND	0.033	EPA 8270E	10-9-24	10-9-24	
Isophorone	ND	0.033	EPA 8270E	10-9-24	10-9-24	
2-Nitrophenol	ND	0.033	EPA 8270E	10-9-24	10-9-24	
2,4-Dimethylphenol	ND	0.033	EPA 8270E	10-9-24	10-9-24	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270E	10-9-24	10-9-24	
2,4-Dichlorophenol	ND	0.033	EPA 8270E	10-9-24	10-9-24	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270E	10-9-24	10-9-24	
Naphthalene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
4-Chloroaniline	ND	0.17	EPA 8270E	10-9-24	10-9-24	
Hexachlorobutadiene	ND	0.033	EPA 8270E	10-9-24	10-9-24	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270E	10-9-24	10-9-24	
2-Methylnaphthalene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
1-Methylnaphthalene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
Hexachlorocyclopentadiene	ND	0.17	EPA 8270E	10-9-24	10-9-24	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270E	10-9-24	10-9-24	
2,3-Dichloroaniline	ND	0.033	EPA 8270E	10-9-24	10-9-24	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270E	10-9-24	10-9-24	
2-Chloronaphthalene	ND	0.033	EPA 8270E	10-9-24	10-9-24	
2-Nitroaniline	ND	0.033	EPA 8270E	10-9-24	10-9-24	
1,4-Dinitrobenzene	ND	0.033	EPA 8270E	10-9-24	10-9-24	
Dimethylphthalate	ND	0.033	EPA 8270E	10-9-24	10-9-24	
1,3-Dinitrobenzene	ND	0.033	EPA 8270E	10-9-24	10-9-24	
2,6-Dinitrotoluene	ND	0.033	EPA 8270E	10-9-24	10-9-24	
1,2-Dinitrobenzene	ND	0.033	EPA 8270E	10-9-24	10-9-24	
Acenaphthylene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
3-Nitroaniline	ND	0.033	EPA 8270E	10-9-24	10-9-24	



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Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1009S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270E	10-9-24	10-9-24	
Acenaphthene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
4-Nitrophenol	ND	0.033	EPA 8270E	10-9-24	10-9-24	
2,4-Dinitrotoluene	ND	0.033	EPA 8270E	10-9-24	10-9-24	
Dibenzofuran	ND	0.033	EPA 8270E	10-9-24	10-9-24	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270E	10-9-24	10-9-24	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270E	10-9-24	10-9-24	
Diethylphthalate	ND	0.17	EPA 8270E	10-9-24	10-9-24	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270E	10-9-24	10-9-24	
4-Nitroaniline	ND	0.033	EPA 8270E	10-9-24	10-9-24	
Fluorene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270E	10-9-24	10-9-24	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270E	10-9-24	10-9-24	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270E	10-9-24	10-9-24	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270E	10-9-24	10-9-24	
Hexachlorobenzene	ND	0.033	EPA 8270E	10-9-24	10-9-24	
Pentachlorophenol	ND	0.17	EPA 8270E	10-9-24	10-9-24	
Phenanthrene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
Anthracene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
Carbazole	ND	0.033	EPA 8270E	10-9-24	10-9-24	
Di-n-butylphthalate	ND	0.17	EPA 8270E	10-9-24	10-9-24	
Fluoranthene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
Pyrene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
Butylbenzylphthalate	ND	0.17	EPA 8270E	10-9-24	10-9-24	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270E	10-9-24	10-9-24	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270E	10-9-24	10-9-24	
Benzo[a]anthracene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
Chrysene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270E	10-9-24	10-9-24	
Di-n-octylphthalate	ND	0.17	EPA 8270E	10-9-24	10-9-24	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
Benzo[a]pyrene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270E/SIM	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	76	22 - 111				
Phenol-d6	79	25 - 117				
Nitrobenzene-d5	82	26 - 111				
2-Fluorobiphenyl	78	32 - 111				
2,4,6-Tribromophenol	86	26 - 130				
Terphenyl-d14	81	33 - 118				



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 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	Flags
	MS	MSD	MS	MSD		MS	MSD		RPD Limit	
MATRIX SPIKES										
Laboratory ID:	09-379-07									
n-Nitrosodimethylamine	0.260	0.245	0.667	0.667	ND	39	37	23 - 116	6	30
Pyridine	0.330	0.300	0.667	0.667	ND	49	45	20 - 120	10	30
Phenol	0.488	0.465	0.667	0.667	ND	73	70	27 - 116	5	44
Aniline	0.413	0.374	0.667	0.667	ND	62	56	20 - 119	10	30
bis(2-Chloroethyl)ether	0.475	0.426	0.667	0.667	ND	71	64	22 - 105	11	30
2-Chlorophenol	0.509	0.468	0.667	0.667	ND	76	70	32 - 109	8	43
1,3-Dichlorobenzene	0.453	0.370	0.667	0.667	ND	68	55	28 - 100	20	30
1,4-Dichlorobenzene	0.466	0.393	0.667	0.667	ND	70	59	29 - 106	17	40
Benzyl alcohol	0.475	0.478	0.667	0.667	ND	71	72	28 - 118	1	30
1,2-Dichlorobenzene	0.465	0.401	0.667	0.667	ND	70	60	32 - 100	15	30
2-Methylphenol (o-Cresol)	0.460	0.438	0.667	0.667	ND	69	66	32 - 107	5	30
bis(2-Chloroisopropyl)ether	0.343	0.312	0.667	0.667	ND	51	47	25 - 107	9	30
(3+4)-Methylphenol (m,p-Cresol)	0.473	0.470	0.667	0.667	ND	71	70	32 - 112	1	30
n-Nitroso-di-n-propylamine	0.419	0.410	0.667	0.667	ND	63	61	34 - 114	2	40
Hexachloroethane	0.478	0.400	0.667	0.667	ND	72	60	20 - 105	18	30
Nitrobenzene	0.398	0.349	0.667	0.667	ND	60	52	34 - 108	13	30
Isophorone	0.467	0.431	0.667	0.667	ND	70	65	34 - 110	8	30
2-Nitrophenol	0.508	0.466	0.667	0.667	ND	76	70	33 - 109	9	30
2,4-Dimethylphenol	0.517	0.489	0.667	0.667	ND	78	73	23 - 124	6	30
bis(2-Chloroethoxy)methane	0.439	0.430	0.667	0.667	ND	66	64	34 - 106	2	30
2,4-Dichlorophenol	0.476	0.459	0.667	0.667	ND	71	69	38 - 109	4	30
1,2,4-Trichlorobenzene	0.475	0.424	0.667	0.667	ND	71	64	39 - 108	11	43
Naphthalene	0.474	0.436	0.667	0.667	ND	71	65	42 - 102	8	30
4-Chloroaniline	0.330	0.346	0.667	0.667	ND	49	52	20 - 120	5	30
Hexachlorobutadiene	0.457	0.414	0.667	0.667	ND	69	62	42 - 104	10	30
4-Chloro-3-methylphenol	0.543	0.485	0.667	0.667	ND	81	73	34 - 119	11	40
2-Methylnaphthalene	0.455	0.428	0.667	0.667	ND	68	64	42 - 107	6	30
1-Methylnaphthalene	0.540	0.476	0.667	0.667	ND	81	71	43 - 105	13	30
Hexachlorocyclopentadiene	0.607	0.530	0.667	0.667	ND	91	79	20 - 120	14	30
2,4,6-Trichlorophenol	0.644	0.599	0.667	0.667	ND	97	90	34 - 115	7	30
2,3-Dichloroaniline	0.566	0.541	0.667	0.667	ND	85	81	26 - 108	5	30
2,4,5-Trichlorophenol	0.674	0.601	0.667	0.667	ND	101	90	34 - 113	11	30
2-Chloronaphthalene	0.545	0.510	0.667	0.667	ND	82	76	39 - 108	7	30
2-Nitroaniline	0.540	0.483	0.667	0.667	ND	81	72	32 - 125	11	30
1,4-Dinitrobenzene	0.605	0.521	0.667	0.667	ND	91	78	26 - 114	15	30
Dimethylphthalate	0.599	0.548	0.667	0.667	ND	90	82	39 - 110	9	30
1,3-Dinitrobenzene	0.621	0.564	0.667	0.667	ND	93	85	32 - 110	10	30
2,6-Dinitrotoluene	0.609	0.544	0.667	0.667	ND	91	82	35 - 110	11	30
1,2-Dinitrobenzene	0.622	0.610	0.667	0.667	ND	93	91	27 - 112	2	30
Acenaphthylene	0.628	0.604	0.667	0.667	ND	94	91	41 - 110	4	30
3-Nitroaniline	0.577	0.583	0.667	0.667	ND	87	87	32 - 113	1	30



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 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

page 2 of 2

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD	
					Result	Recovery	Limits	RPD Limit	Flags
MATRIX SPIKES									
Laboratory ID:	09-379-07								
	MS	MSD	MS	MSD		MS	MSD		
2,4-Dinitrophenol	0.490	0.444	0.667	0.667	ND	73	67	20 - 120	10 30
Acenaphthene	0.547	0.514	0.667	0.667	ND	82	77	42 - 107	6 40
4-Nitrophenol	0.491	0.425	0.667	0.667	ND	74	64	33 - 140	14 40
2,4-Dinitrotoluene	0.594	0.576	0.667	0.667	ND	89	86	35 - 115	3 40
Dibenzofuran	0.562	0.534	0.667	0.667	ND	84	80	43 - 107	5 30
2,3,5,6-Tetrachlorophenol	0.635	0.549	0.667	0.667	ND	95	82	34 - 114	15 30
2,3,4,6-Tetrachlorophenol	0.668	0.632	0.667	0.667	ND	100	95	33 - 111	6 30
Diethylphthalate	0.630	0.587	0.667	0.667	ND	94	88	41 - 110	7 30
4-Chlorophenyl-phenylether	0.606	0.545	0.667	0.667	ND	91	82	36 - 115	11 30
4-Nitroaniline	0.641	0.616	0.667	0.667	ND	96	92	20 - 120	4 30
Fluorene	0.581	0.529	0.667	0.667	ND	87	79	41 - 111	9 30
4,6-Dinitro-2-methylphenol	0.575	0.484	0.667	0.667	ND	86	73	20 - 100	17 30
n-Nitrosodiphenylamine	0.570	0.511	0.667	0.667	ND	85	77	39 - 108	11 30
1,2-Diphenylhydrazine	0.620	0.559	0.667	0.667	ND	93	84	39 - 107	10 30
4-Bromophenyl-phenylether	0.625	0.582	0.667	0.667	ND	94	87	44 - 108	7 30
Hexachlorobenzene	0.670	0.581	0.667	0.667	ND	100	87	42 - 111	14 30
Pentachlorophenol	0.619	0.573	0.667	0.667	ND	93	86	18 - 134	8 45
Phenanthrene	0.563	0.504	0.667	0.667	ND	84	76	39 - 110	11 30
Anthracene	0.591	0.513	0.667	0.667	ND	89	77	41 - 111	14 30
Carbazole	0.582	0.486	0.667	0.667	ND	87	73	37 - 107	18 30
Di-n-butylphthalate	0.602	0.541	0.667	0.667	ND	90	81	47 - 110	11 30
Fluoranthene	0.579	0.509	0.667	0.667	ND	87	76	35 - 113	13 30
Pyrene	0.583	0.513	0.667	0.667	ND	87	77	33 - 115	13 40
Butylbenzylphthalate	0.584	0.518	0.667	0.667	ND	88	78	42 - 111	12 30
bis-2-Ethylhexyladipate	0.576	0.516	0.667	0.667	ND	86	77	31 - 112	11 30
3,3'-Dichlorobenzidine	0.624	0.542	0.667	0.667	ND	94	81	20 - 120	14 30
Benzo[a]anthracene	0.564	0.490	0.667	0.667	ND	85	73	36 - 110	14 30
Chrysene	0.592	0.517	0.667	0.667	ND	89	78	35 - 112	14 30
bis(2-Ethylhexyl)phthalate	0.541	0.486	0.667	0.667	ND	81	73	37 - 114	11 30
Di-n-octylphthalate	0.542	0.481	0.667	0.667	ND	81	72	39 - 116	12 30
Benzo[b]fluoranthene	0.570	0.489	0.667	0.667	ND	85	73	39 - 111	15 30
Benzo(j,k)fluoranthene	0.570	0.511	0.667	0.667	ND	85	77	37 - 112	11 30
Benzo[a]pyrene	0.584	0.510	0.667	0.667	ND	88	76	38 - 113	14 30
Indeno[1,2,3-cd]pyrene	0.603	0.531	0.667	0.667	ND	90	80	38 - 117	13 30
Dibenz[a,h]anthracene	0.606	0.542	0.667	0.667	ND	91	81	40 - 115	11 30
Benzo[g,h,i]perylene	0.620	0.547	0.667	0.667	ND	93	82	37 - 114	13 30
Surrogate:									
2-Fluorophenol						58	56	22 - 111	
Phenol-d6						69	68	25 - 117	
Nitrobenzene-d5						62	55	26 - 111	
2-Fluorobiphenyl						77	74	32 - 111	
2,4,6-Tribromophenol						97	86	26 - 130	
Terphenyl-d14						84	75	33 - 118	



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL

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Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	Flags
SPIKE BLANKS									
Laboratory ID:	SB1009S1								
	SB	SBD	SB	SBD	SB	SBD			
n-Nitrosodimethylamine	0.505	0.497	0.667	0.667	76	75	35 - 116	2	35
Pyridine	0.357	0.373	0.667	0.667	54	56	20 - 100	4	45
Phenol	0.556	0.558	0.667	0.667	83	84	44 - 114	0	31
Aniline	0.391	0.451	0.667	0.667	59	68	25 - 113	14	42
bis(2-Chloroethyl)ether	0.574	0.506	0.667	0.667	86	76	37 - 108	13	36
2-Chlorophenol	0.542	0.545	0.667	0.667	81	82	46 - 108	1	35
1,3-Dichlorobenzene	0.491	0.493	0.667	0.667	74	74	41 - 100	0	38
1,4-Dichlorobenzene	0.487	0.485	0.667	0.667	73	73	44 - 102	0	37
Benzyl alcohol	0.610	0.605	0.667	0.667	91	91	48 - 113	1	31
1,2-Dichlorobenzene	0.490	0.493	0.667	0.667	73	74	42 - 102	1	37
2-Methylphenol (o-Cresol)	0.566	0.559	0.667	0.667	85	84	47 - 108	1	31
bis(2-Chloroisopropyl)ether	0.539	0.550	0.667	0.667	81	82	29 - 118	2	36
(3+4)-Methylphenol (m,p-Cresol)	0.574	0.567	0.667	0.667	86	85	49 - 110	1	30
n-Nitroso-di-n-propylamine	0.582	0.571	0.667	0.667	87	86	42 - 112	2	29
Hexachloroethane	0.504	0.503	0.667	0.667	76	75	38 - 102	0	44
Nitrobenzene	0.573	0.566	0.667	0.667	86	85	43 - 111	1	34
Isophorone	0.621	0.606	0.667	0.667	93	91	47 - 113	2	28
2-Nitrophenol	0.591	0.578	0.667	0.667	89	87	45 - 115	2	32
2,4-Dimethylphenol	0.601	0.586	0.667	0.667	90	88	46 - 118	3	31
bis(2-Chloroethoxy)methane	0.561	0.545	0.667	0.667	84	82	46 - 110	3	32
2,4-Dichlorophenol	0.575	0.562	0.667	0.667	86	84	55 - 105	2	30
1,2,4-Trichlorobenzene	0.509	0.506	0.667	0.667	76	76	51 - 106	1	31
Naphthalene	0.543	0.536	0.667	0.667	81	80	49 - 104	1	32
4-Chloroaniline	0.484	0.495	0.667	0.667	73	74	37 - 112	2	35
Hexachlorobutadiene	0.518	0.515	0.667	0.667	78	77	49 - 103	1	35
4-Chloro-3-methylphenol	0.633	0.612	0.667	0.667	95	92	55 - 116	3	25
2-Methylnaphthalene	0.513	0.493	0.667	0.667	77	74	55 - 104	4	28
1-Methylnaphthalene	0.581	0.565	0.667	0.667	87	85	53 - 106	3	29
Hexachlorocyclopentadiene	0.615	0.596	0.667	0.667	92	89	20 - 126	3	39
2,4,6-Trichlorophenol	0.599	0.586	0.667	0.667	90	88	56 - 113	2	32
2,3-Dichloroaniline	0.582	0.570	0.667	0.667	87	85	54 - 103	2	26
2,4,5-Trichlorophenol	0.584	0.571	0.667	0.667	88	86	58 - 111	2	30
2-Chloronaphthalene	0.581	0.566	0.667	0.667	87	85	56 - 106	3	29
2-Nitroaniline	0.615	0.600	0.667	0.667	92	90	44 - 129	2	28
1,4-Dinitrobenzene	0.617	0.607	0.667	0.667	93	91	51 - 123	2	30
Dimethylphthalate	0.603	0.584	0.667	0.667	90	88	58 - 110	3	26
1,3-Dinitrobenzene	0.572	0.562	0.667	0.667	86	84	55 - 118	2	27
2,6-Dinitrotoluene	0.614	0.584	0.667	0.667	92	88	56 - 114	5	26
1,2-Dinitrobenzene	0.570	0.553	0.667	0.667	85	83	48 - 126	3	27
Acenaphthylene	0.649	0.630	0.667	0.667	97	94	57 - 110	3	26
3-Nitroaniline	0.594	0.572	0.667	0.667	89	86	50 - 117	4	27



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL

page 2 of 2

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	Flags
SPIKE BLANKS									
Laboratory ID:	SB1009S1								
	SB	SBD	SB	SBD	SB	SBD			
2,4-Dinitrophenol	0.611	0.608	0.667	0.667	92	91	20 - 134	0	40
Acenaphthene	0.545	0.528	0.667	0.667	82	79	58 - 106	3	24
4-Nitrophenol	0.651	0.626	0.667	0.667	98	94	41 - 134	4	30
2,4-Dinitrotoluene	0.579	0.550	0.667	0.667	87	82	54 - 116	5	25
Dibenzofuran	0.568	0.552	0.667	0.667	85	83	58 - 107	3	26
2,3,5,6-Tetrachlorophenol	0.627	0.603	0.667	0.667	94	90	47 - 120	4	28
2,3,4,6-Tetrachlorophenol	0.607	0.583	0.667	0.667	91	87	47 - 111	4	31
Diethylphthalate	0.626	0.603	0.667	0.667	94	90	58 - 113	4	26
4-Chlorophenyl-phenylether	0.578	0.569	0.667	0.667	87	85	59 - 109	2	26
4-Nitroaniline	0.552	0.538	0.667	0.667	83	81	49 - 116	3	26
Fluorene	0.595	0.580	0.667	0.667	89	87	59 - 109	3	26
4,6-Dinitro-2-methylphenol	0.567	0.566	0.667	0.667	85	85	20 - 129	0	33
n-Nitrosodiphenylamine	0.584	0.567	0.667	0.667	88	85	58 - 107	3	22
1,2-Diphenylhydrazine	0.582	0.560	0.667	0.667	87	84	58 - 108	4	25
4-Bromophenyl-phenylether	0.579	0.565	0.667	0.667	87	85	62 - 107	2	24
Hexachlorobenzene	0.596	0.568	0.667	0.667	89	85	62 - 107	5	25
Pentachlorophenol	0.586	0.572	0.667	0.667	88	86	30 - 125	2	32
Phenanthrene	0.569	0.561	0.667	0.667	85	84	58 - 110	1	25
Anthracene	0.594	0.577	0.667	0.667	89	87	60 - 111	3	24
Carbazole	0.578	0.574	0.667	0.667	87	86	57 - 108	1	24
Di-n-butylphthalate	0.665	0.648	0.667	0.667	100	97	59 - 115	3	25
Fluoranthene	0.604	0.585	0.667	0.667	91	88	60 - 112	3	25
Pyrene	0.575	0.560	0.667	0.667	86	84	55 - 118	3	25
Butylbenzylphthalate	0.603	0.591	0.667	0.667	90	89	55 - 117	2	26
bis-2-Ethylhexyladipate	0.601	0.588	0.667	0.667	90	88	49 - 122	2	25
3,3'-Dichlorobenzidine	0.536	0.528	0.667	0.667	80	79	48 - 110	2	30
Benzo[a]anthracene	0.567	0.555	0.667	0.667	85	83	57 - 110	2	26
Chrysene	0.570	0.555	0.667	0.667	85	83	56 - 112	3	24
bis(2-Ethylhexyl)phthalate	0.609	0.589	0.667	0.667	91	88	52 - 124	3	26
Di-n-octylphthalate	0.648	0.635	0.667	0.667	97	95	55 - 123	2	28
Benzo[b]fluoranthene	0.583	0.569	0.667	0.667	87	85	59 - 111	2	28
Benzo(j,k)fluoranthene	0.589	0.574	0.667	0.667	88	86	59 - 112	3	25
Benzo[a]pyrene	0.601	0.585	0.667	0.667	90	88	60 - 111	3	25
Indeno[1,2,3-cd]pyrene	0.619	0.592	0.667	0.667	93	89	58 - 121	4	26
Dibenz[a,h]anthracene	0.611	0.600	0.667	0.667	92	90	61 - 115	2	25
Benzo[g,h,i]perylene	0.618	0.604	0.667	0.667	93	91	59 - 112	2	25
Surrogate:									
2-Fluorophenol					79	77	22 - 111		
Phenol-d6					82	81	25 - 117		
Nitrobenzene-d5					85	84	26 - 111		
2-Fluorobiphenyl					84	80	32 - 111		
2,4,6-Tribromophenol					94	91	26 - 130		
Terphenyl-d14					86	82	33 - 118		



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

PCBs EPA 8082A

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-3					
Laboratory ID:	09-379-13					
Aroclor 1016	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1221	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1232	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1242	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1248	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1254	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1260	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1262	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1268	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
DCB	95	40-134				
Client ID:	HA-B-4-S-1					
Laboratory ID:	09-379-19					
Aroclor 1016	ND	0.056	EPA 8082A	10-9-24	10-9-24	
Aroclor 1221	ND	0.056	EPA 8082A	10-9-24	10-9-24	
Aroclor 1232	ND	0.056	EPA 8082A	10-9-24	10-9-24	
Aroclor 1242	ND	0.056	EPA 8082A	10-9-24	10-9-24	
Aroclor 1248	ND	0.056	EPA 8082A	10-9-24	10-9-24	
Aroclor 1254	ND	0.056	EPA 8082A	10-9-24	10-9-24	
Aroclor 1260	ND	0.056	EPA 8082A	10-9-24	10-9-24	
Aroclor 1262	ND	0.056	EPA 8082A	10-9-24	10-9-24	
Aroclor 1268	ND	0.056	EPA 8082A	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
DCB	100	40-134				
Client ID:	HA-B-5-S-2					
Laboratory ID:	09-379-29					
Aroclor 1016	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1221	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1232	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1242	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1248	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1254	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1260	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1262	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Aroclor 1268	ND	0.055	EPA 8082A	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
DCB	97	40-134				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1009S1					
Aroclor 1016	ND	0.050	EPA 8082A	10-9-24	10-9-24	
Aroclor 1221	ND	0.050	EPA 8082A	10-9-24	10-9-24	
Aroclor 1232	ND	0.050	EPA 8082A	10-9-24	10-9-24	
Aroclor 1242	ND	0.050	EPA 8082A	10-9-24	10-9-24	
Aroclor 1248	ND	0.050	EPA 8082A	10-9-24	10-9-24	
Aroclor 1254	ND	0.050	EPA 8082A	10-9-24	10-9-24	
Aroclor 1260	ND	0.050	EPA 8082A	10-9-24	10-9-24	
Aroclor 1262	ND	0.050	EPA 8082A	10-9-24	10-9-24	
Aroclor 1268	ND	0.050	EPA 8082A	10-9-24	10-9-24	
Surrogate:	Percent Recovery	Control Limits				
DCB	100	40-134				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES										
Laboratory ID:	09-379-13									
	MS	MSD	MS	MSD		MS	MSD			
Aroclor 1260	0.490	0.495	0.500	0.500	ND	98	99	40-111	1	24
Surrogate:										
DCB						93	96	40-134		

SPIKE BLANKS

Laboratory ID:	SB1009S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.516	0.488	0.500	0.500	N/A	103	98	60-115	6	23	
Surrogate:											
DCB						106	104	40-134			



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-3-S-3					
Laboratory ID:	09-379-13					
alpha-BHC	ND	5.5	EPA 8081B	10-9-24	10-9-24	
gamma-BHC	ND	5.5	EPA 8081B	10-9-24	10-9-24	
beta-BHC	ND	5.5	EPA 8081B	10-9-24	10-9-24	
delta-BHC	ND	5.5	EPA 8081B	10-9-24	10-9-24	
Heptachlor	ND	5.5	EPA 8081B	10-9-24	10-9-24	
Aldrin	ND	5.5	EPA 8081B	10-9-24	10-9-24	
Heptachlor epoxide	ND	5.5	EPA 8081B	10-9-24	10-9-24	
gamma-Chlordane	ND	11	EPA 8081B	10-9-24	10-9-24	
alpha-Chlordane	ND	11	EPA 8081B	10-9-24	10-9-24	
4,4'-DDE	ND	11	EPA 8081B	10-9-24	10-9-24	
Endosulfan I	ND	5.5	EPA 8081B	10-9-24	10-9-24	
Dieldrin	ND	11	EPA 8081B	10-9-24	10-9-24	
Endrin	ND	11	EPA 8081B	10-9-24	10-9-24	
4,4'-DDD	ND	11	EPA 8081B	10-9-24	10-9-24	
Endosulfan II	ND	11	EPA 8081B	10-9-24	10-9-24	
4,4'-DDT	ND	11	EPA 8081B	10-9-24	10-9-24	
Endrin aldehyde	ND	11	EPA 8081B	10-9-24	10-9-24	
Methoxychlor	ND	11	EPA 8081B	10-9-24	10-9-24	Y1
Endosulfan sulfate	ND	11	EPA 8081B	10-9-24	10-9-24	
Endrin ketone	ND	11	EPA 8081B	10-9-24	10-9-24	
Toxaphene	ND	55	EPA 8081B	10-9-24	10-9-24	
Tech Chlordane	ND	55	EPA 8081B	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>79</i>	<i>27-122</i>				
<i>Decachlorobiphenyl</i>	<i>82</i>	<i>22-122</i>				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-4-S-1					
Laboratory ID:	09-379-19					
alpha-BHC	ND	5.6	EPA 8081B	10-9-24	10-9-24	
gamma-BHC	ND	5.6	EPA 8081B	10-9-24	10-9-24	
beta-BHC	ND	5.6	EPA 8081B	10-9-24	10-9-24	
delta-BHC	ND	5.6	EPA 8081B	10-9-24	10-9-24	
Heptachlor	ND	5.6	EPA 8081B	10-9-24	10-9-24	
Aldrin	ND	5.6	EPA 8081B	10-9-24	10-9-24	
Heptachlor epoxide	ND	5.6	EPA 8081B	10-9-24	10-9-24	
gamma-Chlordane	ND	11	EPA 8081B	10-9-24	10-9-24	
alpha-Chlordane	ND	11	EPA 8081B	10-9-24	10-9-24	
4,4'-DDE	ND	11	EPA 8081B	10-9-24	10-9-24	
Endosulfan I	ND	5.6	EPA 8081B	10-9-24	10-9-24	
Dieldrin	ND	11	EPA 8081B	10-9-24	10-9-24	
Endrin	ND	11	EPA 8081B	10-9-24	10-9-24	
4,4'-DDD	ND	11	EPA 8081B	10-9-24	10-9-24	
Endosulfan II	ND	11	EPA 8081B	10-9-24	10-9-24	
4,4'-DDT	ND	11	EPA 8081B	10-9-24	10-9-24	
Endrin aldehyde	ND	11	EPA 8081B	10-9-24	10-9-24	
Methoxychlor	ND	11	EPA 8081B	10-9-24	10-9-24	Y1
Endosulfan sulfate	ND	11	EPA 8081B	10-9-24	10-9-24	
Endrin ketone	ND	11	EPA 8081B	10-9-24	10-9-24	
Toxaphene	ND	56	EPA 8081B	10-9-24	10-9-24	
Tech Chlordane	ND	56	EPA 8081B	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>76</i>	<i>27-122</i>				
<i>Decachlorobiphenyl</i>	<i>68</i>	<i>22-122</i>				



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-5-S-2					
Laboratory ID:	09-379-29					
alpha-BHC	ND	5.5	EPA 8081B	10-9-24	10-9-24	
gamma-BHC	ND	5.5	EPA 8081B	10-9-24	10-9-24	
beta-BHC	ND	5.5	EPA 8081B	10-9-24	10-9-24	
delta-BHC	ND	5.5	EPA 8081B	10-9-24	10-9-24	
Heptachlor	ND	5.5	EPA 8081B	10-9-24	10-9-24	
Aldrin	ND	5.5	EPA 8081B	10-9-24	10-9-24	
Heptachlor epoxide	ND	5.5	EPA 8081B	10-9-24	10-9-24	
gamma-Chlordane	ND	11	EPA 8081B	10-9-24	10-9-24	
alpha-Chlordane	ND	11	EPA 8081B	10-9-24	10-9-24	
4,4'-DDE	ND	11	EPA 8081B	10-9-24	10-9-24	
Endosulfan I	ND	5.5	EPA 8081B	10-9-24	10-9-24	
Dieldrin	ND	11	EPA 8081B	10-9-24	10-9-24	
Endrin	ND	11	EPA 8081B	10-9-24	10-9-24	
4,4'-DDD	ND	11	EPA 8081B	10-9-24	10-9-24	
Endosulfan II	ND	11	EPA 8081B	10-9-24	10-9-24	
4,4'-DDT	ND	11	EPA 8081B	10-9-24	10-9-24	
Endrin aldehyde	ND	11	EPA 8081B	10-9-24	10-9-24	
Methoxychlor	ND	11	EPA 8081B	10-9-24	10-9-24	Y1
Endosulfan sulfate	ND	11	EPA 8081B	10-9-24	10-9-24	
Endrin ketone	ND	11	EPA 8081B	10-9-24	10-9-24	
Toxaphene	ND	55	EPA 8081B	10-9-24	10-9-24	
Tech Chlordane	ND	55	EPA 8081B	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>90</i>	<i>27-122</i>				
<i>Decachlorobiphenyl</i>	<i>79</i>	<i>22-122</i>				



Date of Report: October 16, 2024
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 Laboratory Reference: 2409-379
 Project: 0209066-000

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1009S1					
alpha-BHC	ND	5.0	EPA 8081B	10-9-24	10-9-24	
gamma-BHC	ND	5.0	EPA 8081B	10-9-24	10-9-24	
beta-BHC	ND	5.0	EPA 8081B	10-9-24	10-9-24	
delta-BHC	ND	5.0	EPA 8081B	10-9-24	10-9-24	
Heptachlor	ND	5.0	EPA 8081B	10-9-24	10-9-24	
Aldrin	ND	5.0	EPA 8081B	10-9-24	10-9-24	
Heptachlor epoxide	ND	5.0	EPA 8081B	10-9-24	10-9-24	
gamma-Chlordane	ND	10	EPA 8081B	10-9-24	10-9-24	
alpha-Chlordane	ND	10	EPA 8081B	10-9-24	10-9-24	
4,4'-DDE	ND	10	EPA 8081B	10-9-24	10-9-24	
Endosulfan I	ND	5.0	EPA 8081B	10-9-24	10-9-24	
Dieldrin	ND	10	EPA 8081B	10-9-24	10-9-24	
Endrin	ND	10	EPA 8081B	10-9-24	10-9-24	
4,4'-DDD	ND	10	EPA 8081B	10-9-24	10-9-24	
Endosulfan II	ND	10	EPA 8081B	10-9-24	10-9-24	
4,4'-DDT	ND	10	EPA 8081B	10-9-24	10-9-24	
Endrin aldehyde	ND	10	EPA 8081B	10-9-24	10-9-24	
Methoxychlor	ND	10	EPA 8081B	10-9-24	10-9-24	
Endosulfan sulfate	ND	10	EPA 8081B	10-9-24	10-9-24	
Endrin ketone	ND	10	EPA 8081B	10-9-24	10-9-24	
Toxaphene	ND	50	EPA 8081B	10-9-24	10-9-24	
Tech Chlordane	ND	50	EPA 8081B	10-9-24	10-9-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>99</i>	<i>27-122</i>				
<i>Decachlorobiphenyl</i>	<i>100</i>	<i>22-122</i>				



Date of Report: October 16, 2024
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 Project: 0209066-000

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-379-29										
	MS	MSD	MS	MSD		MS	MSD				
alpha-BHC	71.6	67.8	100	100	ND	72	68	31-115	5	31	
gamma-BHC	70.5	68.5	100	100	ND	71	69	32-121	3	35	
beta-BHC	66.7	64.5	100	100	ND	67	65	25-112	3	37	
delta-BHC	72.6	71.1	100	100	ND	73	71	16-119	2	39	
Heptachlor	68.5	65.1	100	100	ND	69	65	27-109	5	33	
Aldrin	67.8	65.4	100	100	ND	68	65	27-113	4	34	
Heptachlor epoxide	63.8	61.5	100	100	ND	64	62	27-116	4	37	
gamma-Chlordane	71.1	66.9	100	100	ND	71	67	23-116	6	37	
alpha-Chlordane	70.2	65.5	100	100	ND	70	66	23-113	7	36	
4,4'-DDE	64.9	62.9	100	100	ND	65	63	20-111	3	37	
Endosulfan I	65.6	63.6	100	100	ND	66	64	25-117	3	38	
Dieldrin	67.0	62.5	100	100	ND	67	63	25-120	7	35	
Endrin	70.2	67.3	100	100	ND	70	67	26-119	4	34	
4,4'-DDD	67.0	63.4	100	100	ND	67	63	24-132	6	36	
Endosulfan II	63.4	59.6	100	100	ND	63	60	24-117	6	34	
4,4'-DDT	79.1	75.0	100	100	ND	79	75	20-125	5	46	
Endrin aldehyde	61.9	59.9	100	100	ND	62	60	23-115	3	34	
Methoxychlor	71.9	67.8	100	100	ND	72	68	20-131	6	45	
Endosulfan sulfate	67.6	64.0	100	100	ND	68	64	23-114	5	35	
Endrin ketone	71.3	71.7	100	100	ND	71	72	21-119	1	38	
Surrogate:											
Tetrachloro-m-xylene						78	83	27-122			
Decachlorobiphenyl						70	77	22-122			



Date of Report: October 16, 2024
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 Project: 0209066-000

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1009S1									
	SB	SBD	SB	SBD		SB	SBD			
alpha-BHC	83.0	79.1	100	100	N/A	83	79	44-127	5	20
gamma-BHC	82.2	78.9	100	100	N/A	82	79	47-127	4	20
beta-BHC	76.5	74.0	100	100	N/A	77	74	44-120	3	20
delta-BHC	67.3	63.5	100	100	N/A	67	64	44-131	6	23
Heptachlor	78.2	75.2	100	100	N/A	78	75	47-120	4	19
Aldrin	80.0	77.3	100	100	N/A	80	77	50-119	3	20
Heptachlor epoxide	75.2	73.0	100	100	N/A	75	73	49-115	3	18
gamma-Chlordane	84.8	81.7	100	100	N/A	85	82	51-118	4	20
alpha-Chlordane	83.1	79.2	100	100	N/A	83	79	46-119	5	20
4,4'-DDE	77.3	75.9	100	100	N/A	77	76	52-119	2	19
Endosulfan I	76.5	75.1	100	100	N/A	77	75	51-115	2	20
Dieldrin	78.8	75.8	100	100	N/A	79	76	50-118	4	18
Endrin	78.4	76.9	100	100	N/A	78	77	51-116	2	18
4,4'-DDD	78.2	75.6	100	100	N/A	78	76	51-120	3	20
Endosulfan II	74.1	71.6	100	100	N/A	74	72	50-117	3	21
4,4'-DDT	95.2	96.3	100	100	N/A	95	96	39-139	1	28
Endrin aldehyde	71.6	70.6	100	100	N/A	72	71	47-116	1	19
Methoxychlor	78.6	76.7	100	100	N/A	79	77	37-134	2	25
Endosulfan sulfate	77.0	74.6	100	100	N/A	77	75	46-123	3	26
Endrin ketone	84.4	83.0	100	100	N/A	84	83	47-126	2	21
Surrogate:										
Tetrachloro-m-xylene						89	86	27-122		
Decachlorobiphenyl						93	88	22-122		



Date of Report: October 16, 2024
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 Laboratory Reference: 2409-379
 Project: 0209066-000

TOTAL METALS
EPA 6010D/6020B/7471B

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: HA-B-1-S-3						
Laboratory ID: 09-379-01						
Arsenic	2.5	0.28	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.55	EPA 6010D	10-15-24	10-15-24	
Chromium	27	0.55	EPA 6010D	10-15-24	10-15-24	
Copper	17	1.1	EPA 6010D	10-15-24	10-15-24	
Lead	16	0.28	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.28	EPA 7471B	10-15-24	10-15-24	
Nickel	39	2.8	EPA 6010D	10-15-24	10-15-24	
Zinc	36	2.8	EPA 6010D	10-15-24	10-15-24	

Client ID: HA-B-1-S-5						
Laboratory ID: 09-379-02						
Arsenic	2.7	0.28	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.56	EPA 6010D	10-15-24	10-15-24	
Chromium	24	0.56	EPA 6010D	10-15-24	10-15-24	
Copper	14	1.1	EPA 6010D	10-15-24	10-15-24	
Lead	19	0.28	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.28	EPA 7471B	10-15-24	10-15-24	
Nickel	37	2.8	EPA 6010D	10-15-24	10-15-24	
Zinc	43	2.8	EPA 6010D	10-15-24	10-15-24	

Client ID: HA-FD-1						
Laboratory ID: 09-379-06						
Arsenic	2.7	0.28	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.57	EPA 6010D	10-15-24	10-15-24	
Chromium	21	0.57	EPA 6010D	10-15-24	10-15-24	
Copper	15	1.1	EPA 6010D	10-15-24	10-15-24	
Lead	5.8	0.28	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.28	EPA 7471B	10-15-24	10-15-24	
Nickel	35	2.8	EPA 6010D	10-15-24	10-15-24	
Zinc	30	2.8	EPA 6010D	10-15-24	10-15-24	



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 Laboratory Reference: 2409-379
 Project: 0209066-000

TOTAL METALS
EPA 6010D/6020B/7471B

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: HA-B-2-S-2						
Laboratory ID: 09-379-07						
Arsenic	1.3	0.27	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.54	EPA 6010D	10-15-24	10-15-24	
Chromium	17	0.54	EPA 6010D	10-15-24	10-15-24	
Copper	8.0	1.1	EPA 6010D	10-15-24	10-15-24	
Lead	1.6	0.27	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.27	EPA 7471B	10-15-24	10-15-24	
Nickel	28	2.7	EPA 6010D	10-15-24	10-15-24	
Zinc	20	2.7	EPA 6010D	10-15-24	10-15-24	

Client ID: HA-B-2-S-5						
Laboratory ID: 09-379-09						
Arsenic	3.0	0.29	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.57	EPA 6010D	10-15-24	10-15-24	
Chromium	21	0.57	EPA 6010D	10-15-24	10-15-24	
Copper	17	1.1	EPA 6010D	10-15-24	10-15-24	
Lead	36	0.29	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.29	EPA 7471B	10-15-24	10-15-24	
Nickel	30	2.9	EPA 6010D	10-15-24	10-15-24	
Zinc	55	2.9	EPA 6010D	10-15-24	10-15-24	

Client ID: HA-B-2-S-9						
Laboratory ID: 09-379-12						
Arsenic	19	0.29	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.59	EPA 6010D	10-15-24	10-15-24	
Chromium	28	0.59	EPA 6010D	10-15-24	10-15-24	
Copper	20	1.2	EPA 6010D	10-15-24	10-15-24	
Lead	13	0.29	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.29	EPA 7471B	10-15-24	10-15-24	
Nickel	36	2.9	EPA 6010D	10-15-24	10-15-24	
Zinc	48	2.9	EPA 6010D	10-15-24	10-15-24	



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 Project: 0209066-000

TOTAL METALS
EPA 6010D/6020B/7471B

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: HA-B-3-S-3						
Laboratory ID: 09-379-13						
Arsenic	2.8	0.28	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.55	EPA 6010D	10-15-24	10-15-24	
Chromium	25	0.55	EPA 6010D	10-15-24	10-15-24	
Copper	13	1.1	EPA 6010D	10-15-24	10-15-24	
Lead	9.0	0.28	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.28	EPA 7471B	10-15-24	10-15-24	
Nickel	33	2.8	EPA 6010D	10-15-24	10-15-24	
Zinc	38	2.8	EPA 6010D	10-15-24	10-15-24	

Client ID: HA-B-3-S-5						
Laboratory ID: 09-379-14						
Arsenic	1.0	0.29	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.57	EPA 6010D	10-15-24	10-15-24	
Chromium	19	0.57	EPA 6010D	10-15-24	10-15-24	
Copper	8.7	1.1	EPA 6010D	10-15-24	10-15-24	
Lead	2.2	0.29	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.29	EPA 7471B	10-15-24	10-15-24	
Nickel	30	2.9	EPA 6010D	10-15-24	10-15-24	
Zinc	21	2.9	EPA 6010D	10-15-24	10-15-24	

Client ID: HA-B-3-S-8						
Laboratory ID: 09-379-17						
Arsenic	2.2	0.29	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.58	EPA 6010D	10-15-24	10-15-24	
Chromium	26	0.58	EPA 6010D	10-15-24	10-15-24	
Copper	12	1.2	EPA 6010D	10-15-24	10-15-24	
Lead	2.3	0.29	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.29	EPA 7471B	10-15-24	10-15-24	
Nickel	35	2.9	EPA 6010D	10-15-24	10-15-24	
Zinc	25	2.9	EPA 6010D	10-15-24	10-15-24	



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 Laboratory Reference: 2409-379
 Project: 0209066-000

TOTAL METALS
EPA 6010D/6020B/7471B

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA-B-4-S-1					
Laboratory ID:	09-379-19					
Arsenic	3.3	0.28	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.56	EPA 6010D	10-15-24	10-15-24	
Chromium	23	0.56	EPA 6010D	10-15-24	10-15-24	
Copper	18	1.1	EPA 6010D	10-15-24	10-15-24	
Lead	5.8	0.28	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.28	EPA 7471B	10-15-24	10-15-24	
Nickel	37	2.8	EPA 6010D	10-15-24	10-15-24	
Zinc	39	2.8	EPA 6010D	10-15-24	10-15-24	

Client ID:	HA-B-4-S-3					
Laboratory ID:	09-379-21					
Arsenic	3.5	0.29	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.58	EPA 6010D	10-15-24	10-15-24	
Chromium	33	0.58	EPA 6010D	10-15-24	10-15-24	
Copper	22	1.2	EPA 6010D	10-15-24	10-15-24	
Lead	4.1	0.29	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.29	EPA 7471B	10-15-24	10-15-24	
Nickel	46	2.9	EPA 6010D	10-15-24	10-15-24	
Zinc	44	2.9	EPA 6010D	10-15-24	10-15-24	

Client ID:	HA-B-4-S-8					
Laboratory ID:	09-379-26					
Arsenic	2.5	0.28	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.56	EPA 6010D	10-15-24	10-15-24	
Chromium	22	0.56	EPA 6010D	10-15-24	10-15-24	
Copper	12	1.1	EPA 6010D	10-15-24	10-15-24	
Lead	2.8	0.28	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.28	EPA 7471B	10-15-24	10-15-24	
Nickel	34	2.8	EPA 6010D	10-15-24	10-15-24	
Zinc	24	2.8	EPA 6010D	10-15-24	10-15-24	



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 Project: 0209066-000

TOTAL METALS
EPA 6010D/6020B/7471B

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: HA-B-5-S-2						
Laboratory ID: 09-379-29						
Arsenic	2.0	0.28	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.55	EPA 6010D	10-15-24	10-15-24	
Chromium	21	0.55	EPA 6010D	10-15-24	10-15-24	
Copper	15	1.1	EPA 6010D	10-15-24	10-15-24	
Lead	7.0	0.28	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.28	EPA 7471B	10-15-24	10-15-24	
Nickel	31	2.8	EPA 6010D	10-15-24	10-15-24	
Zinc	41	2.8	EPA 6010D	10-15-24	10-15-24	

Client ID: HA-B-5-S-3						
Laboratory ID: 09-379-30						
Arsenic	1.8	0.28	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.55	EPA 6010D	10-15-24	10-15-24	
Chromium	19	0.55	EPA 6010D	10-15-24	10-15-24	
Copper	10	1.1	EPA 6010D	10-15-24	10-15-24	
Lead	3.8	0.28	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.28	EPA 7471B	10-15-24	10-15-24	
Nickel	31	2.8	EPA 6010D	10-15-24	10-15-24	
Zinc	23	2.8	EPA 6010D	10-15-24	10-15-24	

Client ID: HA-B-5-S-6						
Laboratory ID: 09-379-32						
Arsenic	2.4	0.29	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.57	EPA 6010D	10-15-24	10-15-24	
Chromium	27	0.57	EPA 6010D	10-15-24	10-15-24	
Copper	13	1.1	EPA 6010D	10-15-24	10-15-24	
Lead	2.2	0.29	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.29	EPA 7471B	10-15-24	10-15-24	
Nickel	42	2.9	EPA 6010D	10-15-24	10-15-24	
Zinc	29	2.9	EPA 6010D	10-15-24	10-15-24	



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

TOTAL METALS
EPA 6010D/6020B/7471B

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		HA-B-6-S-3				
Laboratory ID:		09-379-33				
Arsenic	1.9	0.27	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.54	EPA 6010D	10-15-24	10-15-24	
Chromium	25	0.54	EPA 6010D	10-15-24	10-15-24	
Copper	15	1.1	EPA 6010D	10-15-24	10-15-24	
Lead	2.4	0.27	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.27	EPA 7471B	10-15-24	10-15-24	
Nickel	37	2.7	EPA 6010D	10-15-24	10-15-24	
Zinc	31	2.7	EPA 6010D	10-15-24	10-15-24	

Client ID:		HA-B-6-S-5				
Laboratory ID:		09-379-34				
Arsenic	2.5	0.28	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.55	EPA 6010D	10-15-24	10-15-24	
Chromium	24	0.55	EPA 6010D	10-15-24	10-15-24	
Copper	16	1.1	EPA 6010D	10-15-24	10-15-24	
Lead	19	0.28	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.28	EPA 7471B	10-15-24	10-15-24	
Nickel	35	2.8	EPA 6010D	10-15-24	10-15-24	
Zinc	46	2.8	EPA 6010D	10-15-24	10-15-24	

Client ID:		HA-B-6-S-6				
Laboratory ID:		09-379-35				
Arsenic	2.9	0.28	EPA 6020B	10-15-24	10-16-24	
Cadmium	ND	0.56	EPA 6010D	10-15-24	10-15-24	
Chromium	24	0.56	EPA 6010D	10-15-24	10-15-24	
Copper	14	1.1	EPA 6010D	10-15-24	10-15-24	
Lead	3.3	0.28	EPA 6020B	10-15-24	10-16-24	
Mercury	ND	0.28	EPA 7471B	10-15-24	10-15-24	
Nickel	42	2.8	EPA 6010D	10-15-24	10-15-24	
Zinc	30	2.8	EPA 6010D	10-15-24	10-15-24	



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

TOTAL METALS
EPA 6010D/6020B/7471B
QUALITY CONTROL

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1015SM1					
Cadmium	ND	0.50	EPA 6010D	10-15-24	10-15-24	
Chromium	ND	0.50	EPA 6010D	10-15-24	10-15-24	
Copper	ND	1.0	EPA 6010D	10-15-24	10-15-24	
Nickel	ND	2.5	EPA 6010D	10-15-24	10-15-24	
Zinc	ND	2.5	EPA 6010D	10-15-24	10-15-24	
Laboratory ID:	MB1015SM1					
Arsenic	ND	0.25	EPA 6020B	10-15-24	10-16-24	
Lead	ND	0.25	EPA 6020B	10-15-24	10-16-24	
Laboratory ID:	MB1015S1					
Mercury	ND	0.25	EPA 7471B	10-15-24	10-15-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-379-02							
	ORIG	DUP						
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	21.1	20.6	NA	NA	NA	NA	3	20
Copper	12.9	12.6	NA	NA	NA	NA	2	20
Nickel	32.9	31.1	NA	NA	NA	NA	6	20
Zinc	38.3	36.5	NA	NA	NA	NA	5	20
Laboratory ID:	09-379-02							
Arsenic	2.40	2.36	NA	NA	NA	NA	1	20
Lead	16.8	16.8	NA	NA	NA	NA	0	20
Laboratory ID:	09-379-02							
Mercury	ND	ND	NA	NA	NA	NA	NA	20



Date of Report: October 16, 2024
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 Laboratory Reference: 2409-379
 Project: 0209066-000

TOTAL METALS
EPA 6010D/6020B/7471B
QUALITY CONTROL

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	Limit	Flags
MATRIX SPIKES										
Laboratory ID:	09-379-02									
	MS	MSD	MS	MSD		MS	MSD			
Cadmium	43.5	42.8	50.0	50.0	ND	87	86	75-125	2	20
Chromium	116	114	100	100	21.1	94	93	75-125	1	20
Copper	58.5	57.0	50.0	50.0	12.9	91	88	75-125	3	20
Nickel	127	125	100	100	32.9	94	92	75-125	2	20
Zinc	132	128	100	100	38.3	94	90	75-125	3	20
Laboratory ID:	09-379-02									
Arsenic	84.5	91.5	100	100	2.40	82	89	75-125	8	20
Lead	239	254	250	250	16.8	89	95	75-125	6	20
Laboratory ID:	09-379-02									
Mercury	0.563	0.586	0.500	0.500	0.0619	100	105	80-120	4	20
SPIKE BLANK										
Laboratory ID:	SB1015SM1									
Cadmium	44.4		50.0		N/A	89		80-120		
Chromium	102		100		N/A	102		80-120		
Copper	50.5		50.0		N/A	101		80-120		
Nickel	106		100		N/A	106		80-120		
Zinc	100		100		N/A	100		80-120		
Laboratory ID:	SB1015SM1									
Arsenic	92.5		100		N/A	93		80-120		
Lead	249		250		N/A	99		80-120		
Laboratory ID:	SB1015S1									
Mercury	0.504		0.500		N/A	101		80-120		



Date of Report: October 16, 2024
 Samples Submitted: September 30, 2024
 Laboratory Reference: 2409-379
 Project: 0209066-000

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
HA-B-1-S-3	09-379-01	10	10-9-24
HA-B-1-S-5	09-379-02	10	10-9-24
HA-FD-1	09-379-06	12	10-9-24
HA-B-2-S-2	09-379-07	8	10-9-24
HA-B-2-S-5	09-379-09	13	10-9-24
HA-B-2-S-9	09-379-12	15	10-9-24
HA-B-3-S-3	09-379-13	9	10-9-24
HA-B-3-S-5	09-379-14	13	10-9-24
HA-B-3-S-8	09-379-17	14	10-9-24
HA-B-4-S-1	09-379-19	10	10-9-24
HA-B-4-S-3	09-379-21	14	10-9-24
HA-B-4-S-8	09-379-26	10	10-9-24
HA-B-5-S-2	09-379-29	9	10-9-24
HA-B-5-S-3	09-379-30	9	10-9-24
HA-B-5-S-6	09-379-32	13	10-9-24
HA-B-6-S-3	09-379-33	8	10-9-24
HA-B-6-S-5	09-379-34	10	10-9-24
HA-B-6-S-6	09-379-35	10	10-9-24





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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Chain of Custody

Page 1 of 4

Company: HA

Project Number: 0209066-000

Project Name: Everett smelter

Project Manager: Andrew Kaparos

Sampled by: Ghans Sebbane

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)

☐ _____ (other)

Laboratory Number: **09-379**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 ☐ 8260 ☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total PCBs Metals ☒	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
1	HA-B-1-S-3	9-27-24	1445	Soil	5			X	X	X			X						X				X
2	HA-B-1-S-5	9-27-24	1510		5			X	X	X			X						X				X
3	HA-B-1-S-6	9-27-24	1530		5																		
4	HA-B-1-S-7	9-27-24	1545		5																		
5	HA-B-1-S-9	9-27-24	1640		5																		
6	HA-FD-1#	9-27-24	1400		5			X	X	X			X						X				X
7	HA-B-2-S-2	9-27-24	0810		5			X	X	X			X						X				X
8	HA-B-2-S-3	9-27-24	0835		5																		
9	HA-B-2-S-5	9-27-24	0900		5			X	X	X			X						X				X
10	HA-B-2-S-7	9-27-24	0920		5																		

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>Ghans Sebbane</u>	<u>HA</u>	<u>9-30-24</u>	<u>0910</u>	<u>X-Added 10/8/24, DB (STA)</u> <u>ON Hold check</u> <u>with PM for</u> <u>Analysis</u> <u>*As, Cd, Cu, Cr, Pb, Hg, Ni, Zn</u> Data Package: Standard ☐ Level III ☐ Level IV ☐ Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐
Received	<u>Andrew Kaparos</u>	<u>OSG</u>	<u>9/30/24</u>	<u>0910</u>	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			

Chain of Custody

Page 2 of 4

Company: <u>HA</u> Project Number: <u>0209066-000</u> Project Name: <u>Everett Smelter</u> Project Manager: <u>Andrew Kaparos</u> Sampled by: <u>Bhavi Sebban</u>			Turnaround Request (in working days) (Check One) ☐ Same Day ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ Standard (7 Days) ☐ _____ (other)			Laboratory Number: 09-379																																																																																																																																																																																																																																													
			Number of Containers			<table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <tr> <td>NWTPH-HCID</td><td>NWTPH-Gx/BTEX (8021 ☐ 8260 ☐</td><td>NWTPH-Gx</td><td>NWTPH-Dx (SG Clean-up ☐)</td><td>Volatiles 8260</td><td>Halogenated Volatiles 8260</td><td>EDB EPA 8011 (Waters Only)</td><td>Semivolatiles 8270/SIM (with low-level PAHs)</td><td>PAHs 8270/SIM (low-level)</td><td>PCBs 8082</td><td>Organochlorine Pesticides 8081</td><td>Organophosphorus Pesticides 8270/SIM</td><td>Chlorinated Acid Herbicides 8151</td><td>Total PCRA Metals *</td><td>Total MTCA Metals</td><td>TCLP Metals</td><td>HEM (oil and grease) 1664</td><td></td><td></td><td></td><td></td><td>% Moisture</td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>11</td><td>HA-B-2-S-8</td><td>9-27-24</td><td>0930</td><td>SOIL</td><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>12</td><td>HA-B-2-S-9</td><td>9-27-24</td><td>1005</td><td></td><td>5</td><td></td><td>X</td><td>X</td><td>X</td><td></td><td>X</td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr> <td>13</td><td>HA-B-3-S-3</td><td>9-27-24</td><td>1130</td><td></td><td>5</td><td></td><td>X</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr> <td>14</td><td>HA-B-3-S-5</td><td>9-27-24</td><td>1150</td><td></td><td>5</td><td></td><td>X</td><td>X</td><td>X</td><td></td><td>X</td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr> <td>15</td><td>HA-B-3-S-6</td><td>9-27-24</td><td>1200</td><td></td><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>16</td><td>HA-B-3-S-7</td><td>9-27-24</td><td>1220</td><td></td><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>17</td><td>HA-B-3-S-8</td><td>9-27-24</td><td>1235</td><td></td><td>5</td><td></td><td>X</td><td>X</td><td>X</td><td></td><td>X</td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr> <td>18</td><td>HA-B-3-S-9</td><td>9-27-24</td><td>1300</td><td></td><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																		NWTPH-HCID	NWTPH-Gx/BTEX (8021 ☐ 8260 ☐	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total PCRA Metals *	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture																							11	HA-B-2-S-8	9-27-24	0930	SOIL	5																	12	HA-B-2-S-9	9-27-24	1005		5		X	X	X		X			X							X	13	HA-B-3-S-3	9-27-24	1130		5		X	X	X		X	X	X								X	14	HA-B-3-S-5	9-27-24	1150		5		X	X	X		X			X							X	15	HA-B-3-S-6	9-27-24	1200		5																	16	HA-B-3-S-7	9-27-24	1220		5																	17	HA-B-3-S-8	9-27-24	1235		5		X	X	X		X			X							X	18	HA-B-3-S-9	9-27-24	1300		5																
NWTPH-HCID	NWTPH-Gx/BTEX (8021 ☐ 8260 ☐	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total PCRA Metals *	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture																																																																																																																																																																																																																														
11	HA-B-2-S-8	9-27-24	0930	SOIL	5																																																																																																																																																																																																																																														
12	HA-B-2-S-9	9-27-24	1005		5		X	X	X		X			X							X																																																																																																																																																																																																																														
13	HA-B-3-S-3	9-27-24	1130		5		X	X	X		X	X	X								X																																																																																																																																																																																																																														
14	HA-B-3-S-5	9-27-24	1150		5		X	X	X		X			X							X																																																																																																																																																																																																																														
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Chain of Custody

Page 3 of 4

Company: HA
Project Number: 0209066-000
Project Name: Everett Smelter
Project Manager: Andrew Kaparos
Sampled by: Ghani Sebbane

Turnaround Request (in working days)	
(Check One)	
☐ Same Day	☐ 1 Day
☐ 2 Days	☐ 3 Days
☒ Standard (7 Days)	
☐ _____ (other)	

Laboratory Number: **09-379**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 ☐ 8260 ☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total Heavy Metals ☒	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
19	HA-B-4-S-1	9-26-24	0910	Soil	5			X	X	X			X		X	X			X				X
20	HA-B-4-S-2	9-26-24	1000		5																		
21	HA-B-4-S-3	9-26-24	1020		5			X	X	X			X						X				X
22	HA-B-4-S-4	9-26-24	1040		5																		
23	HA-B-4-S-5A	9-26-24	1050		5																		
24	HA-B-4-S-6	9-26-24	1105		5																		
25	HA-B-4-S-7	9-26-24	1120		5																		
26	HA-B-4-S-8	9-26-24	1130		5			X	X	X			X						X				X
27	HA-B-4-S-9	9-26-24	1200	V	5																		
28	HA-B-4-S-5B	9-26-24	1055		5																		

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	Apol/char & Wm Cadan Prill	HA	9-30-24	0910	on Hold check with PM for Analysis DB
Received		OSE	9/30/24	0910	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date	Reviewed/Date		Data Package: Standard ☐ Level III ☐ Level IV ☐ Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐		



OnSite Environmental Inc.

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

Chain of Custody

Page 4 of 4

Company: HA

Project Number: 0209066-000

Project Name: Everett Smelter

Project Manager: Andrew Kaparos

Sampled by: Ghani Sebbane

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)

☐ _____ (other)

Laboratory Number: **09-379**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 ☐ 8260 ☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total PCBs Metals *	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
29	HA-B-5-S-2	9-26-24	1330	I	5			X	X	X			X		X	X			X				X
30	HA-B-5-S-3	9-26-24	1340		5			X	X	X			X						X				X
31	HA-B-5-S-5	9-26-24	1410		5																		
32	HA-B-5-S-6	9-26-24	1440		5			X	X	X			X						X				X
33	HA-B-6-S-3	9-26-24	1600		5			X	X	X			X						X				X
34	HA-B-6-S-5	9-26-24	1620		5			X	X	X			X						X				X
35	HA-B-6-S-6	9-26-24	1650	V	5			X	X	X			X						X				X
36	HA-TB	—	—	W	4																		

Signature	Company	Date	Time	Comments/Special Instructions
<u>Abdullah Sebbane</u>	<u>HA</u>	<u>9-26-24</u>	<u>0910</u>	<u>on hold check with PM for analysis</u>
<u>Chad "Pul"</u>	<u>OSI</u>	<u>9/30/24</u>	<u>0910</u>	
Relinquished				Data Package: Standard ☐ Level III ☐ Level IV ☐
Received				
Relinquished				Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐
Received				
Relinquished				
Received				
Reviewed/Date	Reviewed/Date			



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October 23, 2024

Andrew Kaparos
Hart Crowser, Inc.
A Division of Haley & Aldrich, Inc.
3131 Elliott Avenue, Suite 600
Seattle, WA 98121

Re: Analytical Data for Project 0209066-000
Laboratory Reference No. 2410-140

Dear Andrew:

Enclosed are the analytical results and associated quality control data for samples submitted on October 9, 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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 23, 2024
Samples Submitted: October 9, 2024
Laboratory Reference: 2410-140
Project: 0209066-000

Case Narrative

Samples were collected on October 4, 2024 and received by the laboratory on October 9, 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 value reported for Acetone in sample HA24-TP1-15 exceeds the calibration range and is therefore an estimate. The sample was re-analyzed at the lowest possible dilution allowed by Method 5035A with non-detect results for Acetone.

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: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP6-5.0					
Laboratory ID:	10-140-01					
Gasoline	ND	5.8	NWTPH-Gx	10-14-24	10-14-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	93	62-134				
Client ID:	HA24-TP6-10					
Laboratory ID:	10-140-02					
Gasoline	ND	7.6	NWTPH-Gx	10-14-24	10-14-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	83	62-134				
Client ID:	HA24-TP6-15					
Laboratory ID:	10-140-03					
Gasoline	ND	11	NWTPH-Gx	10-14-24	10-14-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	77	62-134				
Client ID:	HA24-TP1-5.0					
Laboratory ID:	10-140-04					
Gasoline	ND	6.5	NWTPH-Gx	10-14-24	10-14-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	85	62-134				
Client ID:	HA24-TP1-15					
Laboratory ID:	10-140-06					
Gasoline	ND	7.5	NWTPH-Gx	10-14-24	10-14-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	78	62-134				
Client ID:	HA24-TP2-10					
Laboratory ID:	10-140-08					
Gasoline	ND	3.5	NWTPH-Gx	10-14-24	10-14-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	90	62-134				
Client ID:	HA24-TP3-5.0					
Laboratory ID:	10-140-10					
Gasoline	ND	3.8	NWTPH-Gx	10-14-24	10-14-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	85	62-134				



Date of Report: October 23, 2024
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GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP3-10					
Laboratory ID:	10-140-11					
Gasoline	ND	3.8	NWTPH-Gx	10-14-24	10-14-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	86	62-134				
Client ID:	HA24-TP4-5.0					
Laboratory ID:	10-140-13					
Gasoline	ND	2.9	NWTPH-Gx	10-14-24	10-14-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	86	62-134				
Client ID:	HA24-TP4-10					
Laboratory ID:	10-140-14					
Gasoline	ND	6.4	NWTPH-Gx	10-14-24	10-14-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	86	62-134				
Client ID:	HA24-TP5-5.0					
Laboratory ID:	10-140-16					
Gasoline	ND	4.0	NWTPH-Gx	10-14-24	10-14-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	86	62-134				
Client ID:	HA24-TP5-10					
Laboratory ID:	10-140-17					
Gasoline	ND	3.7	NWTPH-Gx	10-14-24	10-14-24	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	90	62-134				



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

**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:	MB1014S1					
Gasoline	ND	5.0	NWTPH-Gx	10-14-24	10-14-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	62-134				
Laboratory ID:	MB1014S2					
Gasoline	ND	5.0	NWTPH-Gx	10-14-24	10-14-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	81	62-134				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	10-140-01									
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						93	90	62-134		
Laboratory ID:	10-140-02									
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						83	81	62-134		



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP6-5.0					
Laboratory ID:	10-140-01					
Diesel Range Organics	ND	29	NWTPH-Dx	10-14-24	10-14-24	
Lube Oil	78	58	NWTPH-Dx	10-14-24	10-14-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	81	50-150				

Client ID:	HA24-TP6-10					
Laboratory ID:	10-140-02					
Diesel Range Organics	110	38	NWTPH-Dx	10-14-24	10-14-24	N
Lube Oil	790	75	NWTPH-Dx	10-14-24	10-14-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				

Client ID:	HA24-TP6-15					
Laboratory ID:	10-140-03					
Diesel Range Organics	ND	38	NWTPH-Dx	10-14-24	10-14-24	
Lube Oil Range Organics	170	75	NWTPH-Dx	10-14-24	10-14-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				

Client ID:	HA24-TP1-5.0					
Laboratory ID:	10-140-04					
Diesel Range Organics	ND	28	NWTPH-Dx	10-14-24	10-14-24	
Lube Oil Range Organics	ND	57	NWTPH-Dx	10-14-24	10-14-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	63	50-150				

Client ID:	HA24-TP1-15					
Laboratory ID:	10-140-06					
Diesel Range Organics	270	160	NWTPH-Dx	10-14-24	10-14-24	N
Lube Oil	3800	330	NWTPH-Dx	10-14-24	10-14-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	108	50-150				

Client ID:	HA24-TP2-10					
Laboratory ID:	10-140-08					
Diesel Range Organics	ND	28	NWTPH-Dx	10-14-24	10-14-24	
Lube Oil Range Organics	ND	56	NWTPH-Dx	10-14-24	10-14-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	73	50-150				



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP3-5.0					
Laboratory ID:	10-140-10					
Diesel Range Organics	ND	27	NWTPH-Dx	10-14-24	10-14-24	
Lube Oil Range Organics	ND	55	NWTPH-Dx	10-14-24	10-14-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	72	50-150				

Client ID:	HA24-TP3-10					
Laboratory ID:	10-140-11					
Diesel Range Organics	ND	28	NWTPH-Dx	10-14-24	10-14-24	
Lube Oil Range Organics	ND	56	NWTPH-Dx	10-14-24	10-14-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				

Client ID:	HA24-TP4-5.0					
Laboratory ID:	10-140-13					
Diesel Range Organics	ND	28	NWTPH-Dx	10-14-24	10-14-24	
Lube Oil Range Organics	ND	55	NWTPH-Dx	10-14-24	10-14-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	67	50-150				

Client ID:	HA24-TP4-10					
Laboratory ID:	10-140-14					
Diesel Range Organics	ND	28	NWTPH-Dx	10-14-24	10-14-24	
Lube Oil Range Organics	ND	55	NWTPH-Dx	10-14-24	10-14-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	81	50-150				

Client ID:	HA24-TP5-5.0					
Laboratory ID:	10-140-16					
Diesel Range Organics	ND	28	NWTPH-Dx	10-14-24	10-14-24	
Lube Oil Range Organics	ND	56	NWTPH-Dx	10-14-24	10-14-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				

Client ID:	HA24-TP5-10					
Laboratory ID:	10-140-17					
Diesel Range Organics	ND	28	NWTPH-Dx	10-14-24	10-14-24	
Lube Oil Range Organics	ND	56	NWTPH-Dx	10-14-24	10-14-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	70	50-150				



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

**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:	MB1014S1					
Diesel Range Organics	ND	25	NWTPH-Dx	10-14-24	10-14-24	
Lube Oil Range Organics	ND	50	NWTPH-Dx	10-14-24	10-14-24	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	90	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	10-140-01									
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	40	
Lube Oil	67.5	ND	NA	NA		NA	NA	NA	40	
Surrogate:										
o-Terphenyl						81	70	50-150		
Laboratory ID: 10-179-04										
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	40	
Lube Oil	51.0	48.3	NA	NA		NA	NA	5	40	
Surrogate:										
o-Terphenyl						78	80	50-150		

SPIKE BLANK

Laboratory ID:	SB1014S1						
Diesel Fuel #2	79.8	100	NA	80	49-127	NA	NA
Surrogate:							
<i>o</i> -Terphenyl				85	50-150		



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP6-5.0					
Laboratory ID:	10-140-01					
Dichlorodifluoromethane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Chloromethane	ND	0.0031	EPA 8260D	10-12-24	10-12-24	
Vinyl Chloride	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Bromomethane	ND	0.0031	EPA 8260D	10-12-24	10-12-24	
Chloroethane	ND	0.0031	EPA 8260D	10-12-24	10-12-24	
Trichlorofluoromethane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Acetone	0.059	0.0062	EPA 8260D	10-12-24	10-12-24	Y
Iodomethane	ND	0.0062	EPA 8260D	10-12-24	10-12-24	
Carbon Disulfide	0.00067	0.00062	EPA 8260D	10-12-24	10-12-24	
Methylene Chloride	ND	0.0031	EPA 8260D	10-12-24	10-12-24	
(trans) 1,2-Dichloroethene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Methyl t-Butyl Ether	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Vinyl Acetate	ND	0.0031	EPA 8260D	10-12-24	10-12-24	
2,2-Dichloropropane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
(cis) 1,2-Dichloroethene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
2-Butanone	0.0078	0.0031	EPA 8260D	10-12-24	10-12-24	Y
Bromochloromethane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Chloroform	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,1,1-Trichloroethane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Carbon Tetrachloride	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloropropene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Benzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloroethane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Trichloroethene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloropropane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Dibromomethane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Bromodichloromethane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260D	10-12-24	10-12-24	
(cis) 1,3-Dichloropropene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Methyl Isobutyl Ketone	ND	0.0031	EPA 8260D	10-12-24	10-12-24	
Toluene	ND	0.0031	EPA 8260D	10-12-24	10-12-24	



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 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP6-5.0					
Laboratory ID:	10-140-01					
(trans) 1,3-Dichloropropene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,1,2-Trichloroethane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Tetrachloroethene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,3-Dichloropropane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
2-Hexanone	ND	0.0031	EPA 8260D	10-12-24	10-12-24	
Dibromochloromethane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromoethane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Chlorobenzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,1,1,2-Tetrachloroethane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Ethylbenzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
m,p-Xylene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
o-Xylene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Styrene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Bromoform	ND	0.0031	EPA 8260D	10-12-24	10-12-24	
Isopropylbenzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Bromobenzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,1,2,2-Tetrachloroethane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichloropropane	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
n-Propylbenzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
2-Chlorotoluene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
4-Chlorotoluene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,3,5-Trimethylbenzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
tert-Butylbenzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trimethylbenzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
sec-Butylbenzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,3-Dichlorobenzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
p-Isopropyltoluene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,4-Dichlorobenzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,2-Dichlorobenzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
n-Butylbenzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromo-3-chloropropane	ND	0.0031	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trichlorobenzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Hexachlorobutadiene	ND	0.0031	EPA 8260D	10-12-24	10-12-24	
Naphthalene	ND	0.0031	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichlorobenzene	ND	0.00062	EPA 8260D	10-12-24	10-12-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	99	69-124				
Toluene-d8	101	80-118				
4-Bromofluorobenzene	102	75-123				



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP6-10					
Laboratory ID:	10-140-02					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Chloromethane	ND	0.0062	EPA 8260D	10-12-24	10-12-24	
Vinyl Chloride	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Bromomethane	ND	0.0062	EPA 8260D	10-12-24	10-12-24	
Chloroethane	ND	0.0062	EPA 8260D	10-12-24	10-12-24	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Acetone	0.15	0.012	EPA 8260D	10-12-24	10-12-24	Y
Iodomethane	ND	0.012	EPA 8260D	10-12-24	10-12-24	
Carbon Disulfide	0.0055	0.0012	EPA 8260D	10-12-24	10-12-24	
Methylene Chloride	ND	0.0062	EPA 8260D	10-12-24	10-12-24	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Vinyl Acetate	ND	0.0062	EPA 8260D	10-12-24	10-12-24	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
2-Butanone	0.023	0.0062	EPA 8260D	10-12-24	10-12-24	Y
Bromochloromethane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Chloroform	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Benzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Trichloroethene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Dibromomethane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Bromodichloromethane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
2-Chloroethyl Vinyl Ether	ND	0.012	EPA 8260D	10-12-24	10-12-24	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Methyl Isobutyl Ketone	ND	0.0062	EPA 8260D	10-12-24	10-12-24	
Toluene	ND	0.0062	EPA 8260D	10-12-24	10-12-24	



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP6-10					
Laboratory ID:	10-140-02					
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Tetrachloroethene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
2-Hexanone	ND	0.0062	EPA 8260D	10-12-24	10-12-24	
Dibromochloromethane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Chlorobenzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Ethylbenzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
m,p-Xylene	ND	0.0025	EPA 8260D	10-12-24	10-12-24	
o-Xylene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Styrene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Bromoform	ND	0.0062	EPA 8260D	10-12-24	10-12-24	
Isopropylbenzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Bromobenzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
n-Propylbenzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
2-Chlorotoluene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
4-Chlorotoluene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
tert-Butylbenzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
sec-Butylbenzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
n-Butylbenzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Hexachlorobutadiene	ND	0.0062	EPA 8260D	10-12-24	10-12-24	
Naphthalene	ND	0.0062	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	100	69-124				
Toluene-d8	101	80-118				
4-Bromofluorobenzene	101	75-123				



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		HA24-TP6-15				
Laboratory ID:		10-140-03				
Dichlorodifluoromethane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Chloromethane	ND	0.0046	EPA 8260D	10-12-24	10-12-24	
Vinyl Chloride	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Bromomethane	ND	0.0046	EPA 8260D	10-12-24	10-12-24	
Chloroethane	ND	0.0046	EPA 8260D	10-12-24	10-12-24	
Trichlorofluoromethane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Acetone	0.018	0.0092	EPA 8260D	10-12-24	10-12-24	Y
Iodomethane	ND	0.0092	EPA 8260D	10-12-24	10-12-24	
Carbon Disulfide	0.0031	0.00092	EPA 8260D	10-12-24	10-12-24	
Methylene Chloride	ND	0.0046	EPA 8260D	10-12-24	10-12-24	
(trans) 1,2-Dichloroethene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Methyl t-Butyl Ether	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Vinyl Acetate	ND	0.0046	EPA 8260D	10-12-24	10-12-24	
2,2-Dichloropropane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
(cis) 1,2-Dichloroethene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
2-Butanone	ND	0.0046	EPA 8260D	10-12-24	10-12-24	
Bromochloromethane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Chloroform	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,1,1-Trichloroethane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Carbon Tetrachloride	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloropropene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Benzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloroethane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Trichloroethene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloropropane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Dibromomethane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Bromodichloromethane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
2-Chloroethyl Vinyl Ether	ND	0.0092	EPA 8260D	10-12-24	10-12-24	
(cis) 1,3-Dichloropropene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Methyl Isobutyl Ketone	ND	0.0046	EPA 8260D	10-12-24	10-12-24	
Toluene	ND	0.0046	EPA 8260D	10-12-24	10-12-24	



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		HA24-TP6-15				
Laboratory ID:		10-140-03				
(trans) 1,3-Dichloropropene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,1,2-Trichloroethane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Tetrachloroethene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,3-Dichloropropane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
2-Hexanone	ND	0.0046	EPA 8260D	10-12-24	10-12-24	
Dibromochloromethane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromoethane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Chlorobenzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,1,1,2-Tetrachloroethane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Ethylbenzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
m,p-Xylene	ND	0.0018	EPA 8260D	10-12-24	10-12-24	
o-Xylene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Styrene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Bromoform	ND	0.0046	EPA 8260D	10-12-24	10-12-24	
Isopropylbenzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Bromobenzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,1,2,2-Tetrachloroethane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichloropropane	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
n-Propylbenzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
2-Chlorotoluene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
4-Chlorotoluene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,3,5-Trimethylbenzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
tert-Butylbenzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trimethylbenzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
sec-Butylbenzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,3-Dichlorobenzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
p-Isopropyltoluene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,4-Dichlorobenzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,2-Dichlorobenzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
n-Butylbenzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trichlorobenzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Hexachlorobutadiene	ND	0.0046	EPA 8260D	10-12-24	10-12-24	
Naphthalene	ND	0.0046	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichlorobenzene	ND	0.00092	EPA 8260D	10-12-24	10-12-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	69-124				
Toluene-d8	104	80-118				
4-Bromofluorobenzene	103	75-123				



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		HA24-TP1-5.0				
Laboratory ID:		10-140-04				
Dichlorodifluoromethane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Chloromethane	ND	0.0036	EPA 8260D	10-12-24	10-12-24	
Vinyl Chloride	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Bromomethane	ND	0.0036	EPA 8260D	10-12-24	10-12-24	
Chloroethane	ND	0.0036	EPA 8260D	10-12-24	10-12-24	
Trichlorofluoromethane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Acetone	ND	0.0072	EPA 8260D	10-12-24	10-12-24	
Iodomethane	ND	0.0072	EPA 8260D	10-12-24	10-12-24	
Carbon Disulfide	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Methylene Chloride	ND	0.0036	EPA 8260D	10-12-24	10-12-24	
(trans) 1,2-Dichloroethene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Methyl t-Butyl Ether	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Vinyl Acetate	ND	0.0036	EPA 8260D	10-12-24	10-12-24	
2,2-Dichloropropane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
(cis) 1,2-Dichloroethene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
2-Butanone	ND	0.0036	EPA 8260D	10-12-24	10-12-24	
Bromochloromethane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Chloroform	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,1,1-Trichloroethane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Carbon Tetrachloride	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloropropene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Benzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloroethane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Trichloroethene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloropropane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Dibromomethane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Bromodichloromethane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
2-Chloroethyl Vinyl Ether	ND	0.0072	EPA 8260D	10-12-24	10-12-24	
(cis) 1,3-Dichloropropene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Methyl Isobutyl Ketone	ND	0.0036	EPA 8260D	10-12-24	10-12-24	
Toluene	ND	0.0036	EPA 8260D	10-12-24	10-12-24	



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP1-5.0					
Laboratory ID:	10-140-04					
(trans) 1,3-Dichloropropene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,1,2-Trichloroethane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Tetrachloroethene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,3-Dichloropropane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
2-Hexanone	ND	0.0036	EPA 8260D	10-12-24	10-12-24	
Dibromochloromethane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromoethane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Chlorobenzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,1,1,2-Tetrachloroethane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Ethylbenzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
m,p-Xylene	ND	0.0014	EPA 8260D	10-12-24	10-12-24	
o-Xylene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Styrene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Bromoform	ND	0.0036	EPA 8260D	10-12-24	10-12-24	
Isopropylbenzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Bromobenzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,1,2,2-Tetrachloroethane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichloropropane	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
n-Propylbenzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
2-Chlorotoluene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
4-Chlorotoluene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,3,5-Trimethylbenzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
tert-Butylbenzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trimethylbenzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
sec-Butylbenzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,3-Dichlorobenzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
p-Isopropyltoluene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,4-Dichlorobenzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,2-Dichlorobenzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
n-Butylbenzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromo-3-chloropropane	ND	0.0036	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trichlorobenzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Hexachlorobutadiene	ND	0.0036	EPA 8260D	10-12-24	10-12-24	
Naphthalene	ND	0.0036	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichlorobenzene	ND	0.00072	EPA 8260D	10-12-24	10-12-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	100	69-124				
Toluene-d8	98	80-118				
4-Bromofluorobenzene	97	75-123				



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		HA24-TP1-15				
Laboratory ID:		10-140-06				
Dichlorodifluoromethane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Chloromethane	ND	0.0048	EPA 8260D	10-12-24	10-12-24	
Vinyl Chloride	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Bromomethane	ND	0.0048	EPA 8260D	10-12-24	10-12-24	
Chloroethane	ND	0.0048	EPA 8260D	10-12-24	10-12-24	
Trichlorofluoromethane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Acetone	0.25	0.0097	EPA 8260D	10-12-24	10-12-24	Y,E
Iodomethane	ND	0.0097	EPA 8260D	10-12-24	10-12-24	
Carbon Disulfide	0.0010	0.00097	EPA 8260D	10-12-24	10-12-24	
Methylene Chloride	ND	0.0048	EPA 8260D	10-12-24	10-12-24	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Methyl t-Butyl Ether	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Vinyl Acetate	ND	0.0048	EPA 8260D	10-12-24	10-12-24	
2,2-Dichloropropane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
2-Butanone	0.042	0.0048	EPA 8260D	10-12-24	10-12-24	Y
Bromochloromethane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Chloroform	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Carbon Tetrachloride	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloropropene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Benzene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloroethane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Trichloroethene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloropropane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Dibromomethane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Bromodichloromethane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
2-Chloroethyl Vinyl Ether	ND	0.0097	EPA 8260D	10-12-24	10-12-24	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Methyl Isobutyl Ketone	ND	0.0048	EPA 8260D	10-12-24	10-12-24	
Toluene	ND	0.0048	EPA 8260D	10-12-24	10-12-24	



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP1-15					
Laboratory ID:	10-140-06					
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,1,2-Trichloroethane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Tetrachloroethene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,3-Dichloropropane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
2-Hexanone	ND	0.0048	EPA 8260D	10-12-24	10-12-24	
Dibromochloromethane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromoethane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Chlorobenzene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Ethylbenzene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
m,p-Xylene	ND	0.0019	EPA 8260D	10-12-24	10-12-24	
o-Xylene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Styrene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Bromoform	ND	0.0048	EPA 8260D	10-12-24	10-12-24	
Isopropylbenzene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Bromobenzene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
n-Propylbenzene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
2-Chlorotoluene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
4-Chlorotoluene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,3,5-Trimethylbenzene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
tert-Butylbenzene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trimethylbenzene	0.0011	0.00097	EPA 8260D	10-12-24	10-12-24	
sec-Butylbenzene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
p-Isopropyltoluene	0.0013	0.00097	EPA 8260D	10-12-24	10-12-24	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
n-Butylbenzene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Hexachlorobutadiene	ND	0.0048	EPA 8260D	10-12-24	10-12-24	
Naphthalene	0.0082	0.0048	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260D	10-12-24	10-12-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	99	69-124				
Toluene-d8	102	80-118				
4-Bromofluorobenzene	98	75-123				



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		HA24-TP2-10				
Laboratory ID:		10-140-08				
Dichlorodifluoromethane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Chloromethane	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Vinyl Chloride	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Bromomethane	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Chloroethane	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Trichlorofluoromethane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Acetone	ND	0.0053	EPA 8260D	10-12-24	10-12-24	
Iodomethane	ND	0.0053	EPA 8260D	10-12-24	10-12-24	
Carbon Disulfide	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Methylene Chloride	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
(trans) 1,2-Dichloroethene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Methyl t-Butyl Ether	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Vinyl Acetate	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
2,2-Dichloropropane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
(cis) 1,2-Dichloroethene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
2-Butanone	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Bromochloromethane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Chloroform	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,1,1-Trichloroethane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Carbon Tetrachloride	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloropropene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Benzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloroethane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Trichloroethene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloropropane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Dibromomethane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Bromodichloromethane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260D	10-12-24	10-12-24	
(cis) 1,3-Dichloropropene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Methyl Isobutyl Ketone	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Toluene	ND	0.0027	EPA 8260D	10-12-24	10-12-24	



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP2-10					
Laboratory ID:	10-140-08					
(trans) 1,3-Dichloropropene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,1,2-Trichloroethane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Tetrachloroethene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,3-Dichloropropane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
2-Hexanone	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Dibromochloromethane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromoethane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Chlorobenzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,1,1,2-Tetrachloroethane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Ethylbenzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
m,p-Xylene	ND	0.0011	EPA 8260D	10-12-24	10-12-24	
o-Xylene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Styrene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Bromoform	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Isopropylbenzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Bromobenzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,1,2,2-Tetrachloroethane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichloropropane	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
n-Propylbenzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
2-Chlorotoluene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
4-Chlorotoluene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,3,5-Trimethylbenzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
tert-Butylbenzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trimethylbenzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
sec-Butylbenzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,3-Dichlorobenzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
p-Isopropyltoluene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,4-Dichlorobenzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,2-Dichlorobenzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
n-Butylbenzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromo-3-chloropropane	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trichlorobenzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Hexachlorobutadiene	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Naphthalene	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichlorobenzene	ND	0.00053	EPA 8260D	10-12-24	10-12-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	105	69-124				
Toluene-d8	105	80-118				
4-Bromofluorobenzene	105	75-123				



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		HA24-TP3-5.0				
Laboratory ID:		10-140-10				
Dichlorodifluoromethane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Chloromethane	ND	0.0034	EPA 8260D	10-12-24	10-12-24	
Vinyl Chloride	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Bromomethane	ND	0.0034	EPA 8260D	10-12-24	10-12-24	
Chloroethane	ND	0.0034	EPA 8260D	10-12-24	10-12-24	
Trichlorofluoromethane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Acetone	ND	0.0069	EPA 8260D	10-12-24	10-12-24	
Iodomethane	ND	0.0069	EPA 8260D	10-12-24	10-12-24	
Carbon Disulfide	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Methylene Chloride	ND	0.0034	EPA 8260D	10-12-24	10-12-24	
(trans) 1,2-Dichloroethene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Methyl t-Butyl Ether	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Vinyl Acetate	ND	0.0034	EPA 8260D	10-12-24	10-12-24	
2,2-Dichloropropane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
(cis) 1,2-Dichloroethene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
2-Butanone	ND	0.0034	EPA 8260D	10-12-24	10-12-24	
Bromochloromethane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Chloroform	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,1,1-Trichloroethane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Carbon Tetrachloride	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloropropene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Benzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloroethane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Trichloroethene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloropropane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Dibromomethane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Bromodichloromethane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260D	10-12-24	10-12-24	
(cis) 1,3-Dichloropropene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Methyl Isobutyl Ketone	ND	0.0034	EPA 8260D	10-12-24	10-12-24	
Toluene	ND	0.0034	EPA 8260D	10-12-24	10-12-24	



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP3-5.0					
Laboratory ID:	10-140-10					
(trans) 1,3-Dichloropropene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,1,2-Trichloroethane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Tetrachloroethene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,3-Dichloropropane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
2-Hexanone	ND	0.0034	EPA 8260D	10-12-24	10-12-24	
Dibromochloromethane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromoethane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Chlorobenzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,1,1,2-Tetrachloroethane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Ethylbenzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
m,p-Xylene	ND	0.0014	EPA 8260D	10-12-24	10-12-24	
o-Xylene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Styrene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Bromoform	ND	0.0034	EPA 8260D	10-12-24	10-12-24	
Isopropylbenzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Bromobenzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,1,2,2-Tetrachloroethane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichloropropane	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
n-Propylbenzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
2-Chlorotoluene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
4-Chlorotoluene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,3,5-Trimethylbenzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
tert-Butylbenzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trimethylbenzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
sec-Butylbenzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,3-Dichlorobenzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
p-Isopropyltoluene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,4-Dichlorobenzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,2-Dichlorobenzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
n-Butylbenzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromo-3-chloropropane	ND	0.0034	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trichlorobenzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Hexachlorobutadiene	ND	0.0034	EPA 8260D	10-12-24	10-12-24	
Naphthalene	ND	0.0034	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichlorobenzene	ND	0.00069	EPA 8260D	10-12-24	10-12-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	100	69-124				
Toluene-d8	104	80-118				
4-Bromofluorobenzene	105	75-123				



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP3-10					
Laboratory ID:	10-140-11					
Dichlorodifluoromethane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Chloromethane	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Vinyl Chloride	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Bromomethane	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Chloroethane	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Trichlorofluoromethane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Acetone	0.0090	0.0061	EPA 8260D	10-12-24	10-12-24	Y
Iodomethane	ND	0.0061	EPA 8260D	10-12-24	10-12-24	
Carbon Disulfide	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Methylene Chloride	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
(trans) 1,2-Dichloroethene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Methyl t-Butyl Ether	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Vinyl Acetate	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
2,2-Dichloropropane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
(cis) 1,2-Dichloroethene	0.0016	0.00061	EPA 8260D	10-12-24	10-12-24	
2-Butanone	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Bromochloromethane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Chloroform	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,1,1-Trichloroethane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Carbon Tetrachloride	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloropropene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Benzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloroethane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Trichloroethene	0.0025	0.00061	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloropropane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Dibromomethane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Bromodichloromethane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260D	10-12-24	10-12-24	
(cis) 1,3-Dichloropropene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Methyl Isobutyl Ketone	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Toluene	ND	0.0030	EPA 8260D	10-12-24	10-12-24	



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP3-10					
Laboratory ID:	10-140-11					
(trans) 1,3-Dichloropropene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,1,2-Trichloroethane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Tetrachloroethene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,3-Dichloropropane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
2-Hexanone	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Dibromochloromethane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromoethane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Chlorobenzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,1,1,2-Tetrachloroethane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Ethylbenzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
m,p-Xylene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
o-Xylene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Styrene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Bromoform	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Isopropylbenzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Bromobenzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,1,2,2-Tetrachloroethane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichloropropane	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
n-Propylbenzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
2-Chlorotoluene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
4-Chlorotoluene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,3,5-Trimethylbenzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
tert-Butylbenzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trimethylbenzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
sec-Butylbenzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,3-Dichlorobenzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
p-Isopropyltoluene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,4-Dichlorobenzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,2-Dichlorobenzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
n-Butylbenzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromo-3-chloropropane	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trichlorobenzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Hexachlorobutadiene	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Naphthalene	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichlorobenzene	ND	0.00061	EPA 8260D	10-12-24	10-12-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	99	69-124				
Toluene-d8	103	80-118				
4-Bromofluorobenzene	101	75-123				



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		HA24-TP4-5.0				
Laboratory ID:		10-140-13				
Dichlorodifluoromethane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Chloromethane	ND	0.0023	EPA 8260D	10-12-24	10-12-24	
Vinyl Chloride	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Bromomethane	ND	0.0023	EPA 8260D	10-12-24	10-12-24	
Chloroethane	ND	0.0023	EPA 8260D	10-12-24	10-12-24	
Trichlorofluoromethane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Acetone	ND	0.0046	EPA 8260D	10-12-24	10-12-24	
Iodomethane	ND	0.0046	EPA 8260D	10-12-24	10-12-24	
Carbon Disulfide	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Methylene Chloride	ND	0.0023	EPA 8260D	10-12-24	10-12-24	
(trans) 1,2-Dichloroethene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Methyl t-Butyl Ether	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Vinyl Acetate	ND	0.0023	EPA 8260D	10-12-24	10-12-24	
2,2-Dichloropropane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
(cis) 1,2-Dichloroethene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
2-Butanone	ND	0.0023	EPA 8260D	10-12-24	10-12-24	
Bromochloromethane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Chloroform	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,1,1-Trichloroethane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Carbon Tetrachloride	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloropropene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Benzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloroethane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Trichloroethene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloropropane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Dibromomethane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Bromodichloromethane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260D	10-12-24	10-12-24	
(cis) 1,3-Dichloropropene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Methyl Isobutyl Ketone	ND	0.0023	EPA 8260D	10-12-24	10-12-24	
Toluene	ND	0.0023	EPA 8260D	10-12-24	10-12-24	



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP4-5.0					
Laboratory ID:	10-140-13					
(trans) 1,3-Dichloropropene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,1,2-Trichloroethane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Tetrachloroethene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,3-Dichloropropane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
2-Hexanone	ND	0.0023	EPA 8260D	10-12-24	10-12-24	
Dibromochloromethane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromoethane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Chlorobenzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,1,1,2-Tetrachloroethane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Ethylbenzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
m,p-Xylene	ND	0.00093	EPA 8260D	10-12-24	10-12-24	
o-Xylene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Styrene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Bromoform	ND	0.0023	EPA 8260D	10-12-24	10-12-24	
Isopropylbenzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Bromobenzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,1,2,2-Tetrachloroethane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichloropropane	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
n-Propylbenzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
2-Chlorotoluene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
4-Chlorotoluene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,3,5-Trimethylbenzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
tert-Butylbenzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trimethylbenzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
sec-Butylbenzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,3-Dichlorobenzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
p-Isopropyltoluene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,4-Dichlorobenzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,2-Dichlorobenzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
n-Butylbenzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromo-3-chloropropane	ND	0.0023	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trichlorobenzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Hexachlorobutadiene	ND	0.0023	EPA 8260D	10-12-24	10-12-24	
Naphthalene	ND	0.0023	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichlorobenzene	ND	0.00046	EPA 8260D	10-12-24	10-12-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	69-124				
Toluene-d8	104	80-118				
4-Bromofluorobenzene	100	75-123				



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP4-10					
Laboratory ID:	10-140-14					
Dichlorodifluoromethane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Chloromethane	ND	0.0025	EPA 8260D	10-12-24	10-12-24	
Vinyl Chloride	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Bromomethane	ND	0.0025	EPA 8260D	10-12-24	10-12-24	
Chloroethane	ND	0.0025	EPA 8260D	10-12-24	10-12-24	
Trichlorofluoromethane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Acetone	0.0077	0.0050	EPA 8260D	10-12-24	10-12-24	Y
Iodomethane	ND	0.0050	EPA 8260D	10-12-24	10-12-24	
Carbon Disulfide	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Methylene Chloride	ND	0.0025	EPA 8260D	10-12-24	10-12-24	
(trans) 1,2-Dichloroethene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Methyl t-Butyl Ether	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Vinyl Acetate	ND	0.0025	EPA 8260D	10-12-24	10-12-24	
2,2-Dichloropropane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
(cis) 1,2-Dichloroethene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
2-Butanone	ND	0.0025	EPA 8260D	10-12-24	10-12-24	
Bromochloromethane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Chloroform	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,1,1-Trichloroethane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Carbon Tetrachloride	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloropropene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Benzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloroethane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Trichloroethene	0.0012	0.00050	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloropropane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Dibromomethane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Bromodichloromethane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	10-12-24	10-12-24	
(cis) 1,3-Dichloropropene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Methyl Isobutyl Ketone	ND	0.0025	EPA 8260D	10-12-24	10-12-24	
Toluene	ND	0.0025	EPA 8260D	10-12-24	10-12-24	



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP4-10					
Laboratory ID:	10-140-14					
(trans) 1,3-Dichloropropene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,1,2-Trichloroethane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Tetrachloroethene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,3-Dichloropropane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
2-Hexanone	ND	0.0025	EPA 8260D	10-12-24	10-12-24	
Dibromochloromethane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromoethane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Chlorobenzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,1,1,2-Tetrachloroethane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Ethylbenzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
m,p-Xylene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
o-Xylene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Styrene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Bromoform	ND	0.0025	EPA 8260D	10-12-24	10-12-24	
Isopropylbenzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Bromobenzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,1,2,2-Tetrachloroethane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichloropropane	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
n-Propylbenzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
2-Chlorotoluene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
4-Chlorotoluene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,3,5-Trimethylbenzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
tert-Butylbenzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trimethylbenzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
sec-Butylbenzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,3-Dichlorobenzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
p-Isopropyltoluene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,4-Dichlorobenzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,2-Dichlorobenzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
n-Butylbenzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromo-3-chloropropane	ND	0.0025	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trichlorobenzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Hexachlorobutadiene	ND	0.0025	EPA 8260D	10-12-24	10-12-24	
Naphthalene	ND	0.0025	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichlorobenzene	ND	0.00050	EPA 8260D	10-12-24	10-12-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	98	69-124				
Toluene-d8	100	80-118				
4-Bromofluorobenzene	97	75-123				



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		HA24-TP5-5.0				
Laboratory ID:		10-140-16				
Dichlorodifluoromethane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Chloromethane	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Vinyl Chloride	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Bromomethane	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Chloroethane	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Trichlorofluoromethane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Acetone	ND	0.0055	EPA 8260D	10-12-24	10-12-24	
Iodomethane	ND	0.0055	EPA 8260D	10-12-24	10-12-24	
Carbon Disulfide	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Methylene Chloride	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
(trans) 1,2-Dichloroethene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Methyl t-Butyl Ether	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Vinyl Acetate	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
2,2-Dichloropropane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
(cis) 1,2-Dichloroethene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
2-Butanone	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Bromochloromethane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Chloroform	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,1,1-Trichloroethane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Carbon Tetrachloride	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloropropene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Benzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloroethane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Trichloroethene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloropropane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Dibromomethane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Bromodichloromethane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260D	10-12-24	10-12-24	
(cis) 1,3-Dichloropropene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Methyl Isobutyl Ketone	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Toluene	ND	0.0027	EPA 8260D	10-12-24	10-12-24	



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP5-5.0					
Laboratory ID:	10-140-16					
(trans) 1,3-Dichloropropene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,1,2-Trichloroethane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Tetrachloroethene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,3-Dichloropropane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
2-Hexanone	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Dibromochloromethane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromoethane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Chlorobenzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,1,1,2-Tetrachloroethane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Ethylbenzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
m,p-Xylene	ND	0.0011	EPA 8260D	10-12-24	10-12-24	
o-Xylene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Styrene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Bromoform	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Isopropylbenzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Bromobenzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,1,2,2-Tetrachloroethane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichloropropane	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
n-Propylbenzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
2-Chlorotoluene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
4-Chlorotoluene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,3,5-Trimethylbenzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
tert-Butylbenzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trimethylbenzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
sec-Butylbenzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,3-Dichlorobenzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
p-Isopropyltoluene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,4-Dichlorobenzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,2-Dichlorobenzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
n-Butylbenzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromo-3-chloropropane	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trichlorobenzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Hexachlorobutadiene	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
Naphthalene	ND	0.0027	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichlorobenzene	ND	0.00055	EPA 8260D	10-12-24	10-12-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	69-124				
Toluene-d8	104	80-118				
4-Bromofluorobenzene	102	75-123				



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP5-10					
Laboratory ID:	10-140-17					
Dichlorodifluoromethane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Chloromethane	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Vinyl Chloride	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Bromomethane	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Chloroethane	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Trichlorofluoromethane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Acetone	0.0080	0.0060	EPA 8260D	10-12-24	10-12-24	Y
Iodomethane	ND	0.0060	EPA 8260D	10-12-24	10-12-24	
Carbon Disulfide	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Methylene Chloride	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
(trans) 1,2-Dichloroethene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Methyl t-Butyl Ether	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Vinyl Acetate	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
2,2-Dichloropropane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
(cis) 1,2-Dichloroethene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
2-Butanone	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Bromochloromethane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Chloroform	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,1,1-Trichloroethane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Carbon Tetrachloride	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloropropene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Benzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloroethane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Trichloroethene	0.00094	0.00060	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloropropane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Dibromomethane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Bromodichloromethane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260D	10-12-24	10-12-24	
(cis) 1,3-Dichloropropene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Methyl Isobutyl Ketone	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Toluene	ND	0.0030	EPA 8260D	10-12-24	10-12-24	



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP5-10					
Laboratory ID:	10-140-17					
(trans) 1,3-Dichloropropene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,1,2-Trichloroethane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Tetrachloroethene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,3-Dichloropropane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
2-Hexanone	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Dibromochloromethane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromoethane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Chlorobenzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,1,1,2-Tetrachloroethane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Ethylbenzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
m,p-Xylene	ND	0.0012	EPA 8260D	10-12-24	10-12-24	
o-Xylene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Styrene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Bromoform	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Isopropylbenzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Bromobenzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,1,2,2-Tetrachloroethane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichloropropane	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
n-Propylbenzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
2-Chlorotoluene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
4-Chlorotoluene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,3,5-Trimethylbenzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
tert-Butylbenzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trimethylbenzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
sec-Butylbenzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,3-Dichlorobenzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
p-Isopropyltoluene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,4-Dichlorobenzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,2-Dichlorobenzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
n-Butylbenzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromo-3-chloropropane	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trichlorobenzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Hexachlorobutadiene	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
Naphthalene	ND	0.0030	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichlorobenzene	ND	0.00060	EPA 8260D	10-12-24	10-12-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	69-124				
Toluene-d8	105	80-118				
4-Bromofluorobenzene	104	75-123				



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1012S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Chloromethane	ND	0.0050	EPA 8260D	10-12-24	10-12-24	
Vinyl Chloride	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Bromomethane	ND	0.0050	EPA 8260D	10-12-24	10-12-24	
Chloroethane	ND	0.0050	EPA 8260D	10-12-24	10-12-24	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Acetone	ND	0.010	EPA 8260D	10-12-24	10-12-24	
Iodomethane	ND	0.010	EPA 8260D	10-12-24	10-12-24	
Carbon Disulfide	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Methylene Chloride	ND	0.0050	EPA 8260D	10-12-24	10-12-24	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Vinyl Acetate	ND	0.0050	EPA 8260D	10-12-24	10-12-24	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
2-Butanone	ND	0.0050	EPA 8260D	10-12-24	10-12-24	
Bromochloromethane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Chloroform	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Benzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Trichloroethene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Dibromomethane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Bromodichloromethane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
2-Chloroethyl Vinyl Ether	ND	0.010	EPA 8260D	10-12-24	10-12-24	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	10-12-24	10-12-24	
Toluene	ND	0.0050	EPA 8260D	10-12-24	10-12-24	



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1012S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Tetrachloroethene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
2-Hexanone	ND	0.0050	EPA 8260D	10-12-24	10-12-24	
Dibromochloromethane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Chlorobenzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Ethylbenzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
m,p-Xylene	ND	0.0020	EPA 8260D	10-12-24	10-12-24	
o-Xylene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Styrene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Bromoform	ND	0.0050	EPA 8260D	10-12-24	10-12-24	
Isopropylbenzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Bromobenzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
n-Propylbenzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
2-Chlorotoluene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
4-Chlorotoluene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
tert-Butylbenzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
sec-Butylbenzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
n-Butylbenzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	10-12-24	10-12-24	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	10-12-24	10-12-24	
Naphthalene	ND	0.0050	EPA 8260D	10-12-24	10-12-24	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	10-12-24	10-12-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>69-124</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-118</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>75-123</i>				



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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

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Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent		Recovery		RPD	
					Recovery		Limits		RPD	Limit
SPIKE BLANKS										
Laboratory ID:	SB1012S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	0.0413	0.0417	0.0500	0.0500	83	83	24-162	1	24	
Chloromethane	0.0484	0.0471	0.0500	0.0500	97	94	41-143	3	22	
Vinyl Chloride	0.0509	0.0500	0.0500	0.0500	102	100	52-141	2	20	
Bromomethane	0.0436	0.0425	0.0500	0.0500	87	85	37-145	3	23	
Chloroethane	0.0403	0.0423	0.0500	0.0500	81	85	54-148	5	19	
Trichlorofluoromethane	0.0487	0.0490	0.0500	0.0500	97	98	65-142	1	18	
1,1-Dichloroethene	0.0532	0.0540	0.0500	0.0500	106	108	74-133	1	16	
Acetone	0.0725	0.0671	0.0500	0.0500	145	134	50-159	8	38	
Iodomethane	0.0421	0.0491	0.0500	0.0500	84	98	36-133	15	31	
Carbon Disulfide	0.0559	0.0584	0.0500	0.0500	112	117	37-138	4	27	
Methylene Chloride	0.0512	0.0487	0.0500	0.0500	102	97	60-135	5	23	
(trans) 1,2-Dichloroethene	0.0528	0.0530	0.0500	0.0500	106	106	74-131	0	15	
Methyl t-Butyl Ether	0.0567	0.0554	0.0500	0.0500	113	111	76-129	2	15	
1,1-Dichloroethane	0.0521	0.0523	0.0500	0.0500	104	105	74-130	0	15	
Vinyl Acetate	0.0590	0.0610	0.0500	0.0500	118	122	58-146	3	21	
2,2-Dichloropropane	0.0519	0.0506	0.0500	0.0500	104	101	74-137	3	16	
(cis) 1,2-Dichloroethene	0.0530	0.0511	0.0500	0.0500	106	102	71-136	4	15	
2-Butanone	0.0653	0.0654	0.0500	0.0500	131	131	58-144	0	32	
Bromochloromethane	0.0512	0.0496	0.0500	0.0500	102	99	78-128	3	15	
Chloroform	0.0526	0.0530	0.0500	0.0500	105	106	75-128	1	15	
1,1,1-Trichloroethane	0.0484	0.0487	0.0500	0.0500	97	97	73-129	1	15	
Carbon Tetrachloride	0.0505	0.0500	0.0500	0.0500	101	100	69-134	1	15	
1,1-Dichloropropene	0.0504	0.0529	0.0500	0.0500	101	106	73-127	5	15	
Benzene	0.0523	0.0512	0.0500	0.0500	105	102	75-126	2	15	
1,2-Dichloroethane	0.0564	0.0550	0.0500	0.0500	113	110	70-133	3	15	
Trichloroethene	0.0503	0.0483	0.0500	0.0500	101	97	80-130	4	15	
1,2-Dichloropropane	0.0542	0.0534	0.0500	0.0500	108	107	78-131	1	16	
Dibromomethane	0.0545	0.0533	0.0500	0.0500	109	107	72-136	2	28	
Bromodichloromethane	0.0553	0.0546	0.0500	0.0500	111	109	80-129	1	15	
(cis) 1,3-Dichloropropene	0.0567	0.0548	0.0500	0.0500	113	110	80-132	3	17	
Methyl Isobutyl Ketone	0.0665	0.0642	0.0500	0.0500	133	128	62-146	4	22	
Toluene	0.0491	0.0494	0.0500	0.0500	98	99	78-124	1	17	
(trans) 1,3-Dichloropropene	0.0483	0.0486	0.0500	0.0500	97	97	80-130	1	15	



Date of Report: October 23, 2024
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 Laboratory Reference: 2410-140
 Project: 0209066-000

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent		Recovery	RPD		
					Recovery	Limits	RPD	Limit	Flags	
SPIKE BLANKS										
Laboratory ID:	SB1012S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	0.0516	0.0513	0.0500	0.0500	103	103	80-123	1	15	
Tetrachloroethene	0.0491	0.0472	0.0500	0.0500	98	94	80-130	4	15	
1,3-Dichloropropane	0.0539	0.0524	0.0500	0.0500	108	105	80-122	3	15	
2-Hexanone	0.0648	0.0653	0.0500	0.0500	130	131	61-143	1	30	
Dibromochloromethane	0.0461	0.0466	0.0500	0.0500	92	93	80-129	1	15	
1,2-Dibromoethane	0.0545	0.0539	0.0500	0.0500	109	108	80-125	1	15	
Chlorobenzene	0.0466	0.0479	0.0500	0.0500	93	96	80-119	3	15	
1,1,1,2-Tetrachloroethane	0.0462	0.0472	0.0500	0.0500	92	94	80-124	2	15	
Ethylbenzene	0.0491	0.0493	0.0500	0.0500	98	99	80-120	0	15	
m,p-Xylene	0.0995	0.100	0.100	0.100	100	100	80-121	1	15	
o-Xylene	0.0491	0.0498	0.0500	0.0500	98	100	80-120	1	15	
Styrene	0.0502	0.0505	0.0500	0.0500	100	101	80-130	1	15	
Bromoform	0.0476	0.0478	0.0500	0.0500	95	96	79-132	0	15	
Isopropylbenzene	0.0490	0.0506	0.0500	0.0500	98	101	80-126	3	15	
Bromobenzene	0.0477	0.0468	0.0500	0.0500	95	94	80-124	2	15	
1,1,2,2-Tetrachloroethane	0.0568	0.0544	0.0500	0.0500	114	109	75-128	4	19	
1,2,3-Trichloropropane	0.0579	0.0570	0.0500	0.0500	116	114	74-128	2	19	
n-Propylbenzene	0.0481	0.0497	0.0500	0.0500	96	99	80-128	3	16	
2-Chlorotoluene	0.0466	0.0495	0.0500	0.0500	93	99	80-126	6	15	
4-Chlorotoluene	0.0475	0.0482	0.0500	0.0500	95	96	80-129	1	15	
1,3,5-Trimethylbenzene	0.0479	0.0495	0.0500	0.0500	96	99	80-129	3	15	
tert-Butylbenzene	0.0474	0.0492	0.0500	0.0500	95	98	80-129	4	15	
1,2,4-Trimethylbenzene	0.0464	0.0482	0.0500	0.0500	93	96	80-127	4	15	
sec-Butylbenzene	0.0486	0.0494	0.0500	0.0500	97	99	77-134	2	16	
1,3-Dichlorobenzene	0.0483	0.0481	0.0500	0.0500	97	96	80-125	0	15	
p-Isopropyltoluene	0.0486	0.0502	0.0500	0.0500	97	100	80-133	3	15	
1,4-Dichlorobenzene	0.0449	0.0485	0.0500	0.0500	90	97	78-127	8	15	
1,2-Dichlorobenzene	0.0480	0.0488	0.0500	0.0500	96	98	79-127	2	15	
n-Butylbenzene	0.0497	0.0511	0.0500	0.0500	99	102	80-136	3	17	
1,2-Dibromo-3-chloropropane	0.0562	0.0598	0.0500	0.0500	112	120	68-143	6	26	
1,2,4-Trichlorobenzene	0.0499	0.0523	0.0500	0.0500	100	105	77-142	5	19	
Hexachlorobutadiene	0.0475	0.0488	0.0500	0.0500	95	98	73-135	3	19	
Naphthalene	0.0556	0.0561	0.0500	0.0500	111	112	72-142	1	21	
1,2,3-Trichlorobenzene	0.0489	0.0524	0.0500	0.0500	98	105	77-139	7	19	
Surrogate:										
Dibromofluoromethane					102	101	69-124			
Toluene-d8					101	101	80-118			
4-Bromofluorobenzene					103	106	75-123			



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP6-5.0					
Laboratory ID:	10-140-01					
n-Nitrosodimethylamine	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Pyridine	ND	0.38	EPA 8270E	10-15-24	10-18-24	
Phenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Aniline	ND	0.19	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroethyl)ether	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2-Chlorophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
1,3-Dichlorobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
1,4-Dichlorobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Benzyl alcohol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
1,2-Dichlorobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2-Methylphenol (o-Cresol)	ND	0.038	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroisopropyl)ether	ND	0.038	EPA 8270E	10-15-24	10-18-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.038	EPA 8270E	10-15-24	10-18-24	
n-Nitroso-di-n-propylamine	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Hexachloroethane	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Nitrobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Isophorone	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2-Nitrophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,4-Dimethylphenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroethoxy)methane	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,4-Dichlorophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
1,2,4-Trichlorobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Naphthalene	ND	0.0077	EPA 8270E/SIM	10-15-24	10-17-24	
4-Chloroaniline	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Hexachlorobutadiene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
4-Chloro-3-methylphenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2-Methylnaphthalene	ND	0.0077	EPA 8270E/SIM	10-15-24	10-17-24	
1-Methylnaphthalene	ND	0.0077	EPA 8270E/SIM	10-15-24	10-17-24	
Hexachlorocyclopentadiene	ND	0.19	EPA 8270E	10-15-24	10-18-24	
2,4,6-Trichlorophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,3-Dichloroaniline	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,4,5-Trichlorophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2-Chloronaphthalene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2-Nitroaniline	ND	0.038	EPA 8270E	10-15-24	10-18-24	
1,4-Dinitrobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Dimethylphthalate	ND	0.038	EPA 8270E	10-15-24	10-18-24	
1,3-Dinitrobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,6-Dinitrotoluene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
1,2-Dinitrobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Acenaphthylene	0.015	0.0077	EPA 8270E/SIM	10-15-24	10-17-24	
3-Nitroaniline	ND	0.038	EPA 8270E	10-15-24	10-18-24	



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 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP6-5.0					
Laboratory ID:	10-140-01					
2,4-Dinitrophenol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Acenaphthene	0.025	0.0077	EPA 8270E/SIM	10-15-24	10-17-24	
4-Nitrophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,4-Dinitrotoluene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Dibenzofuran	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,3,5,6-Tetrachlorophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,3,4,6-Tetrachlorophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Diethylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
4-Chlorophenyl-phenylether	ND	0.038	EPA 8270E	10-15-24	10-18-24	
4-Nitroaniline	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Fluorene	0.024	0.0077	EPA 8270E/SIM	10-15-24	10-17-24	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
n-Nitrosodiphenylamine	ND	0.038	EPA 8270E	10-15-24	10-18-24	
1,2-Diphenylhydrazine	ND	0.038	EPA 8270E	10-15-24	10-18-24	
4-Bromophenyl-phenylether	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Hexachlorobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Pentachlorophenol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Phenanthrene	0.39	0.038	EPA 8270E	10-15-24	10-18-24	
Anthracene	0.15	0.038	EPA 8270E	10-15-24	10-18-24	
Carbazole	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Di-n-butylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Fluoranthene	0.70	0.038	EPA 8270E	10-15-24	10-18-24	
Pyrene	0.76	0.038	EPA 8270E	10-15-24	10-18-24	
Butylbenzylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Benzo[a]anthracene	0.24	0.038	EPA 8270E	10-15-24	10-18-24	
Chrysene	0.24	0.038	EPA 8270E	10-15-24	10-18-24	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Di-n-octylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Benzo[b]fluoranthene	0.24	0.038	EPA 8270E	10-15-24	10-18-24	
Benzo(j,k)fluoranthene	0.092	0.038	EPA 8270E	10-15-24	10-18-24	
Benzo[a]pyrene	0.25	0.038	EPA 8270E	10-15-24	10-18-24	
Indeno[1,2,3-cd]pyrene	0.14	0.038	EPA 8270E	10-15-24	10-18-24	
Dibenz[a,h]anthracene	0.026	0.0077	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo[g,h,i]perylene	0.17	0.038	EPA 8270E	10-15-24	10-18-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	79	22 - 111				
Phenol-d6	83	25 - 117				
Nitrobenzene-d5	77	26 - 111				
2-Fluorobiphenyl	86	32 - 111				
2,4,6-Tribromophenol	90	26 - 130				
Terphenyl-d14	92	33 - 118				



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP6-10					
Laboratory ID:	10-140-02					
n-Nitrosodimethylamine	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Pyridine	ND	1.0	EPA 8270E	10-15-24	10-18-24	
Phenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Aniline	ND	0.50	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroethyl)ether	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2-Chlorophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
1,3-Dichlorobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
1,4-Dichlorobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Benzyl alcohol	ND	0.50	EPA 8270E	10-15-24	10-18-24	
1,2-Dichlorobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2-Methylphenol (o-Cresol)	ND	0.10	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroisopropyl)ether	ND	0.13	EPA 8270E	10-15-24	10-18-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.10	EPA 8270E	10-15-24	10-18-24	
n-Nitroso-di-n-propylamine	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Hexachloroethane	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Nitrobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Isophorone	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2-Nitrophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2,4-Dimethylphenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroethoxy)methane	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2,4-Dichlorophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
1,2,4-Trichlorobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Naphthalene	0.12	0.10	EPA 8270E	10-15-24	10-18-24	
4-Chloroaniline	ND	0.50	EPA 8270E	10-15-24	10-18-24	
Hexachlorobutadiene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
4-Chloro-3-methylphenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2-Methylnaphthalene	0.075	0.010	EPA 8270E/SIM	10-15-24	10-17-24	
1-Methylnaphthalene	0.040	0.010	EPA 8270E/SIM	10-15-24	10-17-24	
Hexachlorocyclopentadiene	ND	0.73	EPA 8270E	10-15-24	10-18-24	
2,4,6-Trichlorophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2,3-Dichloroaniline	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2,4,5-Trichlorophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2-Chloronaphthalene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2-Nitroaniline	ND	0.10	EPA 8270E	10-15-24	10-18-24	
1,4-Dinitrobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Dimethylphthalate	ND	0.10	EPA 8270E	10-15-24	10-18-24	
1,3-Dinitrobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2,6-Dinitrotoluene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
1,2-Dinitrobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Acenaphthylene	0.017	0.010	EPA 8270E/SIM	10-15-24	10-17-24	
3-Nitroaniline	ND	0.10	EPA 8270E	10-15-24	10-18-24	



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP6-10					
Laboratory ID:	10-140-02					
2,4-Dinitrophenol	ND	0.74	EPA 8270E	10-15-24	10-18-24	
Acenaphthene	0.14	0.10	EPA 8270E	10-15-24	10-18-24	
4-Nitrophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2,4-Dinitrotoluene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Dibenzofuran	0.11	0.10	EPA 8270E	10-15-24	10-18-24	
2,3,5,6-Tetrachlorophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2,3,4,6-Tetrachlorophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Diethylphthalate	ND	0.50	EPA 8270E	10-15-24	10-18-24	
4-Chlorophenyl-phenylether	ND	0.10	EPA 8270E	10-15-24	10-18-24	
4-Nitroaniline	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Fluorene	0.24	0.10	EPA 8270E	10-15-24	10-18-24	
4,6-Dinitro-2-methylphenol	ND	0.73	EPA 8270E	10-15-24	10-18-24	
n-Nitrosodiphenylamine	ND	0.10	EPA 8270E	10-15-24	10-18-24	
1,2-Diphenylhydrazine	ND	0.10	EPA 8270E	10-15-24	10-18-24	
4-Bromophenyl-phenylether	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Hexachlorobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Pentachlorophenol	ND	0.50	EPA 8270E	10-15-24	10-18-24	
Phenanthrene	6.6	1.0	EPA 8270E	10-15-24	10-18-24	
Anthracene	1.2	0.10	EPA 8270E	10-15-24	10-18-24	
Carbazole	0.78	0.10	EPA 8270E	10-15-24	10-18-24	
Di-n-butylphthalate	ND	0.50	EPA 8270E	10-15-24	10-18-24	
Fluoranthene	28	1.0	EPA 8270E	10-15-24	10-18-24	
Pyrene	25	1.0	EPA 8270E	10-15-24	10-18-24	
Butylbenzylphthalate	ND	0.50	EPA 8270E	10-15-24	10-18-24	
bis-2-Ethylhexyladipate	ND	0.50	EPA 8270E	10-15-24	10-18-24	
3,3'-Dichlorobenzidine	ND	0.50	EPA 8270E	10-15-24	10-18-24	
Benzo[a]anthracene	14	1.0	EPA 8270E	10-15-24	10-18-24	
Chrysene	15	1.0	EPA 8270E	10-15-24	10-18-24	
bis(2-Ethylhexyl)phthalate	ND	0.50	EPA 8270E	10-15-24	10-18-24	
Di-n-octylphthalate	ND	0.50	EPA 8270E	10-15-24	10-18-24	
Benzo[b]fluoranthene	19	1.0	EPA 8270E	10-15-24	10-18-24	
Benzo(j,k)fluoranthene	5.6	1.0	EPA 8270E	10-15-24	10-18-24	
Benzo[a]pyrene	14	1.0	EPA 8270E	10-15-24	10-18-24	
Indeno[1,2,3-cd]pyrene	6.5	1.0	EPA 8270E	10-15-24	10-18-24	
Dibenz[a,h]anthracene	1.7	0.10	EPA 8270E	10-15-24	10-18-24	
Benzo[g,h,i]perylene	5.9	0.10	EPA 8270E	10-15-24	10-18-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	50	22 - 111				
Phenol-d6	56	25 - 117				
Nitrobenzene-d5	60	26 - 111				
2-Fluorobiphenyl	74	32 - 111				
2,4,6-Tribromophenol	63	26 - 130				
Terphenyl-d14	68	33 - 118				



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP6-15					
Laboratory ID:	10-140-03					
n-Nitrosodimethylamine	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Pyridine	ND	1.0	EPA 8270E	10-15-24	10-18-24	
Phenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Aniline	ND	0.50	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroethyl)ether	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2-Chlorophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
1,3-Dichlorobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
1,4-Dichlorobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Benzyl alcohol	ND	0.50	EPA 8270E	10-15-24	10-18-24	
1,2-Dichlorobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2-Methylphenol (o-Cresol)	ND	0.10	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroisopropyl)ether	ND	0.13	EPA 8270E	10-15-24	10-18-24	
(3+4)-Methylphenol (m,p-Cresol)	0.11	0.10	EPA 8270E	10-15-24	10-18-24	
n-Nitroso-di-n-propylamine	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Hexachloroethane	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Nitrobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Isophorone	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2-Nitrophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2,4-Dimethylphenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroethoxy)methane	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2,4-Dichlorophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
1,2,4-Trichlorobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Naphthalene	0.042	0.010	EPA 8270E/SIM	10-15-24	10-17-24	
4-Chloroaniline	ND	0.50	EPA 8270E	10-15-24	10-18-24	
Hexachlorobutadiene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
4-Chloro-3-methylphenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2-Methylnaphthalene	0.020	0.010	EPA 8270E/SIM	10-15-24	10-17-24	
1-Methylnaphthalene	ND	0.010	EPA 8270E/SIM	10-15-24	10-17-24	
Hexachlorocyclopentadiene	ND	0.73	EPA 8270E	10-15-24	10-18-24	
2,4,6-Trichlorophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2,3-Dichloroaniline	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2,4,5-Trichlorophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2-Chloronaphthalene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2-Nitroaniline	ND	0.10	EPA 8270E	10-15-24	10-18-24	
1,4-Dinitrobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Dimethylphthalate	ND	0.10	EPA 8270E	10-15-24	10-18-24	
1,3-Dinitrobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2,6-Dinitrotoluene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
1,2-Dinitrobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Acenaphthylene	ND	0.010	EPA 8270E/SIM	10-15-24	10-17-24	
3-Nitroaniline	ND	0.10	EPA 8270E	10-15-24	10-18-24	



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP6-15					
Laboratory ID:	10-140-03					
2,4-Dinitrophenol	ND	0.75	EPA 8270E	10-15-24	10-18-24	
Acenaphthene	0.021	0.010	EPA 8270E/SIM	10-15-24	10-17-24	
4-Nitrophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2,4-Dinitrotoluene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Dibenzofuran	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2,3,5,6-Tetrachlorophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
2,3,4,6-Tetrachlorophenol	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Diethylphthalate	ND	0.50	EPA 8270E	10-15-24	10-18-24	
4-Chlorophenyl-phenylether	ND	0.10	EPA 8270E	10-15-24	10-18-24	
4-Nitroaniline	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Fluorene	0.022	0.010	EPA 8270E/SIM	10-15-24	10-17-24	
4,6-Dinitro-2-methylphenol	ND	0.74	EPA 8270E	10-15-24	10-18-24	
n-Nitrosodiphenylamine	ND	0.10	EPA 8270E	10-15-24	10-18-24	
1,2-Diphenylhydrazine	ND	0.10	EPA 8270E	10-15-24	10-18-24	
4-Bromophenyl-phenylether	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Hexachlorobenzene	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Pentachlorophenol	ND	0.50	EPA 8270E	10-15-24	10-18-24	
Phenanthrene	0.11	0.10	EPA 8270E	10-15-24	10-18-24	
Anthracene	0.030	0.010	EPA 8270E/SIM	10-15-24	10-17-24	
Carbazole	ND	0.10	EPA 8270E	10-15-24	10-18-24	
Di-n-butylphthalate	ND	0.50	EPA 8270E	10-15-24	10-18-24	
Fluoranthene	0.15	0.10	EPA 8270E	10-15-24	10-18-24	
Pyrene	0.14	0.10	EPA 8270E	10-15-24	10-18-24	
Butylbenzylphthalate	ND	0.50	EPA 8270E	10-15-24	10-18-24	
bis-2-Ethylhexyladipate	ND	0.50	EPA 8270E	10-15-24	10-18-24	
3,3'-Dichlorobenzidine	ND	0.50	EPA 8270E	10-15-24	10-18-24	
Benzo[a]anthracene	0.10	0.10	EPA 8270E	10-15-24	10-18-24	
Chrysene	0.12	0.10	EPA 8270E	10-15-24	10-18-24	
bis(2-Ethylhexyl)phthalate	ND	0.50	EPA 8270E	10-15-24	10-18-24	
Di-n-octylphthalate	ND	0.50	EPA 8270E	10-15-24	10-18-24	
Benzo[b]fluoranthene	0.16	0.10	EPA 8270E	10-15-24	10-18-24	
Benzo(j,k)fluoranthene	0.040	0.010	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo[a]pyrene	0.14	0.10	EPA 8270E	10-15-24	10-18-24	
Indeno[1,2,3-cd]pyrene	0.11	0.010	EPA 8270E/SIM	10-15-24	10-17-24	
Dibenz[a,h]anthracene	0.017	0.010	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo[g,h,i]perylene	0.11	0.10	EPA 8270E	10-15-24	10-18-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	61	22 - 111				
Phenol-d6	67	25 - 117				
Nitrobenzene-d5	66	26 - 111				
2-Fluorobiphenyl	76	32 - 111				
2,4,6-Tribromophenol	78	26 - 130				
Terphenyl-d14	83	33 - 118				



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP1-5.0					
Laboratory ID:	10-140-04					
n-Nitrosodimethylamine	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Pyridine	ND	0.38	EPA 8270E	10-15-24	10-18-24	
Phenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Aniline	ND	0.19	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroethyl)ether	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2-Chlorophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
1,3-Dichlorobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
1,4-Dichlorobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Benzyl alcohol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
1,2-Dichlorobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2-Methylphenol (o-Cresol)	ND	0.038	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroisopropyl)ether	ND	0.038	EPA 8270E	10-15-24	10-18-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.038	EPA 8270E	10-15-24	10-18-24	
n-Nitroso-di-n-propylamine	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Hexachloroethane	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Nitrobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Isophorone	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2-Nitrophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,4-Dimethylphenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroethoxy)methane	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,4-Dichlorophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
1,2,4-Trichlorobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Naphthalene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
4-Chloroaniline	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Hexachlorobutadiene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
4-Chloro-3-methylphenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2-Methylnaphthalene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
1-Methylnaphthalene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Hexachlorocyclopentadiene	ND	0.19	EPA 8270E	10-15-24	10-18-24	
2,4,6-Trichlorophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,3-Dichloroaniline	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,4,5-Trichlorophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2-Chloronaphthalene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2-Nitroaniline	ND	0.038	EPA 8270E	10-15-24	10-18-24	
1,4-Dinitrobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Dimethylphthalate	ND	0.038	EPA 8270E	10-15-24	10-18-24	
1,3-Dinitrobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,6-Dinitrotoluene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
1,2-Dinitrobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Acenaphthylene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
3-Nitroaniline	ND	0.038	EPA 8270E	10-15-24	10-18-24	



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP1-5.0					
Laboratory ID:	10-140-04					
2,4-Dinitrophenol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Acenaphthene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
4-Nitrophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,4-Dinitrotoluene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Dibenzofuran	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,3,5,6-Tetrachlorophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
2,3,4,6-Tetrachlorophenol	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Diethylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
4-Chlorophenyl-phenylether	ND	0.038	EPA 8270E	10-15-24	10-18-24	
4-Nitroaniline	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Fluorene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
n-Nitrosodiphenylamine	ND	0.038	EPA 8270E	10-15-24	10-18-24	
1,2-Diphenylhydrazine	ND	0.038	EPA 8270E	10-15-24	10-18-24	
4-Bromophenyl-phenylether	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Hexachlorobenzene	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Pentachlorophenol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Phenanthrene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Anthracene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Carbazole	ND	0.038	EPA 8270E	10-15-24	10-18-24	
Di-n-butylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Fluoranthene	0.0077	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Pyrene	0.0095	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Butylbenzylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Benzo[a]anthracene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Chrysene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Di-n-octylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Benzo[b]fluoranthene	0.0077	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo(j,k)fluoranthene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo[a]pyrene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Indeno[1,2,3-cd]pyrene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Dibenz[a,h]anthracene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo[g,h,i]perylene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	59	22 - 111				
Phenol-d6	69	25 - 117				
Nitrobenzene-d5	61	26 - 111				
2-Fluorobiphenyl	81	32 - 111				
2,4,6-Tribromophenol	100	26 - 130				
Terphenyl-d14	100	33 - 118				



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP1-15					
Laboratory ID:	10-140-06					
n-Nitrosodimethylamine	ND	0.43	EPA 8270E	10-15-24	10-19-24	
Pyridine	ND	4.3	EPA 8270E	10-15-24	10-19-24	
Phenol	ND	0.43	EPA 8270E	10-15-24	10-19-24	
Aniline	ND	2.2	EPA 8270E	10-15-24	10-19-24	
bis(2-Chloroethyl)ether	ND	0.43	EPA 8270E	10-15-24	10-19-24	
2-Chlorophenol	ND	0.43	EPA 8270E	10-15-24	10-19-24	
1,3-Dichlorobenzene	ND	0.43	EPA 8270E	10-15-24	10-19-24	
1,4-Dichlorobenzene	ND	0.43	EPA 8270E	10-15-24	10-19-24	
Benzyl alcohol	ND	2.2	EPA 8270E	10-15-24	10-19-24	
1,2-Dichlorobenzene	ND	0.43	EPA 8270E	10-15-24	10-19-24	
2-Methylphenol (o-Cresol)	ND	0.43	EPA 8270E	10-15-24	10-19-24	
bis(2-Chloroisopropyl)ether	ND	0.57	EPA 8270E	10-15-24	10-19-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.43	EPA 8270E	10-15-24	10-19-24	
n-Nitroso-di-n-propylamine	ND	0.43	EPA 8270E	10-15-24	10-19-24	
Hexachloroethane	ND	0.43	EPA 8270E	10-15-24	10-19-24	
Nitrobenzene	ND	0.43	EPA 8270E	10-15-24	10-19-24	
Isophorone	ND	0.43	EPA 8270E	10-15-24	10-19-24	
2-Nitrophenol	ND	0.43	EPA 8270E	10-15-24	10-19-24	
2,4-Dimethylphenol	ND	0.43	EPA 8270E	10-15-24	10-19-24	
bis(2-Chloroethoxy)methane	ND	0.43	EPA 8270E	10-15-24	10-19-24	
2,4-Dichlorophenol	ND	0.43	EPA 8270E	10-15-24	10-19-24	
1,2,4-Trichlorobenzene	ND	0.43	EPA 8270E	10-15-24	10-19-24	
Naphthalene	1.0	0.43	EPA 8270E	10-15-24	10-19-24	
4-Chloroaniline	ND	2.2	EPA 8270E	10-15-24	10-19-24	
Hexachlorobutadiene	ND	0.43	EPA 8270E	10-15-24	10-19-24	
4-Chloro-3-methylphenol	ND	0.43	EPA 8270E	10-15-24	10-19-24	
2-Methylnaphthalene	0.49	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
1-Methylnaphthalene	0.29	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
Hexachlorocyclopentadiene	ND	3.2	EPA 8270E	10-15-24	10-19-24	
2,4,6-Trichlorophenol	ND	0.43	EPA 8270E	10-15-24	10-19-24	
2,3-Dichloroaniline	ND	0.43	EPA 8270E	10-15-24	10-19-24	
2,4,5-Trichlorophenol	ND	0.43	EPA 8270E	10-15-24	10-19-24	
2-Chloronaphthalene	ND	0.43	EPA 8270E	10-15-24	10-19-24	
2-Nitroaniline	ND	0.43	EPA 8270E	10-15-24	10-19-24	
1,4-Dinitrobenzene	ND	0.43	EPA 8270E	10-15-24	10-19-24	
Dimethylphthalate	ND	0.43	EPA 8270E	10-15-24	10-19-24	
1,3-Dinitrobenzene	ND	0.43	EPA 8270E	10-15-24	10-19-24	
2,6-Dinitrotoluene	ND	0.43	EPA 8270E	10-15-24	10-19-24	
1,2-Dinitrobenzene	ND	0.43	EPA 8270E	10-15-24	10-19-24	
Acenaphthylene	ND	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
3-Nitroaniline	ND	0.43	EPA 8270E	10-15-24	10-19-24	



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP1-15					
Laboratory ID:	10-140-06					
2,4-Dinitrophenol	ND	3.2	EPA 8270E	10-15-24	10-19-24	
Acenaphthene	0.099	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
4-Nitrophenol	ND	0.43	EPA 8270E	10-15-24	10-19-24	
2,4-Dinitrotoluene	ND	0.43	EPA 8270E	10-15-24	10-19-24	
Dibenzofuran	ND	0.43	EPA 8270E	10-15-24	10-19-24	
2,3,5,6-Tetrachlorophenol	ND	0.43	EPA 8270E	10-15-24	10-19-24	
2,3,4,6-Tetrachlorophenol	ND	0.43	EPA 8270E	10-15-24	10-19-24	
Diethylphthalate	ND	2.2	EPA 8270E	10-15-24	10-19-24	
4-Chlorophenyl-phenylether	ND	0.43	EPA 8270E	10-15-24	10-19-24	
4-Nitroaniline	ND	0.43	EPA 8270E	10-15-24	10-19-24	
Fluorene	0.091	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
4,6-Dinitro-2-methylphenol	ND	3.2	EPA 8270E	10-15-24	10-19-24	
n-Nitrosodiphenylamine	ND	0.43	EPA 8270E	10-15-24	10-19-24	
1,2-Diphenylhydrazine	ND	0.43	EPA 8270E	10-15-24	10-19-24	
4-Bromophenyl-phenylether	ND	0.43	EPA 8270E	10-15-24	10-19-24	
Hexachlorobenzene	ND	0.43	EPA 8270E	10-15-24	10-19-24	
Pentachlorophenol	ND	2.2	EPA 8270E	10-15-24	10-19-24	
Phenanthrene	0.25	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
Anthracene	ND	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
Carbazole	ND	0.43	EPA 8270E	10-15-24	10-19-24	
Di-n-butylphthalate	ND	2.2	EPA 8270E	10-15-24	10-19-24	
Fluoranthene	0.11	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
Pyrene	0.28	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
Butylbenzylphthalate	ND	2.2	EPA 8270E	10-15-24	10-19-24	
bis-2-Ethylhexyladipate	ND	2.2	EPA 8270E	10-15-24	10-19-24	
3,3'-Dichlorobenzidine	ND	2.2	EPA 8270E	10-15-24	10-19-24	
Benzo[a]anthracene	0.093	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
Chrysene	0.24	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
bis(2-Ethylhexyl)phthalate	ND	2.2	EPA 8270E	10-15-24	10-19-24	
Di-n-octylphthalate	ND	2.2	EPA 8270E	10-15-24	10-19-24	
Benzo[b]fluoranthene	0.096	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo(j,k)fluoranthene	ND	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo[a]pyrene	ND	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
Indeno[1,2,3-cd]pyrene	ND	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
Dibenz[a,h]anthracene	ND	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo[g,h,i]perylene	0.099	0.087	EPA 8270E/SIM	10-15-24	10-17-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	63	22 - 111				
Phenol-d6	66	25 - 117				
Nitrobenzene-d5	67	26 - 111				
2-Fluorobiphenyl	73	32 - 111				
2,4,6-Tribromophenol	70	26 - 130				
Terphenyl-d14	78	33 - 118				



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 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP2-10					
Laboratory ID:	10-140-08					
n-Nitrosodimethylamine	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Pyridine	ND	0.37	EPA 8270E	10-15-24	10-18-24	
Phenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Aniline	ND	0.19	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Chlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,3-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,4-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Benzyl alcohol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
1,2-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270E	10-15-24	10-18-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270E	10-15-24	10-18-24	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Hexachloroethane	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Nitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Isophorone	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Nitrophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,4-Dimethylphenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,4-Dichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Naphthalene	0.0081	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
4-Chloroaniline	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Hexachlorobutadiene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Methylnaphthalene	0.0084	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
1-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
Hexachlorocyclopentadiene	ND	0.19	EPA 8270E	10-15-24	10-18-24	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,3-Dichloroaniline	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Chloronaphthalene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,4-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Dimethylphthalate	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,3-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,6-Dinitrotoluene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,2-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Acenaphthylene	0.0075	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
3-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-18-24	



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 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP2-10					
Laboratory ID:	10-140-08					
2,4-Dinitrophenol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Acenaphthene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
4-Nitrophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,4-Dinitrotoluene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Dibenzofuran	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Diethylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270E	10-15-24	10-18-24	
4-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Fluorene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270E	10-15-24	10-18-24	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Hexachlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Pentachlorophenol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Phenanthrene	0.056	0.037	EPA 8270E	10-15-24	10-18-24	
Anthracene	0.016	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
Carbazole	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Di-n-butylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Fluoranthene	0.079	0.037	EPA 8270E	10-15-24	10-18-24	
Pyrene	0.088	0.037	EPA 8270E	10-15-24	10-18-24	
Butylbenzylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
bis(2-Ethylhexyl)adipate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Benzo[a]anthracene	0.035	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
Chrysene	0.039	0.037	EPA 8270E	10-15-24	10-18-24	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Di-n-octylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Benzo[b]fluoranthene	0.044	0.037	EPA 8270E	10-15-24	10-18-24	
Benzo(j,k)fluoranthene	0.012	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo[a]pyrene	0.043	0.037	EPA 8270E	10-15-24	10-18-24	
Indeno[1,2,3-cd]pyrene	0.030	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo[g,h,i]perylene	0.030	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	85	22 - 111				
Phenol-d6	89	25 - 117				
Nitrobenzene-d5	86	26 - 111				
2-Fluorobiphenyl	97	32 - 111				
2,4,6-Tribromophenol	102	26 - 130				
Terphenyl-d14	102	33 - 118				



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP3-5.0					
Laboratory ID:	10-140-10					
n-Nitrosodimethylamine	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Pyridine	ND	0.37	EPA 8270E	10-15-24	10-16-24	
Phenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Aniline	ND	0.18	EPA 8270E	10-15-24	10-16-24	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Chlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,3-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,4-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Benzyl alcohol	ND	0.18	EPA 8270E	10-15-24	10-16-24	
1,2-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270E	10-15-24	10-16-24	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270E	10-15-24	10-16-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270E	10-15-24	10-16-24	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Hexachloroethane	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Nitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Isophorone	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Nitrophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,4-Dimethylphenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,4-Dichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Naphthalene	ND	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
4-Chloroaniline	ND	0.18	EPA 8270E	10-15-24	10-16-24	
Hexachlorobutadiene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Methylnaphthalene	ND	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
1-Methylnaphthalene	ND	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
Hexachlorocyclopentadiene	ND	0.18	EPA 8270E	10-15-24	10-16-24	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,3-Dichloroaniline	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Chloronaphthalene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,4-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Dimethylphthalate	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,3-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,6-Dinitrotoluene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,2-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Acenaphthylene	ND	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
3-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-16-24	



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP3-5.0					
Laboratory ID:	10-140-10					
2,4-Dinitrophenol	ND	0.18	EPA 8270E	10-15-24	10-16-24	
Acenaphthene	ND	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
4-Nitrophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,4-Dinitrotoluene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Dibenzofuran	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Diethylphthalate	ND	0.18	EPA 8270E	10-15-24	10-16-24	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270E	10-15-24	10-16-24	
4-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Fluorene	ND	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270E	10-15-24	10-16-24	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270E	10-15-24	10-16-24	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Hexachlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Pentachlorophenol	ND	0.18	EPA 8270E	10-15-24	10-16-24	
Phenanthrene	0.018	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
Anthracene	ND	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
Carbazole	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Di-n-butylphthalate	ND	0.18	EPA 8270E	10-15-24	10-16-24	
Fluoranthene	0.028	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
Pyrene	0.026	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
Butylbenzylphthalate	ND	0.18	EPA 8270E	10-15-24	10-16-24	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270E	10-15-24	10-16-24	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270E	10-15-24	10-16-24	
Benzo[a]anthracene	0.013	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
Chrysene	0.011	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270E	10-15-24	10-16-24	
Di-n-octylphthalate	ND	0.18	EPA 8270E	10-15-24	10-16-24	
Benzo[b]fluoranthene	0.016	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
Benzo[a]pyrene	0.011	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
Indeno[1,2,3-cd]pyrene	0.0079	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
Benzo[g,h,i]perylene	0.0076	0.0073	EPA 8270E/SIM	10-15-24	10-16-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	77	22 - 111				
Phenol-d6	73	25 - 117				
Nitrobenzene-d5	81	26 - 111				
2-Fluorobiphenyl	83	32 - 111				
2,4,6-Tribromophenol	90	26 - 130				
Terphenyl-d14	100	33 - 118				



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP3-10					
Laboratory ID:	10-140-11					
n-Nitrosodimethylamine	ND	0.037	EPA 8270E	10-15-24	10-17-24	
Pyridine	ND	0.37	EPA 8270E	10-15-24	10-17-24	
Phenol	ND	0.037	EPA 8270E	10-15-24	10-17-24	
Aniline	ND	0.19	EPA 8270E	10-15-24	10-17-24	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270E	10-15-24	10-17-24	
2-Chlorophenol	ND	0.037	EPA 8270E	10-15-24	10-17-24	
1,3-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-17-24	
1,4-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-17-24	
Benzyl alcohol	ND	0.19	EPA 8270E	10-15-24	10-17-24	
1,2-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-17-24	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270E	10-15-24	10-17-24	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270E	10-15-24	10-17-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270E	10-15-24	10-17-24	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270E	10-15-24	10-17-24	
Hexachloroethane	ND	0.037	EPA 8270E	10-15-24	10-17-24	
Nitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-17-24	
Isophorone	ND	0.037	EPA 8270E	10-15-24	10-17-24	
2-Nitrophenol	ND	0.037	EPA 8270E	10-15-24	10-17-24	
2,4-Dimethylphenol	ND	0.037	EPA 8270E	10-15-24	10-17-24	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270E	10-15-24	10-17-24	
2,4-Dichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-17-24	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-17-24	
Naphthalene	0.010	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
4-Chloroaniline	ND	0.19	EPA 8270E	10-15-24	10-17-24	
Hexachlorobutadiene	ND	0.037	EPA 8270E	10-15-24	10-17-24	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270E	10-15-24	10-17-24	
2-Methylnaphthalene	0.0097	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
1-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
Hexachlorocyclopentadiene	ND	0.31	EPA 8270E	10-15-24	10-17-24	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-17-24	
2,3-Dichloroaniline	ND	0.037	EPA 8270E	10-15-24	10-17-24	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-17-24	
2-Chloronaphthalene	ND	0.037	EPA 8270E	10-15-24	10-17-24	
2-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-17-24	
1,4-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-17-24	
Dimethylphthalate	ND	0.037	EPA 8270E	10-15-24	10-17-24	
1,3-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-17-24	
2,6-Dinitrotoluene	ND	0.037	EPA 8270E	10-15-24	10-17-24	
1,2-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-17-24	
Acenaphthylene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
3-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-17-24	



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP3-10					
Laboratory ID:	10-140-11					
2,4-Dinitrophenol	ND	0.27	EPA 8270E	10-15-24	10-17-24	
Acenaphthene	0.011	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
4-Nitrophenol	ND	0.037	EPA 8270E	10-15-24	10-17-24	
2,4-Dinitrotoluene	ND	0.037	EPA 8270E	10-15-24	10-17-24	
Dibenzofuran	ND	0.037	EPA 8270E	10-15-24	10-17-24	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-15-24	10-17-24	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-15-24	10-17-24	
Diethylphthalate	ND	0.19	EPA 8270E	10-15-24	10-17-24	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270E	10-15-24	10-17-24	
4-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-17-24	
Fluorene	0.011	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
4,6-Dinitro-2-methylphenol	ND	0.26	EPA 8270E	10-15-24	10-17-24	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270E	10-15-24	10-17-24	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270E	10-15-24	10-17-24	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270E	10-15-24	10-17-24	
Hexachlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-17-24	
Pentachlorophenol	ND	0.19	EPA 8270E	10-15-24	10-17-24	
Phenanthrene	0.096	0.037	EPA 8270E	10-15-24	10-17-24	
Anthracene	0.022	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
Carbazole	ND	0.037	EPA 8270E	10-15-24	10-17-24	
Di-n-butylphthalate	ND	0.19	EPA 8270E	10-15-24	10-17-24	
Fluoranthene	0.13	0.037	EPA 8270E	10-15-24	10-17-24	
Pyrene	0.14	0.037	EPA 8270E	10-15-24	10-17-24	
Butylbenzylphthalate	ND	0.19	EPA 8270E	10-15-24	10-17-24	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270E	10-15-24	10-17-24	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270E	10-15-24	10-17-24	
Benzo[a]anthracene	0.066	0.037	EPA 8270E	10-15-24	10-17-24	
Chrysene	0.070	0.037	EPA 8270E	10-15-24	10-17-24	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270E	10-15-24	10-17-24	
Di-n-octylphthalate	ND	0.19	EPA 8270E	10-15-24	10-17-24	
Benzo[b]fluoranthene	0.079	0.037	EPA 8270E	10-15-24	10-17-24	
Benzo(j,k)fluoranthene	0.033	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo[a]pyrene	0.064	0.037	EPA 8270E	10-15-24	10-17-24	
Indeno[1,2,3-cd]pyrene	0.040	0.037	EPA 8270E	10-15-24	10-17-24	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo[g,h,i]perylene	0.046	0.037	EPA 8270E	10-15-24	10-17-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	82	22 - 111				
Phenol-d6	73	25 - 117				
Nitrobenzene-d5	82	26 - 111				
2-Fluorobiphenyl	95	32 - 111				
2,4,6-Tribromophenol	100	26 - 130				
Terphenyl-d14	97	33 - 118				



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP4-5.0					
Laboratory ID:	10-140-13					
n-Nitrosodimethylamine	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Pyridine	ND	0.37	EPA 8270E	10-15-24	10-16-24	
Phenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Aniline	ND	0.18	EPA 8270E	10-15-24	10-16-24	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Chlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,3-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,4-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Benzyl alcohol	ND	0.18	EPA 8270E	10-15-24	10-16-24	
1,2-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270E	10-15-24	10-16-24	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270E	10-15-24	10-16-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270E	10-15-24	10-16-24	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Hexachloroethane	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Nitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Isophorone	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Nitrophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,4-Dimethylphenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,4-Dichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Naphthalene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
4-Chloroaniline	ND	0.18	EPA 8270E	10-15-24	10-16-24	
Hexachlorobutadiene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
1-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Hexachlorocyclopentadiene	ND	0.18	EPA 8270E	10-15-24	10-16-24	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,3-Dichloroaniline	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Chloronaphthalene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,4-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Dimethylphthalate	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,3-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,6-Dinitrotoluene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,2-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Acenaphthylene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
3-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-16-24	



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP4-5.0					
Laboratory ID:	10-140-13					
2,4-Dinitrophenol	ND	0.18	EPA 8270E	10-15-24	10-16-24	
Acenaphthene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
4-Nitrophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,4-Dinitrotoluene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Dibenzofuran	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Diethylphthalate	ND	0.18	EPA 8270E	10-15-24	10-16-24	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270E	10-15-24	10-16-24	
4-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Fluorene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270E	10-15-24	10-16-24	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270E	10-15-24	10-16-24	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Hexachlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Pentachlorophenol	ND	0.18	EPA 8270E	10-15-24	10-16-24	
Phenanthrene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Anthracene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Carbazole	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Di-n-butylphthalate	ND	0.18	EPA 8270E	10-15-24	10-16-24	
Fluoranthene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Pyrene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Butylbenzylphthalate	ND	0.18	EPA 8270E	10-15-24	10-16-24	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270E	10-15-24	10-16-24	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270E	10-15-24	10-16-24	
Benzo[a]anthracene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Chrysene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270E	10-15-24	10-16-24	
Di-n-octylphthalate	ND	0.18	EPA 8270E	10-15-24	10-16-24	
Benzo[b]fluoranthene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Benzo(j,k)fluoranthene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Benzo[a]pyrene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Indeno[1,2,3-cd]pyrene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Benzo[g,h,i]perylene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	89	22 - 111				
Phenol-d6	82	25 - 117				
Nitrobenzene-d5	90	26 - 111				
2-Fluorobiphenyl	91	32 - 111				
2,4,6-Tribromophenol	105	26 - 130				
Terphenyl-d14	110	33 - 118				



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP4-10					
Laboratory ID:	10-140-14					
n-Nitrosodimethylamine	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Pyridine	ND	0.37	EPA 8270E	10-15-24	10-18-24	
Phenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Aniline	ND	0.18	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Chlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,3-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,4-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Benzyl alcohol	ND	0.18	EPA 8270E	10-15-24	10-18-24	
1,2-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270E	10-15-24	10-18-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270E	10-15-24	10-18-24	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Hexachloroethane	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Nitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Isophorone	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Nitrophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,4-Dimethylphenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,4-Dichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Naphthalene	0.014	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
4-Chloroaniline	ND	0.18	EPA 8270E	10-15-24	10-18-24	
Hexachlorobutadiene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Methylnaphthalene	0.016	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
1-Methylnaphthalene	0.010	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
Hexachlorocyclopentadiene	ND	0.18	EPA 8270E	10-15-24	10-18-24	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,3-Dichloroaniline	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Chloronaphthalene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,4-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Dimethylphthalate	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,3-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,6-Dinitrotoluene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,2-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Acenaphthylene	0.010	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
3-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-18-24	



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 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP4-10					
Laboratory ID:	10-140-14					
2,4-Dinitrophenol	ND	0.18	EPA 8270E	10-15-24	10-18-24	
Acenaphthene	0.014	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
4-Nitrophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,4-Dinitrotoluene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Dibenzofuran	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Diethylphthalate	ND	0.18	EPA 8270E	10-15-24	10-18-24	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270E	10-15-24	10-18-24	
4-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Fluorene	0.015	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270E	10-15-24	10-18-24	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270E	10-15-24	10-18-24	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Hexachlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Pentachlorophenol	ND	0.18	EPA 8270E	10-15-24	10-18-24	
Phenanthrene	0.13	0.037	EPA 8270E	10-15-24	10-18-24	
Anthracene	0.038	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
Carbazole	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Di-n-butylphthalate	ND	0.18	EPA 8270E	10-15-24	10-18-24	
Fluoranthene	0.13	0.037	EPA 8270E	10-15-24	10-18-24	
Pyrene	0.15	0.037	EPA 8270E	10-15-24	10-18-24	
Butylbenzylphthalate	ND	0.18	EPA 8270E	10-15-24	10-18-24	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270E	10-15-24	10-18-24	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270E	10-15-24	10-18-24	
Benzo[a]anthracene	0.052	0.037	EPA 8270E	10-15-24	10-18-24	
Chrysene	0.068	0.037	EPA 8270E	10-15-24	10-18-24	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270E	10-15-24	10-18-24	
Di-n-octylphthalate	ND	0.18	EPA 8270E	10-15-24	10-18-24	
Benzo[b]fluoranthene	0.064	0.037	EPA 8270E	10-15-24	10-18-24	
Benzo(j,k)fluoranthene	0.019	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo[a]pyrene	0.065	0.037	EPA 8270E	10-15-24	10-18-24	
Indeno[1,2,3-cd]pyrene	0.043	0.037	EPA 8270E	10-15-24	10-18-24	
Dibenz[a,h]anthracene	0.0083	0.0074	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo[g,h,i]perylene	0.053	0.037	EPA 8270E	10-15-24	10-18-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	79	22 - 111				
Phenol-d6	81	25 - 117				
Nitrobenzene-d5	80	26 - 111				
2-Fluorobiphenyl	87	32 - 111				
2,4,6-Tribromophenol	88	26 - 130				
Terphenyl-d14	95	33 - 118				



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 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP5-5.0					
Laboratory ID:	10-140-16					
n-Nitrosodimethylamine	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Pyridine	ND	0.37	EPA 8270E	10-15-24	10-16-24	
Phenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Aniline	ND	0.19	EPA 8270E	10-15-24	10-16-24	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Chlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,3-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,4-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Benzyl alcohol	ND	0.19	EPA 8270E	10-15-24	10-16-24	
1,2-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270E	10-15-24	10-16-24	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270E	10-15-24	10-16-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270E	10-15-24	10-16-24	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Hexachloroethane	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Nitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Isophorone	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Nitrophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,4-Dimethylphenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,4-Dichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Naphthalene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
4-Chloroaniline	ND	0.19	EPA 8270E	10-15-24	10-16-24	
Hexachlorobutadiene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
1-Methylnaphthalene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Hexachlorocyclopentadiene	ND	0.19	EPA 8270E	10-15-24	10-16-24	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,3-Dichloroaniline	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Chloronaphthalene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,4-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Dimethylphthalate	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,3-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,6-Dinitrotoluene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,2-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Acenaphthylene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
3-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-16-24	



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 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP5-5.0					
Laboratory ID:	10-140-16					
2,4-Dinitrophenol	ND	0.19	EPA 8270E	10-15-24	10-16-24	
Acenaphthene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
4-Nitrophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,4-Dinitrotoluene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Dibenzofuran	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Diethylphthalate	ND	0.19	EPA 8270E	10-15-24	10-16-24	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270E	10-15-24	10-16-24	
4-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Fluorene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270E	10-15-24	10-16-24	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270E	10-15-24	10-16-24	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270E	10-15-24	10-16-24	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Hexachlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Pentachlorophenol	ND	0.19	EPA 8270E	10-15-24	10-16-24	
Phenanthrene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Anthracene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Carbazole	ND	0.037	EPA 8270E	10-15-24	10-16-24	
Di-n-butylphthalate	ND	0.19	EPA 8270E	10-15-24	10-16-24	
Fluoranthene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Pyrene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Butylbenzylphthalate	ND	0.19	EPA 8270E	10-15-24	10-16-24	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270E	10-15-24	10-16-24	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270E	10-15-24	10-16-24	
Benzo[a]anthracene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Chrysene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270E	10-15-24	10-16-24	
Di-n-octylphthalate	ND	0.19	EPA 8270E	10-15-24	10-16-24	
Benzo[b]fluoranthene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Benzo(j,k)fluoranthene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Benzo[a]pyrene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Indeno[1,2,3-cd]pyrene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Benzo[g,h,i]perylene	ND	0.0074	EPA 8270E/SIM	10-15-24	10-16-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	77	22 - 111				
Phenol-d6	80	25 - 117				
Nitrobenzene-d5	86	26 - 111				
2-Fluorobiphenyl	92	32 - 111				
2,4,6-Tribromophenol	110	26 - 130				
Terphenyl-d14	114	33 - 118				



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SEMIVOLATILE ORGANICS EPA 8270E/SIM

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP5-10					
Laboratory ID:	10-140-17					
n-Nitrosodimethylamine	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Pyridine	ND	0.37	EPA 8270E	10-15-24	10-18-24	
Phenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Aniline	ND	0.19	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Chlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,3-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,4-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Benzyl alcohol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
1,2-Dichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270E	10-15-24	10-18-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270E	10-15-24	10-18-24	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Hexachloroethane	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Nitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Isophorone	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Nitrophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,4-Dimethylphenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,4-Dichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Naphthalene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
4-Chloroaniline	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Hexachlorobutadiene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Methylnaphthalene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
1-Methylnaphthalene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Hexachlorocyclopentadiene	ND	0.19	EPA 8270E	10-15-24	10-18-24	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,3-Dichloroaniline	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Chloronaphthalene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,4-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Dimethylphthalate	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,3-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,6-Dinitrotoluene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,2-Dinitrobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Acenaphthylene	0.0079	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
3-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-18-24	



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP5-10					
Laboratory ID:	10-140-17					
2,4-Dinitrophenol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Acenaphthene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
4-Nitrophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,4-Dinitrotoluene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Dibenzofuran	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Diethylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270E	10-15-24	10-18-24	
4-Nitroaniline	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Fluorene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270E	10-15-24	10-18-24	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270E	10-15-24	10-18-24	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Hexachlorobenzene	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Pentachlorophenol	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Phenanthrene	0.015	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Anthracene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Carbazole	ND	0.037	EPA 8270E	10-15-24	10-18-24	
Di-n-butylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Fluoranthene	0.030	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Pyrene	0.039	0.037	EPA 8270E	10-15-24	10-18-24	
Butylbenzylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Benzo[a]anthracene	0.018	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Chrysene	0.022	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Di-n-octylphthalate	ND	0.19	EPA 8270E	10-15-24	10-18-24	
Benzo[b]fluoranthene	0.031	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo(j,k)fluoranthene	0.0083	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo[a]pyrene	0.026	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Indeno[1,2,3-cd]pyrene	0.024	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Dibenz[a,h]anthracene	ND	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Benzo[g,h,i]perylene	0.020	0.0075	EPA 8270E/SIM	10-15-24	10-17-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	94	22 - 111				
Phenol-d6	98	25 - 117				
Nitrobenzene-d5	93	26 - 111				
2-Fluorobiphenyl	100	32 - 111				
2,4,6-Tribromophenol	101	26 - 130				
Terphenyl-d14	110	33 - 118				



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 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1015S2					
n-Nitrosodimethylamine	ND	0.033	EPA 8270E	10-15-24	10-15-24	
Pyridine	ND	0.33	EPA 8270E	10-15-24	10-15-24	
Phenol	ND	0.033	EPA 8270E	10-15-24	10-15-24	
Aniline	ND	0.17	EPA 8270E	10-15-24	10-15-24	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270E	10-15-24	10-15-24	
2-Chlorophenol	ND	0.033	EPA 8270E	10-15-24	10-15-24	
1,3-Dichlorobenzene	ND	0.033	EPA 8270E	10-15-24	10-15-24	
1,4-Dichlorobenzene	ND	0.033	EPA 8270E	10-15-24	10-15-24	
Benzyl alcohol	ND	0.17	EPA 8270E	10-15-24	10-15-24	
1,2-Dichlorobenzene	ND	0.033	EPA 8270E	10-15-24	10-15-24	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270E	10-15-24	10-15-24	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270E	10-15-24	10-15-24	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270E	10-15-24	10-15-24	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270E	10-15-24	10-15-24	
Hexachloroethane	ND	0.033	EPA 8270E	10-15-24	10-15-24	
Nitrobenzene	ND	0.033	EPA 8270E	10-15-24	10-15-24	
Isophorone	ND	0.033	EPA 8270E	10-15-24	10-15-24	
2-Nitrophenol	ND	0.033	EPA 8270E	10-15-24	10-15-24	
2,4-Dimethylphenol	ND	0.033	EPA 8270E	10-15-24	10-15-24	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270E	10-15-24	10-15-24	
2,4-Dichlorophenol	ND	0.033	EPA 8270E	10-15-24	10-15-24	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270E	10-15-24	10-15-24	
Naphthalene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
4-Chloroaniline	ND	0.17	EPA 8270E	10-15-24	10-15-24	
Hexachlorobutadiene	ND	0.033	EPA 8270E	10-15-24	10-15-24	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270E	10-15-24	10-15-24	
2-Methylnaphthalene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
1-Methylnaphthalene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
Hexachlorocyclopentadiene	ND	0.17	EPA 8270E	10-15-24	10-15-24	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270E	10-15-24	10-15-24	
2,3-Dichloroaniline	ND	0.033	EPA 8270E	10-15-24	10-15-24	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270E	10-15-24	10-15-24	
2-Chloronaphthalene	ND	0.033	EPA 8270E	10-15-24	10-15-24	
2-Nitroaniline	ND	0.033	EPA 8270E	10-15-24	10-15-24	
1,4-Dinitrobenzene	ND	0.033	EPA 8270E	10-15-24	10-15-24	
Dimethylphthalate	ND	0.033	EPA 8270E	10-15-24	10-15-24	
1,3-Dinitrobenzene	ND	0.033	EPA 8270E	10-15-24	10-15-24	
2,6-Dinitrotoluene	ND	0.033	EPA 8270E	10-15-24	10-15-24	
1,2-Dinitrobenzene	ND	0.033	EPA 8270E	10-15-24	10-15-24	
Acenaphthylene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
3-Nitroaniline	ND	0.033	EPA 8270E	10-15-24	10-15-24	



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1015S2					
2,4-Dinitrophenol	ND	0.17	EPA 8270E	10-15-24	10-15-24	
Acenaphthene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
4-Nitrophenol	ND	0.033	EPA 8270E	10-15-24	10-15-24	
2,4-Dinitrotoluene	ND	0.033	EPA 8270E	10-15-24	10-15-24	
Dibenzofuran	ND	0.033	EPA 8270E	10-15-24	10-15-24	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270E	10-15-24	10-15-24	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270E	10-15-24	10-15-24	
Diethylphthalate	ND	0.17	EPA 8270E	10-15-24	10-15-24	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270E	10-15-24	10-15-24	
4-Nitroaniline	ND	0.033	EPA 8270E	10-15-24	10-15-24	
Fluorene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270E	10-15-24	10-15-24	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270E	10-15-24	10-15-24	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270E	10-15-24	10-15-24	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270E	10-15-24	10-15-24	
Hexachlorobenzene	ND	0.033	EPA 8270E	10-15-24	10-15-24	
Pentachlorophenol	ND	0.17	EPA 8270E	10-15-24	10-15-24	
Phenanthrene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
Anthracene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
Carbazole	ND	0.033	EPA 8270E	10-15-24	10-15-24	
Di-n-butylphthalate	ND	0.17	EPA 8270E	10-15-24	10-15-24	
Fluoranthene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
Pyrene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
Butylbenzylphthalate	ND	0.17	EPA 8270E	10-15-24	10-15-24	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270E	10-15-24	10-15-24	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270E	10-15-24	10-15-24	
Benzo[a]anthracene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
Chrysene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270E	10-15-24	10-15-24	
Di-n-octylphthalate	ND	0.17	EPA 8270E	10-15-24	10-15-24	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
Benzo[a]pyrene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270E/SIM	10-15-24	10-16-24	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	87	22 - 111				
Phenol-d6	82	25 - 117				
Nitrobenzene-d5	91	26 - 111				
2-Fluorobiphenyl	96	32 - 111				
2,4,6-Tribromophenol	105	26 - 130				
Terphenyl-d14	103	33 - 118				



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 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1015S2									
	SB	SBD	SB	SBD	SB	SBD				
n-Nitrosodimethylamine	0.387	0.502	0.667	0.667	58	75	35 - 116	26	35	
Pyridine	0.252	0.290	0.667	0.667	38	43	20 - 100	14	45	
Phenol	0.455	0.584	0.667	0.667	68	88	44 - 114	25	31	
Aniline	0.412	0.504	0.667	0.667	62	76	25 - 113	20	42	
bis(2-Chloroethyl)ether	0.424	0.556	0.667	0.667	64	83	37 - 108	27	36	
2-Chlorophenol	0.410	0.565	0.667	0.667	61	85	46 - 108	32	35	
1,3-Dichlorobenzene	0.365	0.485	0.667	0.667	55	73	41 - 100	28	38	
1,4-Dichlorobenzene	0.356	0.487	0.667	0.667	53	73	44 - 102	31	37	
Benzyl alcohol	0.482	0.595	0.667	0.667	72	89	48 - 113	21	31	
1,2-Dichlorobenzene	0.355	0.482	0.667	0.667	53	72	42 - 102	30	37	
2-Methylphenol (o-Cresol)	0.445	0.572	0.667	0.667	67	86	47 - 108	25	31	
bis(2-Chloroisopropyl)ether	0.373	0.511	0.667	0.667	56	77	29 - 118	31	36	
(3+4)-Methylphenol (m,p-Cresol)	0.487	0.583	0.667	0.667	73	87	49 - 110	18	30	
n-Nitroso-di-n-propylamine	0.458	0.543	0.667	0.667	69	81	42 - 112	17	29	
Hexachloroethane	0.362	0.514	0.667	0.667	54	77	38 - 102	35	44	
Nitrobenzene	0.448	0.546	0.667	0.667	67	82	43 - 111	20	34	
Isophorone	0.558	0.593	0.667	0.667	84	89	47 - 113	6	28	
2-Nitrophenol	0.482	0.561	0.667	0.667	72	84	45 - 115	15	32	
2,4-Dimethylphenol	0.610	0.632	0.667	0.667	91	95	46 - 118	4	31	
bis(2-Chloroethoxy)methane	0.495	0.557	0.667	0.667	74	84	46 - 110	12	32	
2,4-Dichlorophenol	0.547	0.584	0.667	0.667	82	88	55 - 105	7	30	
1,2,4-Trichlorobenzene	0.436	0.526	0.667	0.667	65	79	51 - 106	19	31	
Naphthalene	0.463	0.546	0.667	0.667	69	82	49 - 104	16	32	
4-Chloroaniline	0.498	0.510	0.667	0.667	75	76	37 - 112	2	35	
Hexachlorobutadiene	0.427	0.521	0.667	0.667	64	78	49 - 103	20	35	
4-Chloro-3-methylphenol	0.652	0.622	0.667	0.667	98	93	55 - 116	5	25	
2-Methylnaphthalene	0.470	0.502	0.667	0.667	70	75	55 - 104	7	28	
1-Methylnaphthalene	0.539	0.570	0.667	0.667	81	85	53 - 106	6	29	
Hexachlorocyclopentadiene	0.583	0.669	0.667	0.667	87	100	20 - 126	14	39	
2,4,6-Trichlorophenol	0.626	0.648	0.667	0.667	94	97	56 - 113	3	32	
2,3-Dichloroaniline	0.599	0.579	0.667	0.667	90	87	54 - 103	3	26	
2,4,5-Trichlorophenol	0.632	0.633	0.667	0.667	95	95	58 - 111	0	30	
2-Chloronaphthalene	0.587	0.596	0.667	0.667	88	89	56 - 106	2	29	
2-Nitroaniline	0.611	0.585	0.667	0.667	92	88	44 - 129	4	28	
1,4-Dinitrobenzene	0.625	0.572	0.667	0.667	94	86	51 - 123	9	30	
Dimethylphthalate	0.667	0.650	0.667	0.667	100	97	58 - 110	3	26	
1,3-Dinitrobenzene	0.670	0.625	0.667	0.667	100	94	55 - 118	7	27	
2,6-Dinitrotoluene	0.659	0.676	0.667	0.667	99	101	56 - 114	3	26	
1,2-Dinitrobenzene	0.684	0.647	0.667	0.667	103	97	48 - 126	6	27	
Acenaphthylene	0.696	0.680	0.667	0.667	104	102	57 - 110	2	26	
3-Nitroaniline	0.599	0.559	0.667	0.667	90	84	50 - 117	7	27	



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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

page 2 of 2

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1015S2									
	SB	SBD	SB	SBD	SB	SBD				
2,4-Dinitrophenol	0.711	0.660	0.667	0.667	107	99	20 - 134	7	40	
Acenaphthene	0.605	0.584	0.667	0.667	91	88	58 - 106	4	24	
4-Nitrophenol	0.849	0.811	0.667	0.667	127	122	41 - 134	5	30	
2,4-Dinitrotoluene	0.692	0.658	0.667	0.667	104	99	54 - 116	5	25	
Dibenzofuran	0.641	0.618	0.667	0.667	96	93	58 - 107	4	26	
2,3,5,6-Tetrachlorophenol	0.685	0.674	0.667	0.667	103	101	47 - 120	2	28	
2,3,4,6-Tetrachlorophenol	0.682	0.675	0.667	0.667	102	101	47 - 111	1	31	
Diethylphthalate	0.691	0.645	0.667	0.667	104	97	58 - 113	7	26	
4-Chlorophenyl-phenylether	0.716	0.673	0.667	0.667	107	101	59 - 109	6	26	
4-Nitroaniline	0.635	0.641	0.667	0.667	95	96	49 - 116	1	26	
Fluorene	0.689	0.650	0.667	0.667	103	97	59 - 109	6	26	
4,6-Dinitro-2-methylphenol	0.715	0.665	0.667	0.667	107	100	20 - 129	7	33	
n-Nitrosodiphenylamine	0.645	0.622	0.667	0.667	97	93	58 - 107	4	22	
1,2-Diphenylhydrazine	0.664	0.645	0.667	0.667	100	97	58 - 108	3	25	
4-Bromophenyl-phenylether	0.696	0.656	0.667	0.667	104	98	62 - 107	6	24	
Hexachlorobenzene	0.705	0.651	0.667	0.667	106	98	62 - 107	8	25	
Pentachlorophenol	0.681	0.657	0.667	0.667	102	99	30 - 125	4	32	
Phenanthrene	0.673	0.628	0.667	0.667	101	94	58 - 110	7	25	
Anthracene	0.697	0.638	0.667	0.667	104	96	60 - 111	9	24	
Carbazole	0.660	0.626	0.667	0.667	99	94	57 - 108	5	24	
Di-n-butylphthalate	0.664	0.656	0.667	0.667	100	98	59 - 115	1	25	
Fluoranthene	0.661	0.654	0.667	0.667	99	98	60 - 112	1	25	
Pyrene	0.663	0.643	0.667	0.667	99	96	55 - 118	3	25	
Butylbenzylphthalate	0.668	0.657	0.667	0.667	100	99	55 - 117	2	26	
bis-2-Ethylhexyladipate	0.642	0.632	0.667	0.667	96	95	49 - 122	2	25	
3,3'-Dichlorobenzidine	0.617	0.609	0.667	0.667	93	91	48 - 110	1	30	
Benzo[a]anthracene	0.658	0.643	0.667	0.667	99	96	57 - 110	2	26	
Chrysene	0.634	0.633	0.667	0.667	95	95	56 - 112	0	24	
bis(2-Ethylhexyl)phthalate	0.650	0.630	0.667	0.667	97	94	52 - 124	3	26	
Di-n-octylphthalate	0.645	0.634	0.667	0.667	97	95	55 - 123	2	28	
Benzo[b]fluoranthene	0.692	0.663	0.667	0.667	104	99	59 - 111	4	28	
Benzo(j,k)fluoranthene	0.677	0.697	0.667	0.667	101	104	59 - 112	3	25	
Benzo[a]pyrene	0.708	0.676	0.667	0.667	106	101	60 - 111	5	25	
Indeno[1,2,3-cd]pyrene	0.694	0.673	0.667	0.667	104	101	58 - 121	3	26	
Dibenz[a,h]anthracene	0.704	0.659	0.667	0.667	106	99	61 - 115	7	25	
Benzo[g,h,i]perylene	0.676	0.649	0.667	0.667	101	97	59 - 112	4	25	
Surrogate:										
2-Fluorophenol					62	81	22 - 111			
Phenol-d6					66	80	25 - 117			
Nitrobenzene-d5					67	81	26 - 111			
2-Fluorobiphenyl					85	89	32 - 111			
2,4,6-Tribromophenol					114	101	26 - 130			
Terphenyl-d14					102	99	33 - 118			



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

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Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

PCBs EPA 8082A

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: HA24-TP6-15						
Laboratory ID:	10-140-03					
Aroclor 1016	ND	0.075	EPA 8082A	10-14-24	10-15-24	
Aroclor 1221	ND	0.075	EPA 8082A	10-14-24	10-15-24	
Aroclor 1232	ND	0.075	EPA 8082A	10-14-24	10-15-24	
Aroclor 1242	ND	0.075	EPA 8082A	10-14-24	10-15-24	
Aroclor 1248	ND	0.075	EPA 8082A	10-14-24	10-15-24	
Aroclor 1254	ND	0.075	EPA 8082A	10-14-24	10-15-24	
Aroclor 1260	ND	0.075	EPA 8082A	10-14-24	10-15-24	
Aroclor 1262	ND	0.075	EPA 8082A	10-14-24	10-15-24	
Aroclor 1268	ND	0.075	EPA 8082A	10-14-24	10-15-24	
Surrogate:	Percent Recovery	Control Limits				
DCB	78	40-134				
Client ID: HA24-TP2-10						
Laboratory ID:	10-140-08					
Aroclor 1016	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1221	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1232	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1242	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1248	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1254	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1260	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1262	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1268	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Surrogate:	Percent Recovery	Control Limits				
DCB	93	40-134				
Client ID: HA24-TP5-5.0						
Laboratory ID:	10-140-16					
Aroclor 1016	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1221	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1232	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1242	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1248	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1254	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1260	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1262	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Aroclor 1268	ND	0.056	EPA 8082A	10-14-24	10-14-24	
Surrogate:	Percent Recovery	Control Limits				
DCB	94	40-134				



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1014S1					
Aroclor 1016	ND	0.050	EPA 8082A	10-14-24	10-14-24	
Aroclor 1221	ND	0.050	EPA 8082A	10-14-24	10-14-24	
Aroclor 1232	ND	0.050	EPA 8082A	10-14-24	10-14-24	
Aroclor 1242	ND	0.050	EPA 8082A	10-14-24	10-14-24	
Aroclor 1248	ND	0.050	EPA 8082A	10-14-24	10-14-24	
Aroclor 1254	ND	0.050	EPA 8082A	10-14-24	10-14-24	
Aroclor 1260	ND	0.050	EPA 8082A	10-14-24	10-14-24	
Aroclor 1262	ND	0.050	EPA 8082A	10-14-24	10-14-24	
Aroclor 1268	ND	0.050	EPA 8082A	10-14-24	10-14-24	
Surrogate:	Percent Recovery	Control Limits				
DCB	83	40-134				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES										
Laboratory ID:	10-140-08									
	MS	MSD	MS	MSD		MS	MSD			
Aroclor 1260	0.456	0.390	0.500	0.500	ND	91	78	40-111	16	24
Surrogate:										
DCB						92	84	40-134		

SPIKE BLANKS

Laboratory ID:	SB1014S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.435	0.413	0.500	0.500	N/A	87	83	60-115	5	23	
Surrogate:											
DCB						85	85	40-134			



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP6-15					
Laboratory ID:	10-140-03					
alpha-BHC	ND	7.5	EPA 8081B	10-14-24	10-15-24	
gamma-BHC	ND	7.5	EPA 8081B	10-14-24	10-15-24	
beta-BHC	ND	7.5	EPA 8081B	10-14-24	10-15-24	
delta-BHC	ND	7.5	EPA 8081B	10-14-24	10-15-24	
Heptachlor	ND	7.5	EPA 8081B	10-14-24	10-15-24	
Aldrin	ND	7.5	EPA 8081B	10-14-24	10-15-24	
Heptachlor epoxide	ND	7.5	EPA 8081B	10-14-24	10-15-24	
gamma-Chlordane	ND	15	EPA 8081B	10-14-24	10-15-24	
alpha-Chlordane	ND	15	EPA 8081B	10-14-24	10-15-24	
4,4'-DDE	ND	15	EPA 8081B	10-14-24	10-15-24	
Endosulfan I	ND	7.5	EPA 8081B	10-14-24	10-15-24	
Dieldrin	ND	15	EPA 8081B	10-14-24	10-15-24	
Endrin	ND	15	EPA 8081B	10-14-24	10-15-24	
4,4'-DDD	ND	15	EPA 8081B	10-14-24	10-15-24	
Endosulfan II	ND	15	EPA 8081B	10-14-24	10-15-24	
4,4'-DDT	ND	15	EPA 8081B	10-14-24	10-15-24	
Endrin aldehyde	ND	15	EPA 8081B	10-14-24	10-15-24	
Methoxychlor	ND	15	EPA 8081B	10-14-24	10-15-24	
Endosulfan sulfate	ND	15	EPA 8081B	10-14-24	10-15-24	
Endrin ketone	ND	15	EPA 8081B	10-14-24	10-15-24	
Toxaphene	ND	75	EPA 8081B	10-14-24	10-15-24	
Tech Chlordane	ND	75	EPA 8081B	10-14-24	10-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>53</i>	<i>27-122</i>				
<i>Decachlorobiphenyl</i>	<i>51</i>	<i>22-122</i>				



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP2-10					
Laboratory ID:	10-140-08					
alpha-BHC	ND	5.6	EPA 8081B	10-14-24	10-15-24	
gamma-BHC	ND	5.6	EPA 8081B	10-14-24	10-15-24	
beta-BHC	ND	5.6	EPA 8081B	10-14-24	10-15-24	
delta-BHC	ND	5.6	EPA 8081B	10-14-24	10-15-24	
Heptachlor	ND	5.6	EPA 8081B	10-14-24	10-15-24	
Aldrin	ND	5.6	EPA 8081B	10-14-24	10-15-24	
Heptachlor epoxide	ND	5.6	EPA 8081B	10-14-24	10-15-24	
gamma-Chlordane	ND	11	EPA 8081B	10-14-24	10-15-24	
alpha-Chlordane	ND	11	EPA 8081B	10-14-24	10-15-24	
4,4'-DDE	ND	11	EPA 8081B	10-14-24	10-15-24	
Endosulfan I	ND	5.6	EPA 8081B	10-14-24	10-15-24	
Dieldrin	ND	11	EPA 8081B	10-14-24	10-15-24	
Endrin	ND	11	EPA 8081B	10-14-24	10-15-24	
4,4'-DDD	ND	11	EPA 8081B	10-14-24	10-15-24	
Endosulfan II	ND	11	EPA 8081B	10-14-24	10-15-24	
4,4'-DDT	ND	11	EPA 8081B	10-14-24	10-15-24	
Endrin aldehyde	ND	11	EPA 8081B	10-14-24	10-15-24	
Methoxychlor	ND	11	EPA 8081B	10-14-24	10-15-24	
Endosulfan sulfate	ND	11	EPA 8081B	10-14-24	10-15-24	
Endrin ketone	ND	11	EPA 8081B	10-14-24	10-15-24	
Toxaphene	ND	56	EPA 8081B	10-14-24	10-15-24	
Tech Chlordane	ND	56	EPA 8081B	10-14-24	10-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>70</i>	<i>27-122</i>				
<i>Decachlorobiphenyl</i>	<i>66</i>	<i>22-122</i>				



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HA24-TP5-5.0					
Laboratory ID:	10-140-16					
alpha-BHC	ND	5.6	EPA 8081B	10-14-24	10-15-24	
gamma-BHC	ND	5.6	EPA 8081B	10-14-24	10-15-24	
beta-BHC	ND	5.6	EPA 8081B	10-14-24	10-15-24	
delta-BHC	ND	5.6	EPA 8081B	10-14-24	10-15-24	
Heptachlor	ND	5.6	EPA 8081B	10-14-24	10-15-24	
Aldrin	ND	5.6	EPA 8081B	10-14-24	10-15-24	
Heptachlor epoxide	ND	5.6	EPA 8081B	10-14-24	10-15-24	
gamma-Chlordane	ND	11	EPA 8081B	10-14-24	10-15-24	
alpha-Chlordane	ND	11	EPA 8081B	10-14-24	10-15-24	
4,4'-DDE	ND	11	EPA 8081B	10-14-24	10-15-24	
Endosulfan I	ND	5.6	EPA 8081B	10-14-24	10-15-24	
Dieldrin	ND	11	EPA 8081B	10-14-24	10-15-24	
Endrin	ND	11	EPA 8081B	10-14-24	10-15-24	
4,4'-DDD	ND	11	EPA 8081B	10-14-24	10-15-24	
Endosulfan II	ND	11	EPA 8081B	10-14-24	10-15-24	
4,4'-DDT	ND	11	EPA 8081B	10-14-24	10-15-24	
Endrin aldehyde	ND	11	EPA 8081B	10-14-24	10-15-24	
Methoxychlor	ND	11	EPA 8081B	10-14-24	10-15-24	
Endosulfan sulfate	ND	11	EPA 8081B	10-14-24	10-15-24	
Endrin ketone	ND	11	EPA 8081B	10-14-24	10-15-24	
Toxaphene	ND	56	EPA 8081B	10-14-24	10-15-24	
Tech Chlordane	ND	56	EPA 8081B	10-14-24	10-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>75</i>	<i>27-122</i>				
<i>Decachlorobiphenyl</i>	<i>68</i>	<i>22-122</i>				



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1014S1					
alpha-BHC	ND	5.0	EPA 8081B	10-14-24	10-15-24	
gamma-BHC	ND	5.0	EPA 8081B	10-14-24	10-15-24	
beta-BHC	ND	5.0	EPA 8081B	10-14-24	10-15-24	
delta-BHC	ND	5.0	EPA 8081B	10-14-24	10-15-24	
Heptachlor	ND	5.0	EPA 8081B	10-14-24	10-15-24	
Aldrin	ND	5.0	EPA 8081B	10-14-24	10-15-24	
Heptachlor epoxide	ND	5.0	EPA 8081B	10-14-24	10-15-24	
gamma-Chlordane	ND	10	EPA 8081B	10-14-24	10-15-24	
alpha-Chlordane	ND	10	EPA 8081B	10-14-24	10-15-24	
4,4'-DDE	ND	10	EPA 8081B	10-14-24	10-15-24	
Endosulfan I	ND	5.0	EPA 8081B	10-14-24	10-15-24	
Dieldrin	ND	10	EPA 8081B	10-14-24	10-15-24	
Endrin	ND	10	EPA 8081B	10-14-24	10-15-24	
4,4'-DDD	ND	10	EPA 8081B	10-14-24	10-15-24	
Endosulfan II	ND	10	EPA 8081B	10-14-24	10-15-24	
4,4'-DDT	ND	10	EPA 8081B	10-14-24	10-15-24	
Endrin aldehyde	ND	10	EPA 8081B	10-14-24	10-15-24	
Methoxychlor	ND	10	EPA 8081B	10-14-24	10-15-24	
Endosulfan sulfate	ND	10	EPA 8081B	10-14-24	10-15-24	
Endrin ketone	ND	10	EPA 8081B	10-14-24	10-15-24	
Toxaphene	ND	50	EPA 8081B	10-14-24	10-15-24	
Tech Chlordane	ND	50	EPA 8081B	10-14-24	10-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	68	27-122				
<i>Decachlorobiphenyl</i>	72	22-122				



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-140-16										
	MS	MSD	MS	MSD		MS	MSD				
alpha-BHC	91.0	69.8	100	100	ND	91	70	31-115	26	31	
gamma-BHC	92.2	72.0	100	100	ND	92	72	32-121	25	35	
beta-BHC	86.3	67.8	100	100	ND	86	68	25-112	24	37	
delta-BHC	95.1	79.2	100	100	ND	95	79	16-119	18	39	
Heptachlor	90.3	70.0	100	100	ND	90	70	27-109	25	33	
Aldrin	86.4	67.8	100	100	ND	86	68	27-113	24	34	
Heptachlor epoxide	84.3	66.9	100	100	ND	84	67	27-116	23	37	
gamma-Chlordane	90.2	72.7	100	100	ND	90	73	23-116	21	37	
alpha-Chlordane	88.5	71.7	100	100	ND	89	72	23-113	21	36	
4,4'-DDE	82.4	66.5	100	100	ND	82	67	20-111	21	37	
Endosulfan I	86.0	68.5	100	100	ND	86	69	25-117	23	38	
Dieldrin	85.7	69.5	100	100	ND	86	70	25-120	21	35	
Endrin	93.6	75.7	100	100	ND	94	76	26-119	21	34	
4,4'-DDD	90.2	72.2	100	100	ND	90	72	24-132	22	36	
Endosulfan II	83.6	67.2	100	100	ND	84	67	24-117	22	34	
4,4'-DDT	102	78.8	100	100	ND	102	79	20-125	26	46	
Endrin aldehyde	80.1	65.0	100	100	ND	80	65	23-115	21	34	
Methoxychlor	92.8	69.7	100	100	ND	93	70	20-131	28	45	
Endosulfan sulfate	89.9	73.8	100	100	ND	90	74	23-114	20	35	
Endrin ketone	95.6	74.9	100	100	ND	96	75	21-119	24	38	
Surrogate:											
Tetrachloro-m-xylene						88	65	27-122			
Decachlorobiphenyl						82	74	22-122			



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1014S1										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	79.3	79.3	100	100	N/A	79	79	44-127	0	20	
gamma-BHC	79.4	79.2	100	100	N/A	79	79	47-127	0	20	
beta-BHC	74.1	73.4	100	100	N/A	74	73	44-120	1	20	
delta-BHC	79.3	77.1	100	100	N/A	79	77	44-131	3	23	
Heptachlor	82.2	82.2	100	100	N/A	82	82	47-120	0	19	
Aldrin	77.9	77.8	100	100	N/A	78	78	50-119	0	20	
Heptachlor epoxide	77.5	75.9	100	100	N/A	78	76	49-115	2	18	
gamma-Chlordane	82.4	82.3	100	100	N/A	82	82	51-118	0	20	
alpha-Chlordane	79.2	79.2	100	100	N/A	79	79	46-119	0	20	
4,4'-DDE	73.9	72.8	100	100	N/A	74	73	52-119	1	19	
Endosulfan I	76.9	77.0	100	100	N/A	77	77	51-115	0	20	
Dieldrin	79.2	78.1	100	100	N/A	79	78	50-118	1	18	
Endrin	81.7	84.1	100	100	N/A	82	84	51-116	3	18	
4,4'-DDD	75.5	75.4	100	100	N/A	76	75	51-120	0	20	
Endosulfan II	75.4	75.9	100	100	N/A	75	76	50-117	1	21	
4,4'-DDT	80.9	79.1	100	100	N/A	81	79	39-139	2	28	
Endrin aldehyde	75.5	74.3	100	100	N/A	76	74	47-116	2	19	
Methoxychlor	92.0	90.4	100	100	N/A	92	90	37-134	2	25	
Endosulfan sulfate	82.5	82.3	100	100	N/A	83	82	46-123	0	26	
Endrin ketone	91.0	88.4	100	100	N/A	91	88	47-126	3	21	
Surrogate:											
Tetrachloro-m-xylene						78	78	27-122			
Decachlorobiphenyl						85	84	22-122			



Date of Report: October 23, 2024
 Samples Submitted: October 9, 2024
 Laboratory Reference: 2410-140
 Project: 0209066-000

TOTAL METALS
EPA EPA 6010D/6020B/7471B

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: HA24-TP6-5.0						
Laboratory ID: 10-140-01						
Arsenic	2.9	0.29	EPA 6020B	10-18-24	10-18-24	
Cadmium	ND	0.58	EPA 6010D	10-18-24	10-18-24	
Chromium	25	0.58	EPA 6010D	10-18-24	10-18-24	
Copper	18	1.2	EPA 6010D	10-18-24	10-18-24	
Lead	13	0.29	EPA 6020B	10-18-24	10-18-24	
Mercury	ND	0.29	EPA 7471B	10-21-24	10-21-24	
Nickel	36	2.9	EPA 6010D	10-18-24	10-18-24	
Zinc	41	2.9	EPA 6010D	10-18-24	10-18-24	

Client ID: HA24-TP6-10						
Laboratory ID: 10-140-02						
Arsenic	55	0.38	EPA 6020B	10-18-24	10-18-24	
Cadmium	9.6	0.75	EPA 6010D	10-18-24	10-18-24	
Chromium	43	0.75	EPA 6010D	10-18-24	10-18-24	
Copper	1200	15	EPA 6010D	10-18-24	10-21-24	
Lead	1300	9.4	EPA 6020B	10-18-24	10-18-24	
Mercury	ND	0.38	EPA 7471B	10-21-24	10-21-24	
Nickel	35	3.8	EPA 6010D	10-18-24	10-18-24	
Zinc	2400	38	EPA 6010D	10-18-24	10-21-24	

Client ID: HA24-TP6-15						
Laboratory ID: 10-140-03						
Arsenic	71	0.38	EPA 6020B	10-18-24	10-18-24	
Cadmium	6.1	0.75	EPA 6010D	10-18-24	10-18-24	
Chromium	27	0.75	EPA 6010D	10-18-24	10-18-24	
Copper	360	1.5	EPA 6010D	10-18-24	10-18-24	
Lead	1600	9.4	EPA 6020B	10-18-24	10-18-24	
Mercury	ND	0.38	EPA 7471B	10-21-24	10-21-24	
Nickel	21	3.8	EPA 6010D	10-18-24	10-18-24	
Zinc	1500	3.8	EPA 6010D	10-18-24	10-18-24	



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 Project: 0209066-000

TOTAL METALS
EPA 6010D/6020B/7471B

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: HA24-TP1-5.0						
Laboratory ID: 10-140-04						
Arsenic	2.2	0.28	EPA 6020B	10-18-24	10-18-24	
Cadmium	ND	0.56	EPA 6010D	10-18-24	10-18-24	
Chromium	21	0.56	EPA 6010D	10-18-24	10-18-24	
Copper	17	1.1	EPA 6010D	10-18-24	10-18-24	
Lead	6.4	0.28	EPA 6020B	10-18-24	10-18-24	
Mercury	ND	0.28	EPA 7471B	10-21-24	10-21-24	
Nickel	34	2.8	EPA 6010D	10-18-24	10-18-24	
Zinc	32	2.8	EPA 6010D	10-18-24	10-18-24	

Client ID: HA24-TP1-15						
Laboratory ID: 10-140-06						
Arsenic	6.5	0.33	EPA 6020B	10-18-24	10-18-24	
Cadmium	ND	0.65	EPA 6010D	10-18-24	10-18-24	
Chromium	20	0.65	EPA 6010D	10-18-24	10-18-24	
Copper	39	1.3	EPA 6010D	10-18-24	10-18-24	
Lead	91	1.6	EPA 6020B	10-18-24	10-18-24	
Mercury	ND	0.33	EPA 7471B	10-21-24	10-21-24	
Nickel	25	3.3	EPA 6010D	10-18-24	10-18-24	
Zinc	310	3.3	EPA 6010D	10-18-24	10-18-24	

Client ID: HA24-TP2-10						
Laboratory ID: 10-140-08						
Arsenic	2.6	0.28	EPA 6020B	10-18-24	10-18-24	
Cadmium	ND	0.56	EPA 6010D	10-18-24	10-18-24	
Chromium	24	0.56	EPA 6010D	10-18-24	10-18-24	
Copper	16	1.1	EPA 6010D	10-18-24	10-18-24	
Lead	17	0.28	EPA 6020B	10-18-24	10-18-24	
Mercury	ND	0.28	EPA 7471B	10-21-24	10-21-24	
Nickel	34	2.8	EPA 6010D	10-18-24	10-18-24	
Zinc	43	2.8	EPA 6010D	10-18-24	10-18-24	



Date of Report: October 23, 2024
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 Project: 0209066-000

TOTAL METALS
EPA 6010D/6020B/7471B

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: HA24-TP3-5.0						
Laboratory ID: 10-140-10						
Arsenic	2.2	0.27	EPA 6020B	10-18-24	10-18-24	
Cadmium	ND	0.55	EPA 6010D	10-18-24	10-18-24	
Chromium	25	0.55	EPA 6010D	10-18-24	10-18-24	
Copper	16	1.1	EPA 6010D	10-18-24	10-18-24	
Lead	4.1	0.27	EPA 6020B	10-18-24	10-18-24	
Mercury	ND	0.27	EPA 7471B	10-21-24	10-21-24	
Nickel	37	2.7	EPA 6010D	10-18-24	10-18-24	
Zinc	31	2.7	EPA 6010D	10-18-24	10-18-24	

Client ID: HA24-TP3-10						
Laboratory ID: 10-140-11						
Arsenic	3.6	0.28	EPA 6020B	10-18-24	10-18-24	
Cadmium	0.97	0.56	EPA 6010D	10-18-24	10-18-24	
Chromium	27	0.56	EPA 6010D	10-18-24	10-18-24	
Copper	34	1.1	EPA 6010D	10-18-24	10-18-24	
Lead	94	1.4	EPA 6020B	10-18-24	10-18-24	
Mercury	ND	0.28	EPA 7471B	10-21-24	10-21-24	
Nickel	37	2.8	EPA 6010D	10-18-24	10-18-24	
Zinc	140	2.8	EPA 6010D	10-18-24	10-18-24	

Client ID: HA24-TP4-5.0						
Laboratory ID: 10-140-13						
Arsenic	1.8	0.28	EPA 6020B	10-18-24	10-18-24	
Cadmium	ND	0.55	EPA 6010D	10-18-24	10-18-24	
Chromium	20	0.55	EPA 6010D	10-18-24	10-18-24	
Copper	13	1.1	EPA 6010D	10-18-24	10-18-24	
Lead	2.4	0.28	EPA 6020B	10-18-24	10-18-24	
Mercury	ND	0.28	EPA 7471B	10-21-24	10-21-24	
Nickel	33	2.8	EPA 6010D	10-18-24	10-18-24	
Zinc	25	2.8	EPA 6010D	10-18-24	10-18-24	



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TOTAL METALS
EPA 6010D/6020B/7471B

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: HA24-TP4-10						
Laboratory ID: 10-140-14						
Arsenic	2.8	0.28	EPA 6020B	10-18-24	10-18-24	
Cadmium	ND	0.55	EPA 6010D	10-18-24	10-18-24	
Chromium	19	0.55	EPA 6010D	10-18-24	10-18-24	
Copper	17	1.1	EPA 6010D	10-18-24	10-18-24	
Lead	28	0.28	EPA 6020B	10-18-24	10-18-24	
Mercury	ND	0.28	EPA 7471B	10-21-24	10-21-24	
Nickel	28	2.8	EPA 6010D	10-18-24	10-18-24	
Zinc	48	2.8	EPA 6010D	10-18-24	10-18-24	

Client ID: HA24-TP5-5.0						
Laboratory ID: 10-140-16						
Arsenic	3.6	0.28	EPA 6020B	10-18-24	10-18-24	
Cadmium	ND	0.56	EPA 6010D	10-18-24	10-18-24	
Chromium	39	0.56	EPA 6010D	10-18-24	10-18-24	
Copper	26	1.1	EPA 6010D	10-18-24	10-18-24	
Lead	5.6	0.28	EPA 6020B	10-18-24	10-18-24	
Mercury	ND	0.28	EPA 7471B	10-21-24	10-21-24	
Nickel	56	2.8	EPA 6010D	10-18-24	10-18-24	
Zinc	49	2.8	EPA 6010D	10-18-24	10-18-24	

Client ID: HA24-TP5-10						
Laboratory ID: 10-140-17						
Arsenic	3.2	0.28	EPA 6020B	10-18-24	10-18-24	
Cadmium	ND	0.56	EPA 6010D	10-18-24	10-18-24	
Chromium	19	0.56	EPA 6010D	10-18-24	10-18-24	
Copper	20	1.1	EPA 6010D	10-18-24	10-18-24	
Lead	31	0.28	EPA 6020B	10-18-24	10-18-24	
Mercury	ND	0.28	EPA 7471B	10-21-24	10-21-24	
Nickel	30	2.8	EPA 6010D	10-18-24	10-18-24	
Zinc	51	2.8	EPA 6010D	10-18-24	10-18-24	



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 Project: 0209066-000

TOTAL METALS
EPA 6010D/6020B/7471B
QUALITY CONTROL

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1018SM1					
Cadmium	ND	0.50	EPA 6010D	10-18-24	10-18-24	
Chromium	ND	0.50	EPA 6010D	10-18-24	10-18-24	
Copper	ND	1.0	EPA 6010D	10-18-24	10-18-24	
Nickel	ND	2.5	EPA 6010D	10-18-24	10-18-24	
Zinc	ND	2.5	EPA 6010D	10-18-24	10-18-24	
Laboratory ID:	MB1018SM1					
Arsenic	ND	0.25	EPA 6020B	10-18-24	10-18-24	
Lead	ND	0.25	EPA 6020B	10-18-24	10-18-24	
Laboratory ID:	MB1021S1					
Mercury	ND	0.25	EPA 7471B	10-21-24	10-21-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-140-08							
	ORIG	DUP						
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	21.7	18.0	NA	NA	NA	19	20	
Copper	14.8	14.2	NA	NA	NA	4	20	
Nickel	30.7	27.9	NA	NA	NA	9	20	
Zinc	38.6	35.9	NA	NA	NA	7	20	
Laboratory ID:	10-140-08							
Arsenic	2.38	2.43	NA	NA	NA	2	20	
Lead	15.0	16.9	NA	NA	NA	12	20	
Laboratory ID:	10-207-04							
Mercury	ND	ND	NA	NA	NA	NA	20	



Date of Report: October 23, 2024
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TOTAL METALS
EPA 6010D/6020B/7471B
QUALITY CONTROL

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	Limit	Flags
MATRIX SPIKES										
Laboratory ID:	10-140-08									
	MS	MSD	MS	MSD		MS	MSD			
Cadmium	46.5	46.9	50.0	50.0	ND	93	94	75-125	1	20
Chromium	110	111	100	100	21.7	88	89	75-125	1	20
Copper	61.0	62.0	50.0	50.0	14.8	93	95	75-125	2	20
Nickel	118	121	100	100	30.7	87	90	75-125	3	20
Zinc	128	128	100	100	38.6	89	89	75-125	0	20
Laboratory ID:	10-140-08									
Arsenic	89.5	94.0	100	100	2.38	87	92	75-125	5	20
Lead	247	250	250	250	15.0	93	94	75-125	1	20
Laboratory ID:	10-207-04									
Mercury	0.611	0.550	0.500	0.500	0.0787	106	94	80-120	11	20
SPIKE BLANK										
Laboratory ID:	SB1018SM1									
Cadmium	51.0		50.0		N/A	102		80-120		
Chromium	99.5		100		N/A	100		80-120		
Copper	54.0		50.0		N/A	108		80-120		
Nickel	103		100		N/A	103		80-120		
Zinc	101		100		N/A	101		80-120		
Laboratory ID:	SB1018SM1									
Arsenic	103		100		N/A	103		80-120		
Lead	261		250		N/A	104		80-120		
Laboratory ID:	SB1021S1									
Mercury	0.491		0.500		N/A	98		80-120		



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% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
HA24-TP6-5.0	10-140-01	13	10-12-24
HA24-TP6-10	10-140-02	33	10-12-24
HA24-TP6-15	10-140-03	34	10-12-24
HA24-TP1-5.0	10-140-04	11	10-12-24
HA24-TP1-15	10-140-06	23	10-12-24
HA24-TP2-10	10-140-08	10	10-12-24
HA24-TP3-5.0	10-140-10	9	10-12-24
HA24-TP3-10	10-140-11	10	10-12-24
HA24-TP4-5.0	10-140-13	9	10-12-24
HA24-TP4-10	10-140-14	10	10-12-24
HA24-TP5-5.0	10-140-16	10	10-12-24
HA24-TP5-10	10-140-17	11	10-12-24





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
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Chain of Custody

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Company: H+A

Project Number: 0209066-000

Project Name: Everett Smelter

Project Manager: Andrew Kaparos

Sampled by: Alasdair Gourlay

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)

☐ _____ (other)

Laboratory Number: 10-140

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021) ☐ 8260 ☐	NWTPH-Gx	NWTPH-Dx (SG Clean-up) ☐	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals + Cu, Ni, Zn	TCLP Metals	HEM (oil and grease) 1664	% Moisture
1	HA24-TP6-5.0	10/4/24	0910	Soil	5			X	X	X			X							X			X
2	HA24-TP6-10		1000	Soil				X	X	X			X							X			X
3	HA24-TP6-15		1030	Soil				X	X	X			X		X	X				X			X
4	HA24-TP1-5.0		1110	Soil				X	X	X			X							X			X
5	HA24-TP1-10		1125																				
6	HA24-TP1-15		1145					X	X	X			X							X			X
7	HA24-TP2-5.0		1230																				
8	HA24-TP2-10		1250					X	X	X			X		X	X				X			X
9	HA24-TP2-15		1300																				
10	HA24-TP3-5.0		1335					X	X	X			X							X			X

Signature	Company	Date	Time	Comments/Special Instructions
<u>Alasdair Gourlay</u>	<u>H+A</u>	<u>10/9/24</u>	<u>1448</u>	X - Added 10/11/24. DB (STA) <u>Hold for analysis</u> HA24-TP6-10 > Matrix is HA24-TP6-15 > soil, but it is "sudge"-like
<u>Alasdair Gourlay</u>	<u>OSI</u>	<u>10/9/24</u>	<u>1448</u>	
Reviewed/Date				Data Package: Standard ☐ Level III ☐ Level IV ☐ Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐



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Chain of Custody

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Company: H+A

Project Number: 0209066-000

Project Name: Everett Smelter

Project Manager: Andrew Kaparos

Sampled by: Alasdair Gourlay

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)

☐ _____ (other)

Laboratory Number: 10-140

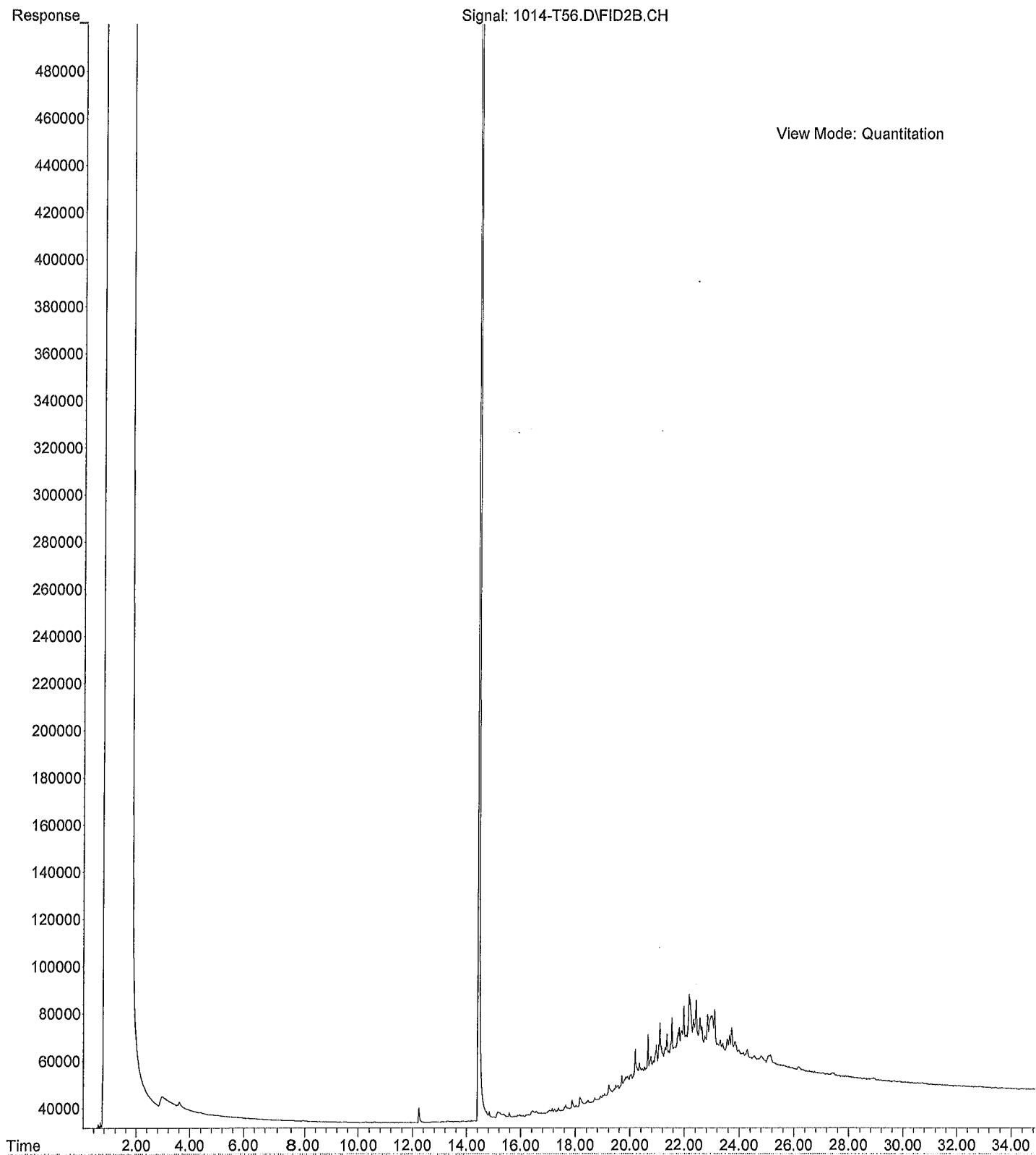
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	HA24-TP3-10	10/4/24	1345	Soil	5
12	HA24-TP3-15		1400		
13	HA24-TP4-5.0		1440		
14	HA24-TP4-10		1455		
15	HA24-TP4-15		1505		
16	HA24-TP5-5.0		1545		
17	HA24-TP5-10		1555		
18	HA24-TP5-15		1610		

NWTPH-HCID	NWTPH-Gx/BTEX (8021) 8260	NWTPH-Gx	NWTPH-Dx (SG Clean-up)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total PCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
		X	X	X			X							X			X
		X	X	X			X							X			X
		X	X	X			X							X			X
		X	X	X			X		X	X				X			X
		X	X	X			X							X			X

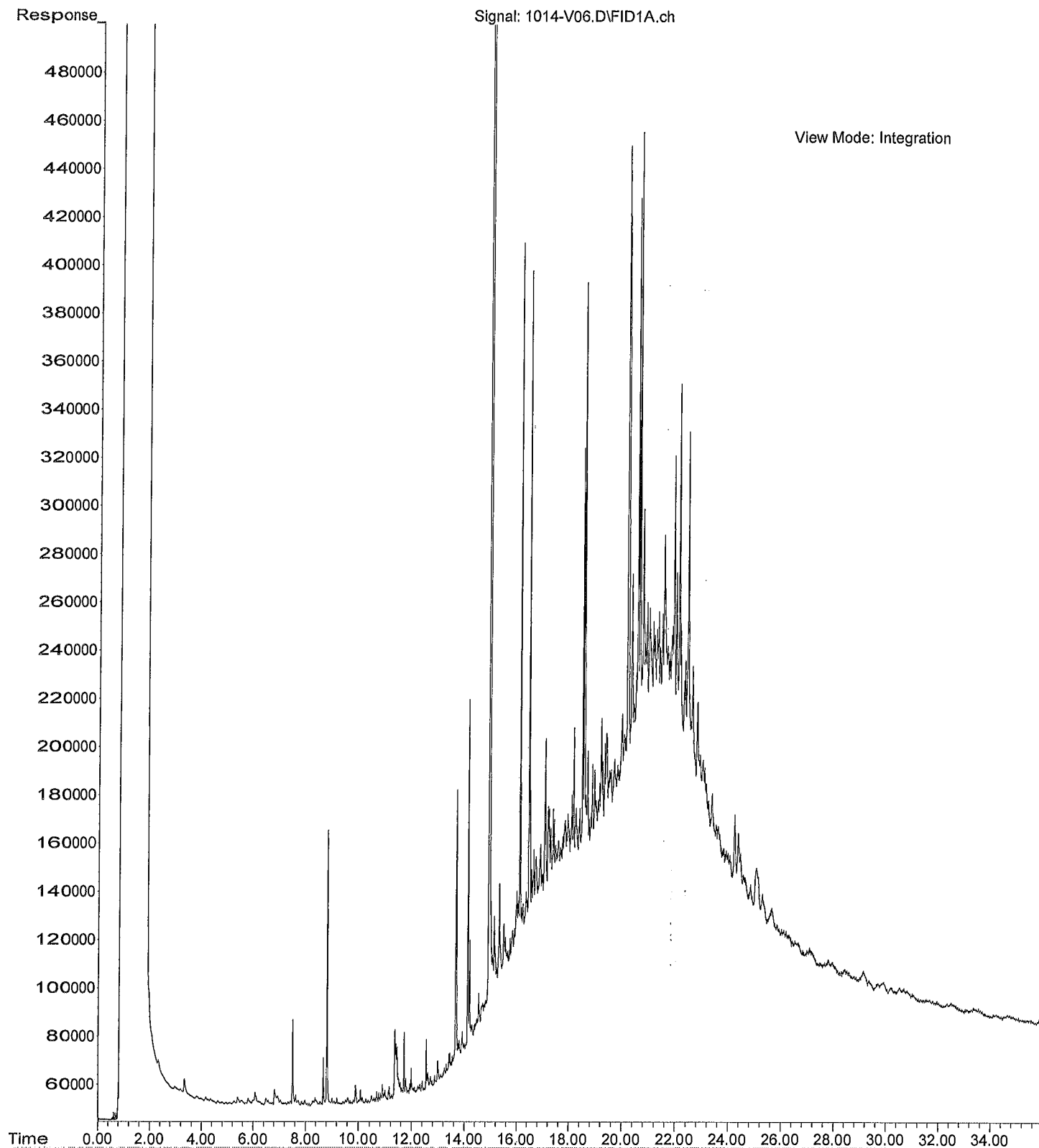
Alasdair Gourlay

Signature	Company	Date	Time	Comments/Special Instructions
<u>Alasdair Gourlay</u>	<u>H+A</u>	<u>10/4/24</u>	<u>1443</u>	<u>Hold for analysis DB</u>
<u>[Signature]</u>	<u>OSE</u>	<u>10/9/24</u>	<u>1408</u>	
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date	Reviewed/Date	Data Package: Standard ☐ Level III ☐ Level IV ☐		
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐				

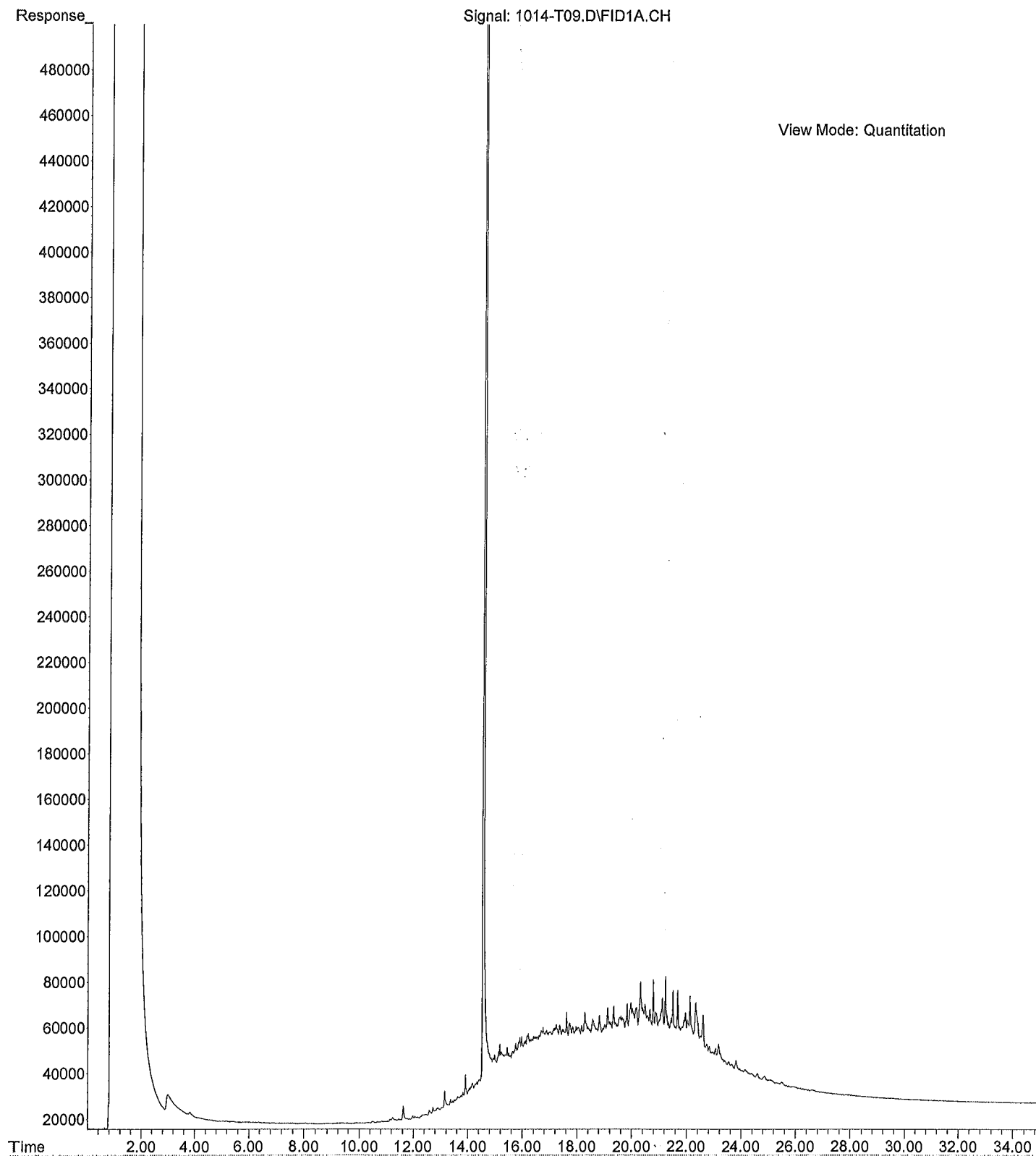
File :X:\DIESELS\Teri\Data\T241014.SEC\1014-T56.D
Operator : LW
Acquired : 14 Oct 2024 11:36 using AcqMethod T231127F.M
Instrument : Teri
Sample Name: 10-140-01 ~~DHP~~
Misc Info : RearSamp
Vial Number: 56



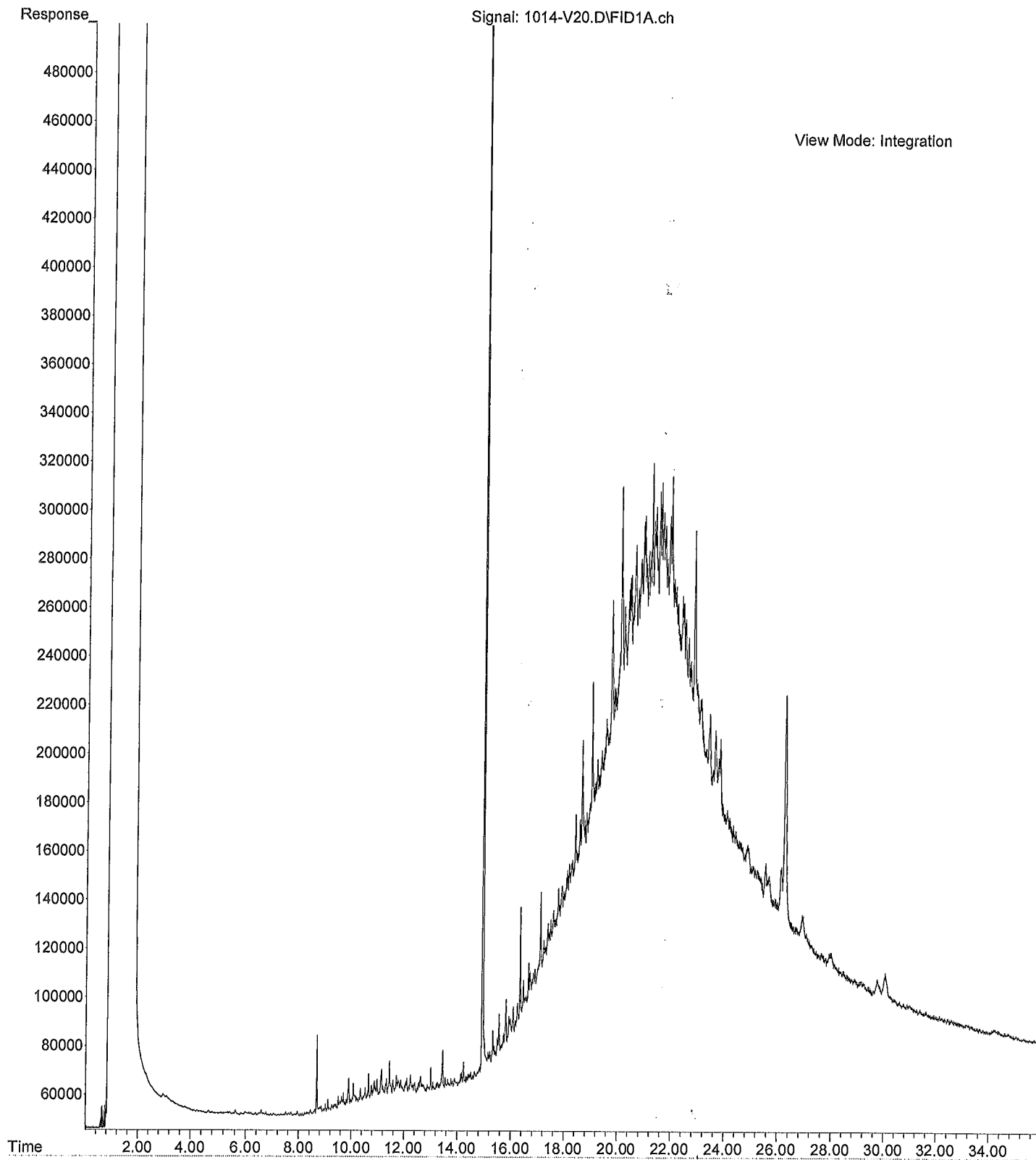
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Operator : LW
Acquired : 14 Oct 2024 12:04 using AcqMethod V241001F.M
Instrument : Vigo
Sample Name: 10-140-02
Misc Info : Sample
Vial Number: 6



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Operator : LW
Acquired : 14 Oct 2024 13:43 using AcqMethod T231127F.M
Instrument : Teri
Sample Name: 10-140-03
Misc Info : Sample
Vial Number: 9



File :X:\DIESELS\Vigo\Data\V241014\1014-V20.D
Operator : LW
Acquired : 14 Oct 2024 21:35 using AcqMethod V241001F.M
Instrument : Vigo
Sample Name: 10-140-06 5X
Misc Info : Sample
Vial Number: 20



APPENDIX D

Geotechnical Lab Reports

APPENDIX D

Laboratory Testing Program

A laboratory testing program was performed for this study to evaluate the basic index and geotechnical engineering properties of the site soils. Disturbed soil samples were tested. The tests performed and the procedures followed are outlined below.

SOIL CLASSIFICATION

Soil samples from the explorations were visually classified in the field and then taken to our laboratory where the classifications were verified in a relatively controlled laboratory environment. Field and laboratory observations include density/consistency, moisture condition, and grain size and plasticity estimates.

The classifications of selected samples were checked by laboratory tests such as Atterberg limits determinations and grain size analysis. Classifications were made in general accordance with the Visual-Manual Procedure, ASTM International (ASTM) D 2488. Lab test results are summarized on Figure D-1.

WATER CONTENT DETERMINATIONS

Water contents were determined, for most samples recovered in the explorations, in general accordance with ASTM D 2216, as soon as possible following their arrival in our laboratory. Water contents were not determined for very small samples nor samples where large gravel contents would result in values considered unrepresentative. The results of water content tests are plotted at their respective sample depths on the exploration logs.

ATTERBERG LIMITS

We determined Atterberg Limits (AL) for fine-grained soil samples in boring logs HA24-B2. The liquid limit and plastic limit were determined in general accordance with ASTM D 4318. The results of the ALs analysis and plasticity characteristics are shown graphically on the boring logs and plotted on Figure D-2. This relates the plasticity index (liquid limit minus the plastic limit) to the liquid limit.

GRAIN SIZE ANALYSIS

Grain size (GS) distribution was analyzed on representative samples in general accordance with ASTM D 422. Wet sieve analysis was used to determine the size distribution greater than U.S. No. 200 mesh sieve. The results of the tests are presented as curves plotting percent finer by weight versus grain size on Figure D-3 and D-5.

MOISTURE-DENSITY RELATIONSHIP (MD)

Moisture-density tests were performed in general accordance with ASTM D 1557 (Modified Proctor Test). The test results plotted in terms of dry density versus water content determined a maximum dry density and optimum moisture content and are presented on Figure D-4.

HALE ALDRICH FOR REPORT: \\HALEVALDRICH\COM\SHARE\POX_DOYAGECMA\TCS\GINT\G LIBRARY\GUB - 12024-1103 - \\HALEVALDRICH\COM\SHARE\CT\PROJECTS\0209066\FILED\020906-000_EVERETT_SMELTER_GINT.GPJ - michaewsz

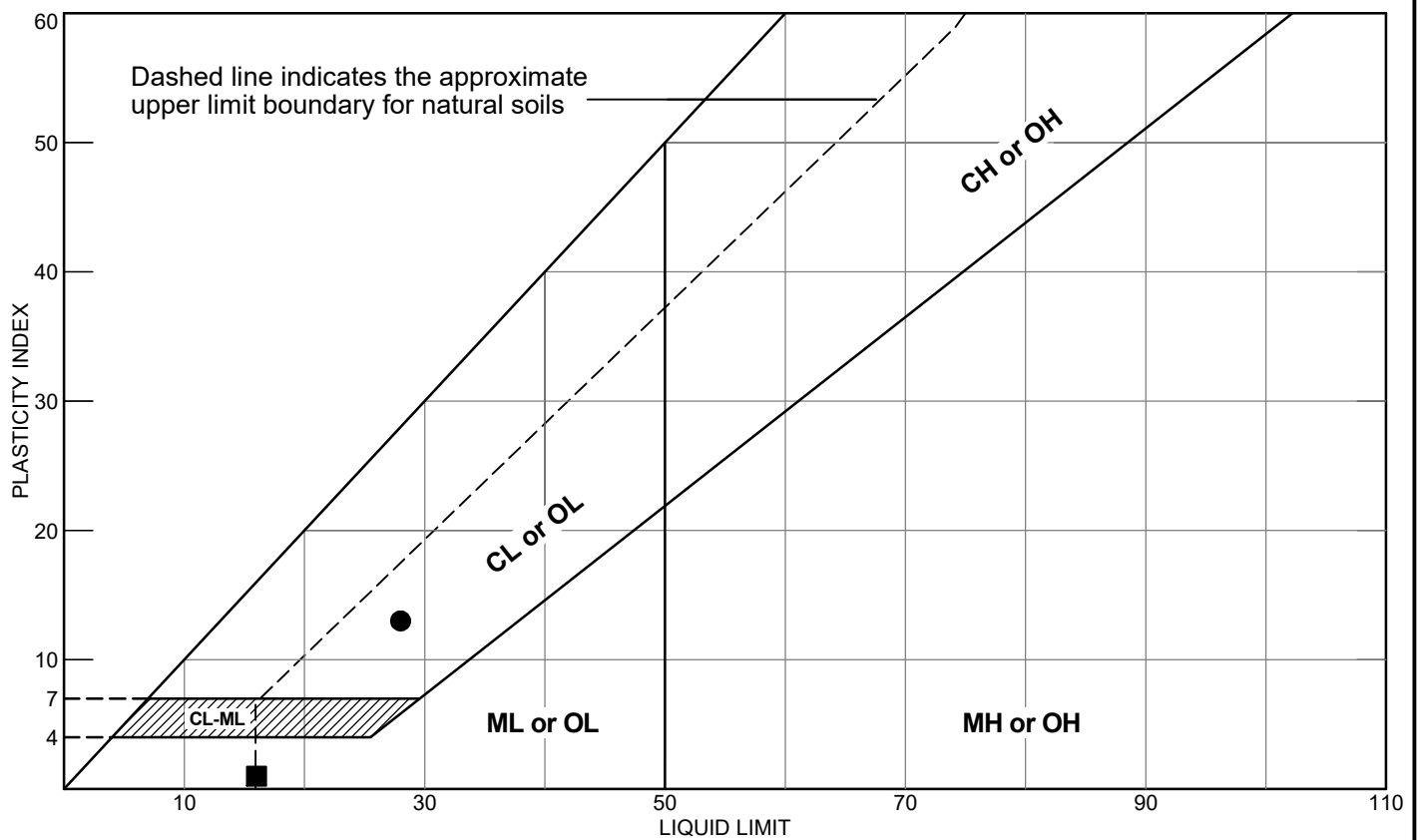
Exploration	Sample ID	Depth	Water Content (%)	Dry Density (pcf)	Fines (%)	Sand (%)	Gravel (%)	Liquid Limit	Plastic Limit	Plasticity Index	Organic Content (%)	Pocket Pen (tsf)	Torvane (tsf)	
HA24-B1	S-2	2.5	16											
HA24-B1	S-3	5.0	9		38	45	17							
HA24-B1	S-5	10.0	10											
HA24-B1	S-7	20.0	10		21	49	30							
HA24-B1	S-9	27.5	16											
HA24-B2	S-1	0.0	9											
HA24-B2	S-3	10.0	13		52	33	15	28	15	13				
HA24-B2	S-6	17.5	9											
HA24-B2	S-7	20.0	12		26	69	4							
HA24-B2	S-8	25.0	18					16	15	1				
HA24-B3	S-2	2.5	9											
HA24-B3	S-4	7.5	10		28	63	10							
HA24-B3	S-6	15.0	19											
HA24-B3	S-7	20.0	16		22	55	23							
HA24-B3	S-9	30.0	20		67	31	2							
HA24-B4	S-2	2.5	9		35	54	11							
HA24-B4	S-4	7.5	12											
HA24-B4	S-6	15.0	8		25	47	28							
HA24-B4	S-9	30.0	14											
HA24-B5	S-2	5.0	8		28	64	8							
HA24-B5	S-3	10.0	8											
HA24-B5	S-5	15.0	11											
HA24-B6	S-2	2.5	10											
HA24-B6	S-4	7.5	9		27	52	21							
HA24-B6	S-6	15.0	9											
HA24-TP1	G-1	0.0	9											
HA24-TP1	G-3	10.0	12		29	37	34							
HA24-TP1	G-4	12.5	14											
HA24-TP2	G-1	0.0	10											
HA24-TP2	G-3	5.0	10		37	47	16							
HA24-TP2	G-6	14.5	12											
HA24-TP3	G-1	0.0	12											
HA24-TP3	G-4	12.5	10		31	50	18							
HA24-TP4	G-2	2.5	8		26	52	22							
HA24-TP4	G-4	7.5	11											
HA24-TP4	G-6	15.0	13											
HA24-TP5	G-1	0.0	7											
HA24-TP5	G-3	10.0	10		29	45	26							
HA24-TP5	G-5	15.0	12											
HA24-TP6	G-1	2.5	9											
HA24-TP6	G-3	7.5	16		29	53	19							



Project: Everett Smelter Plume Area B1
 Location: Everett, Washington
 Project No.: 0209066-000

Summary of Laboratory Results

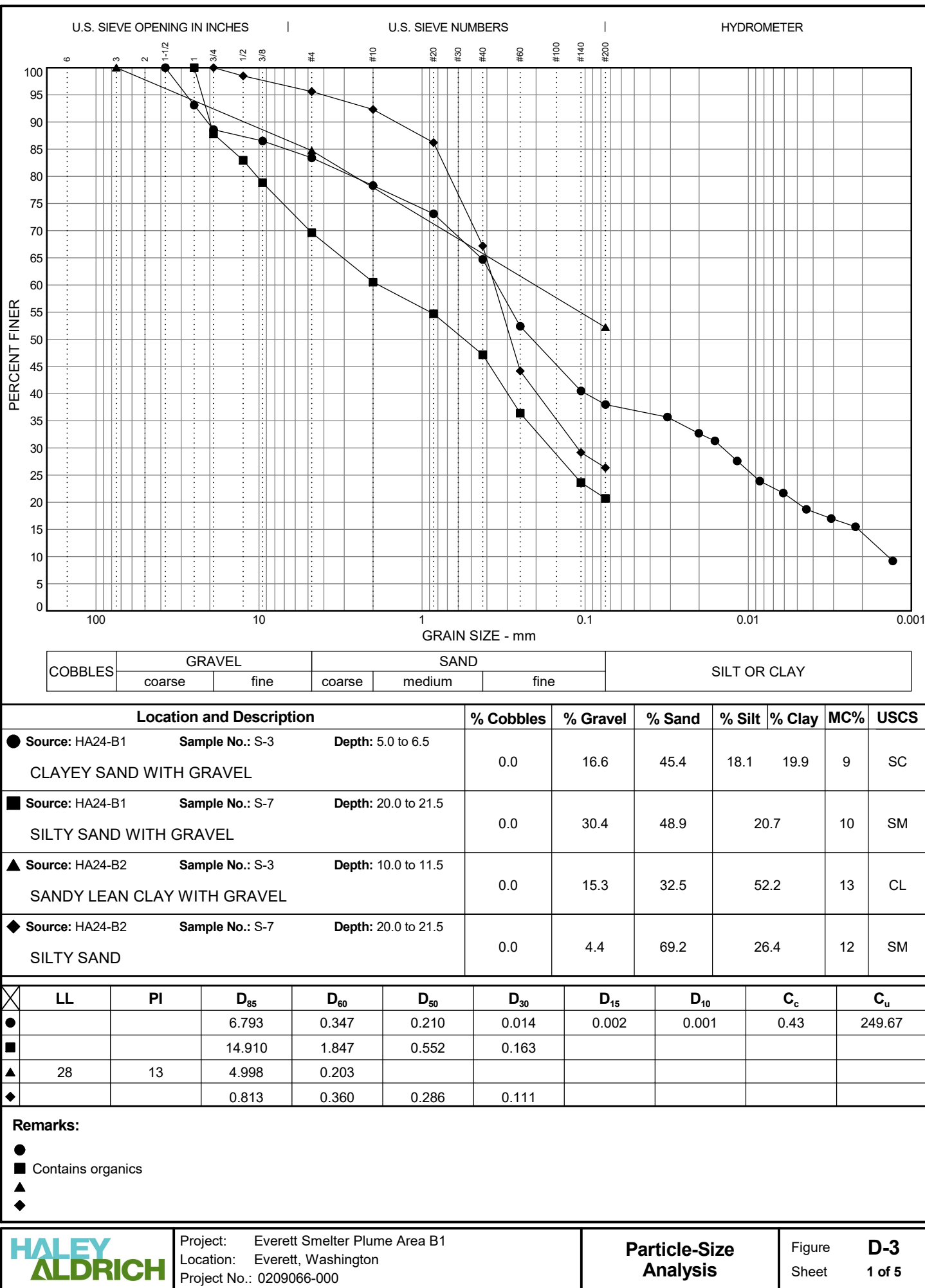
Figure **D-1**
 Sheet **1 of 1**

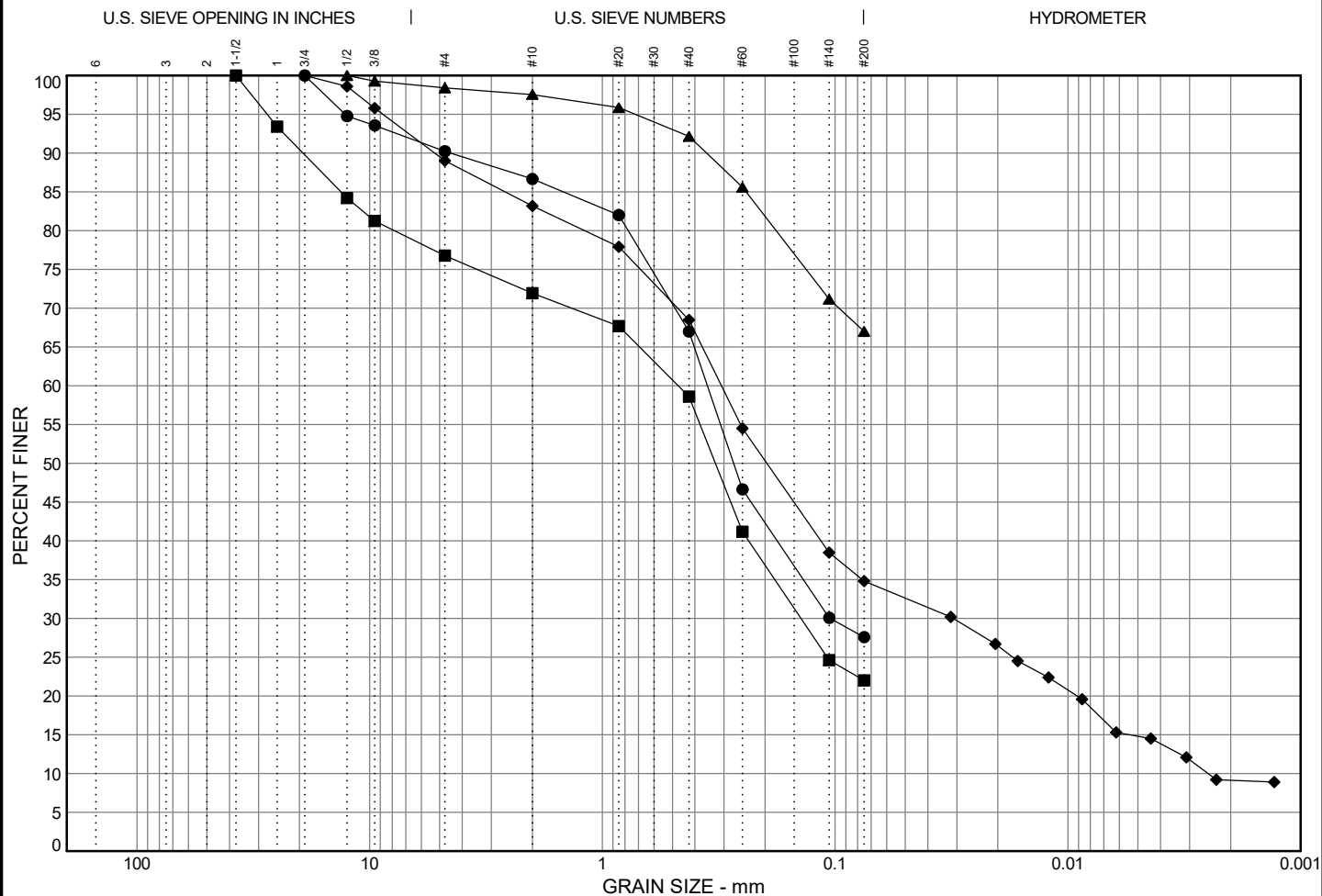


Location and Description			LL	PL	PI	#200	MC%	USCS
● Source: HA24-B2	Sample No.: S-3	Depth: 10.0 to 11.5						
SANDY LEAN CLAY WITH GRAVEL			28	15	13	52	13	CL
■ Source: HA24-B2	Sample No.: S-8	Depth: 25.0 to 26.5						
SILT			16	15	1	NT	18	ML

Remarks:







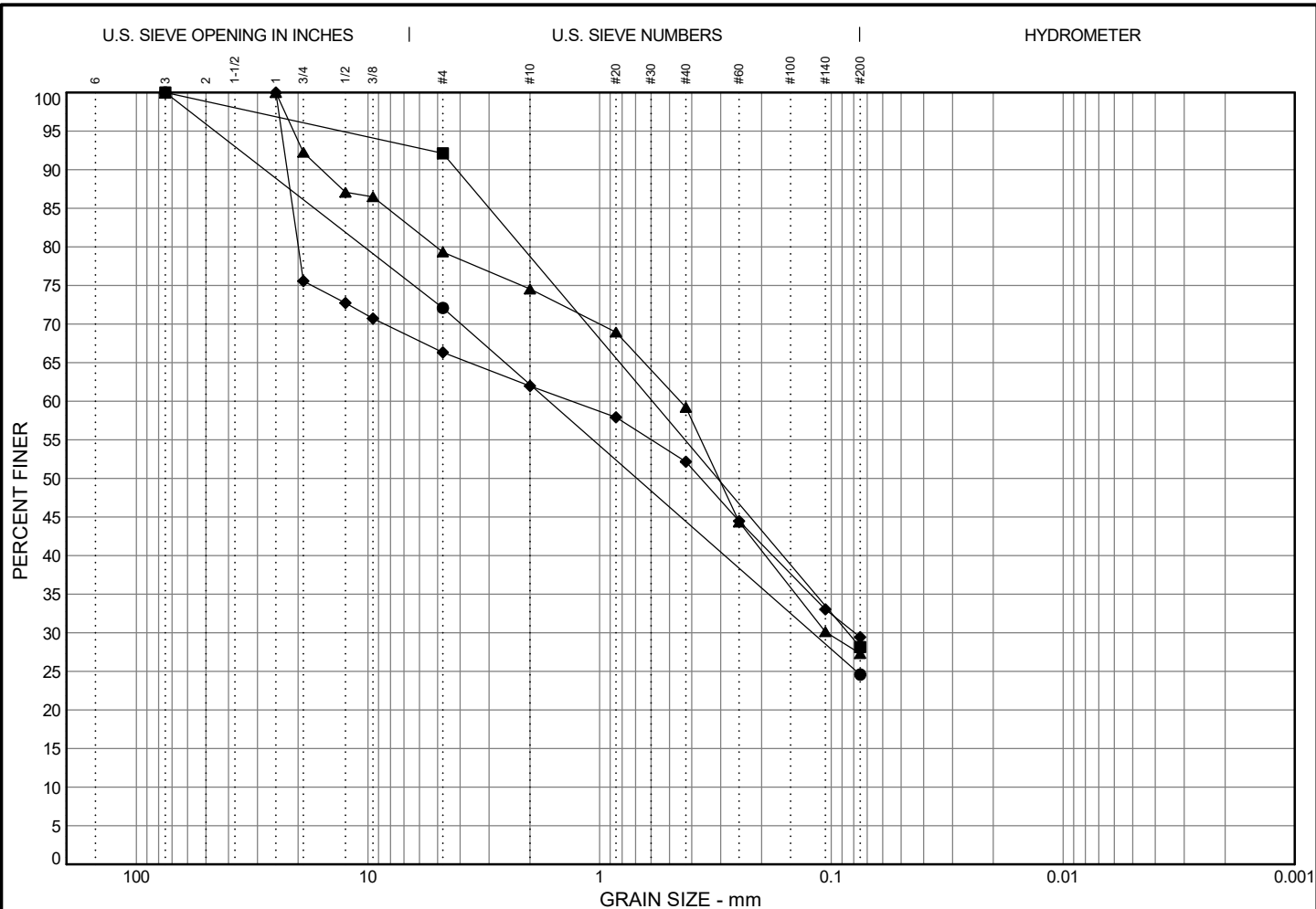
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Location and Description			% Cobbles	% Gravel	% Sand	% Silt	% Clay	MC%	USCS
● Source: HA24-B3	Sample No.: S-4	Depth: 7.5 to 9.0	0.0	9.8	62.6	27.6		10	SM
SILTY SAND									
■ Source: HA24-B3	Sample No.: S-7	Depth: 20.0 to 21.5	0.0	23.2	54.8	22.0		16	SM
SILTY SAND WITH GRAVEL									
▲ Source: HA24-B3	Sample No.: S-9	Depth: 30.0 to 31.5	0.0	1.6	31.4	67.0		20	ML
SANDY SILT									
◆ Source: HA24-B4	Sample No.: S-2	Depth: 2.5 to 4.0	0.0	11.0	54.2	20.0	14.8	9	SM
SILTY SAND									

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
●		1.475	0.354	0.273	0.105				
■		13.271	0.473	0.327	0.140				
▲		0.241							
◆		2.616	0.308	0.196	0.031	0.005	0.002	1.26	123.31

Remarks:





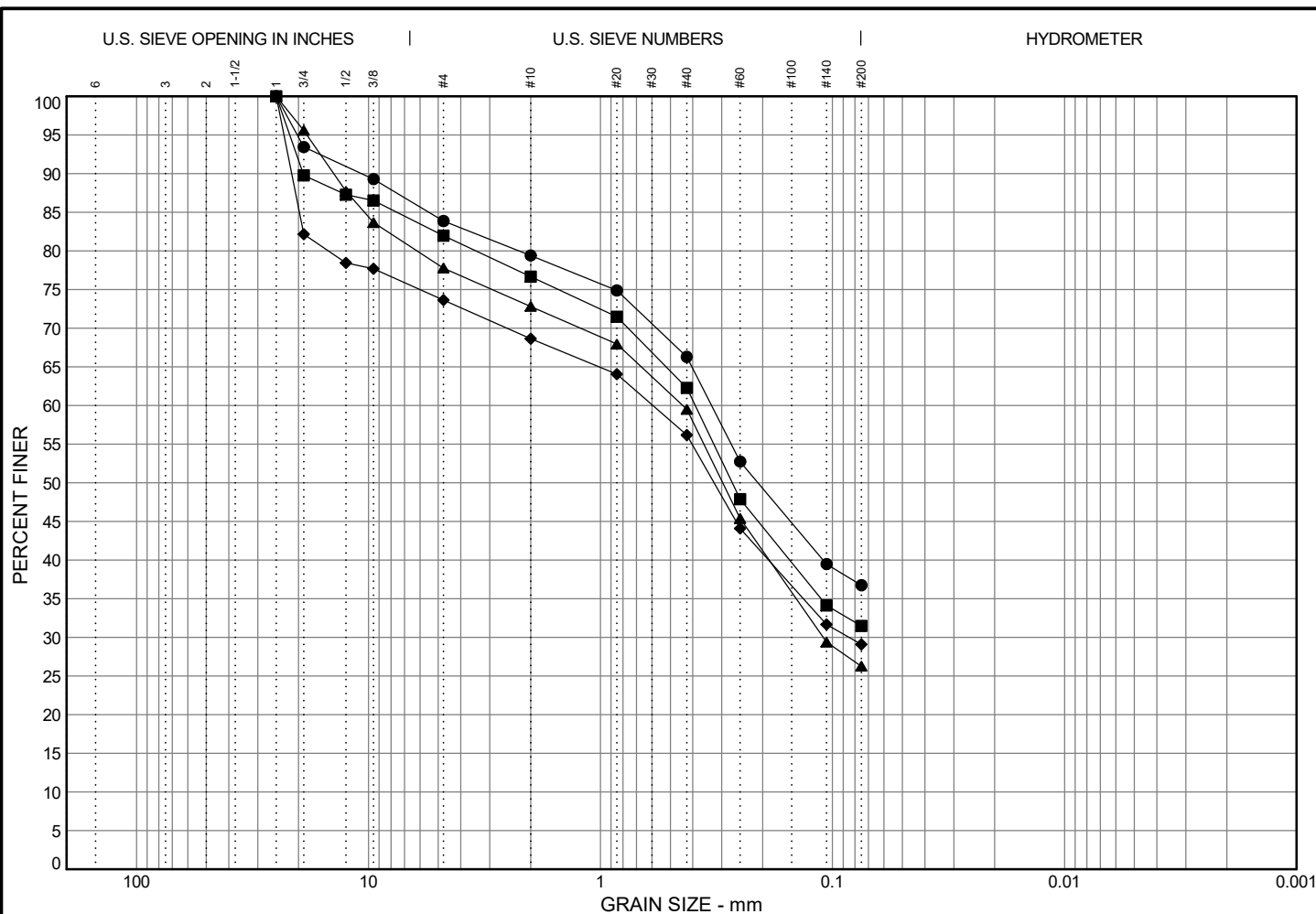
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Location and Description			% Cobbles	% Gravel	% Sand	% Silt	% Clay	MC%	USCS
● Source: HA24-B4	Sample No.: S-6	Depth: 15.0 to 16.5							
SILTY SAND WITH GRAVEL			0.0	27.9	47.5	24.6		8	SM
■ Source: HA24-B5	Sample No.: S-2	Depth: 5.0 to 6.5							
SILTY SAND			0.0	7.9	64.0	28.2		8	SM
▲ Source: HA24-B6	Sample No.: S-4	Depth: 7.5 to 9.0							
SILTY SAND WITH GRAVEL			0.0	20.7	52.0	27.3		9	SM
◆ Source: HA24-TP1	Sample No.: G-3	Depth: 10.0 to 10.5							
SILTY SAND WITH GRAVEL			0.0	33.7	36.9	29.4		12	SM

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
●		17.029	1.654	0.690	0.120				
■		2.990	0.591	0.309	0.085				
▲		8.221	0.450	0.306	0.104				
◆		21.122	1.315	0.366	0.079				

Remarks:

-
-
- ▲
- ◆ Contains organic material.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

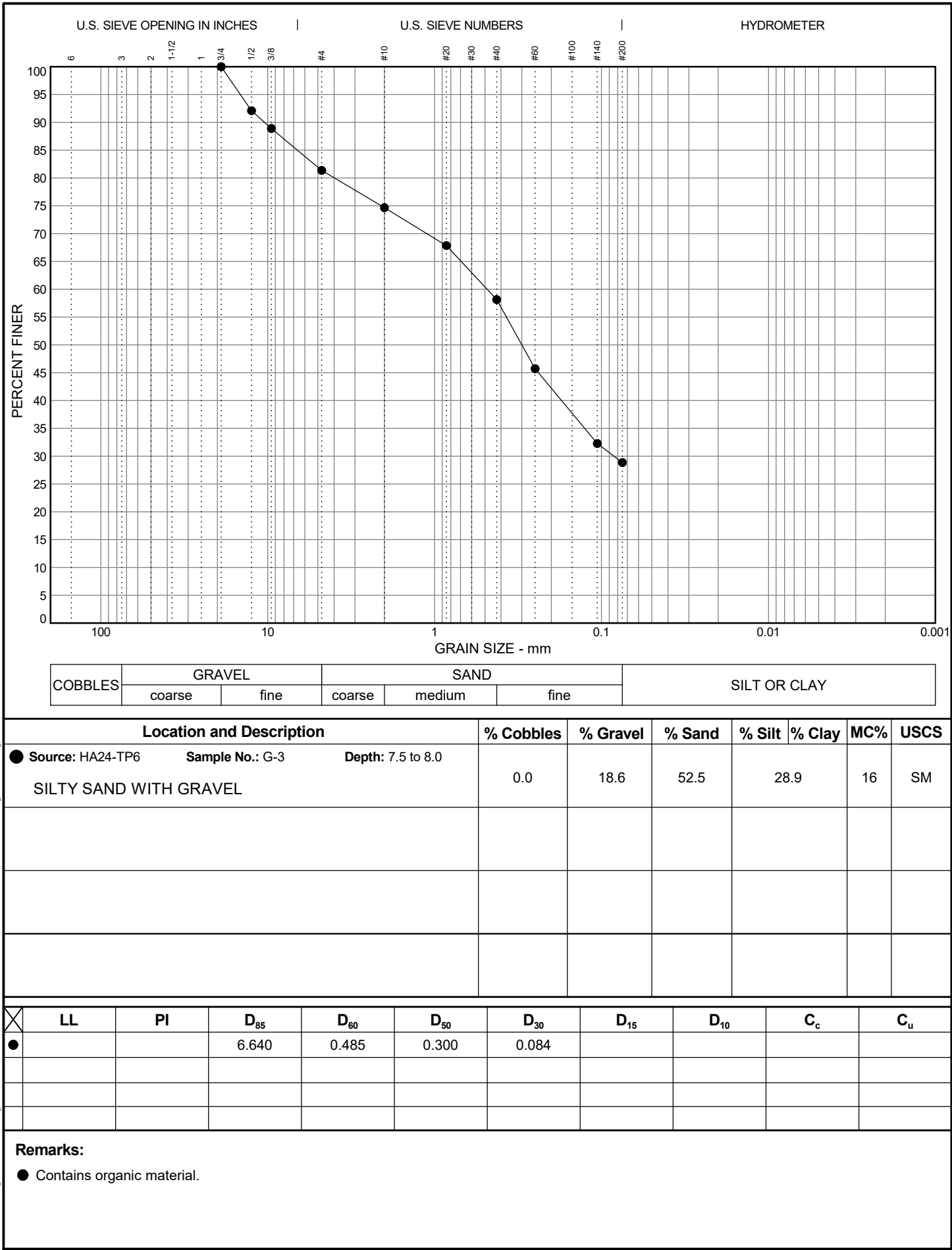
Location and Description			% Cobbles	% Gravel	% Sand	% Silt	% Clay	MC%	USCS
● Source: HA24-TP2	Sample No.: G-3	Depth: 5.0 to 5.5	0.0	16.1	47.1	36.7	10	SM	
SILTY SAND WITH GRAVEL									
■ Source: HA24-TP3	Sample No.: G-4	Depth: 12.5 to 13.0	0.0	18.0	50.5	31.5	10	SM	
SILTY SAND WITH GRAVEL									
▲ Source: HA24-TP4	Sample No.: G-2	Depth: 2.5 to 3.0	0.0	22.2	51.5	26.3	8	SM	
SILTY SAND WITH GRAVEL									
◆ Source: HA24-TP5	Sample No.: G-3	Depth: 10.0 to 10.5	0.0	26.4	44.6	29.1	10	SM	
SILTY SAND WITH GRAVEL									

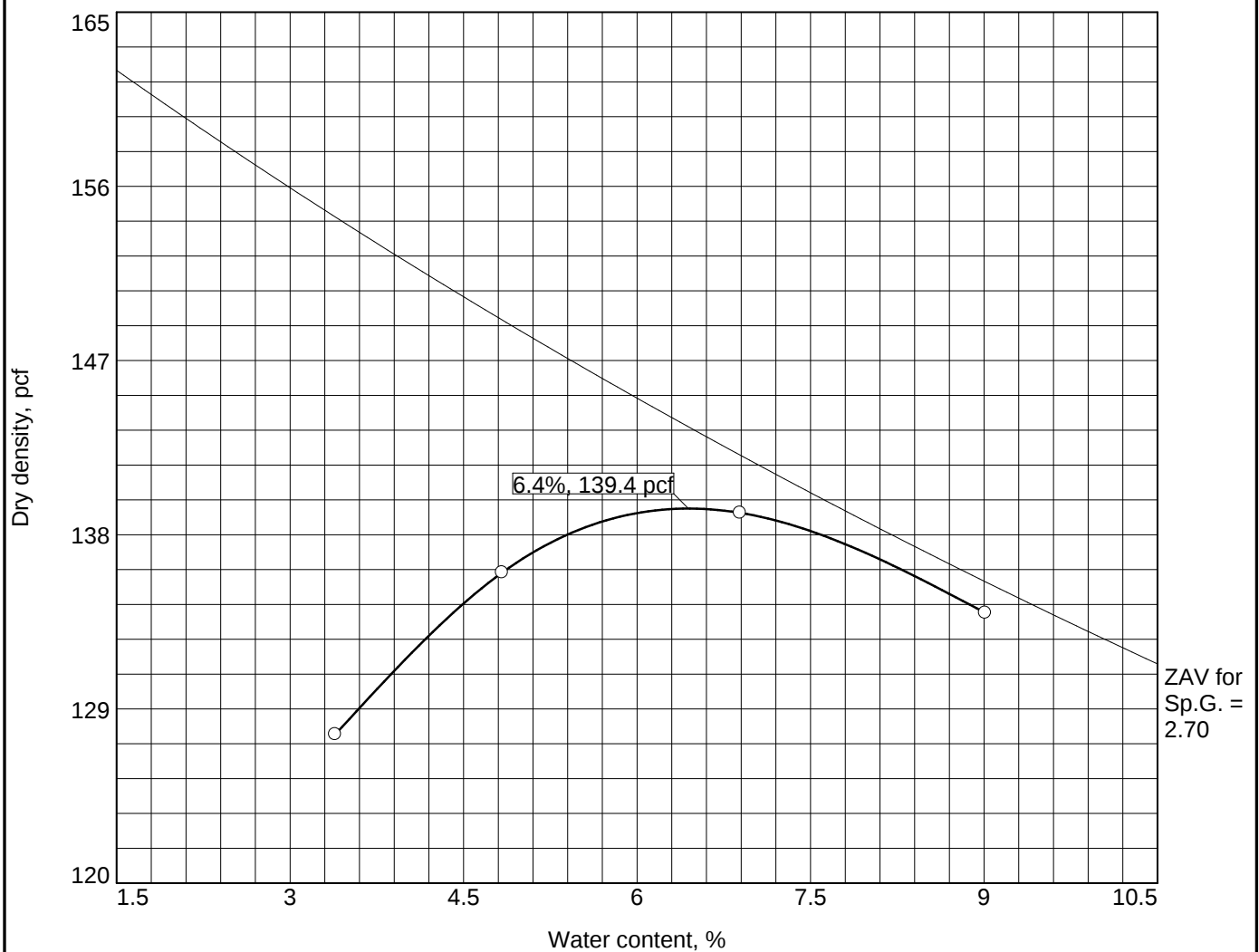
LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
●		5.492	0.332	0.209					
■		7.538	0.391	0.270					
▲		10.396	0.443	0.297	0.110				
◆		19.846	0.596	0.324	0.085				

Remarks:

- Omitted one non-representative gravel.
-
- ▲
- ◆ Contains organic material.

HA GRAB SIZE - HALEYALDRICH.COM\SHAREPOINT\DATA\GMA\GINT\GINT LIBRARY 2.0 - 12624.11.08 - HALEYALDRICH.COM\SHAREPOINT\PROJECTS\0209066\FIELD\PEM\GINT\FILED\020906-000 - EVERETT SMELTER GINT.GPJ - 12/24/2016





Test specification: ASTM D 1557-07 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

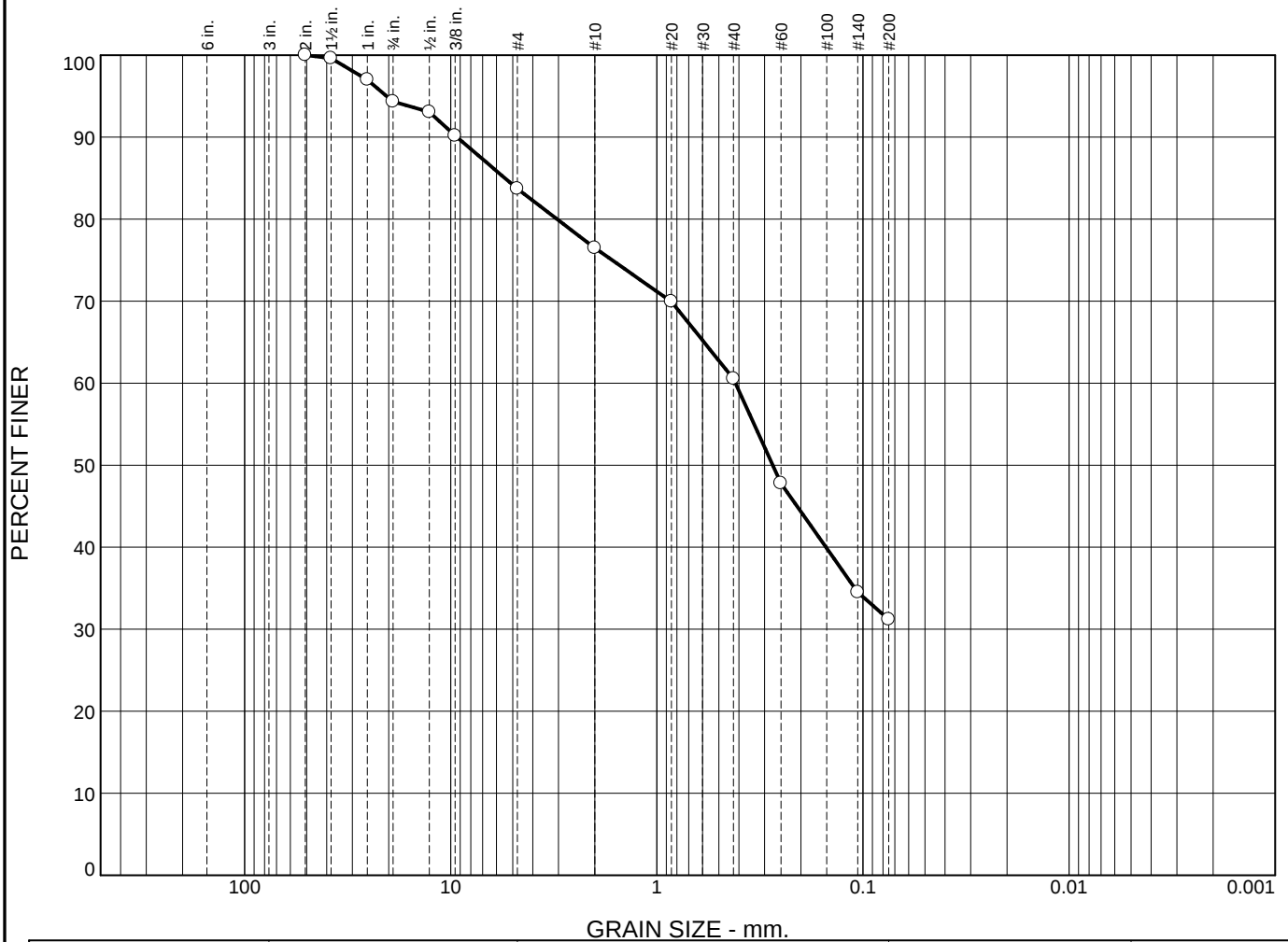
Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
0-5'	SC	A-2-4(0)	8.9	2.70	20	8	5.7	31.2

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 139.4 pcf		137.8 pcf	CLAYEY SAND WITH GRAVEL
Optimum moisture = 6.4 %		6.7 %	
Project No. 0209066000 Client: Project: Everett Smelter Date: 11/24/24 ☐ Source: Combined bulk sample Sample No.: TP-2,-4,-6 combined			Remarks:
HALEY ALDRICH			

Figure D-4

Figure D-4

Particle Size Distribution Report



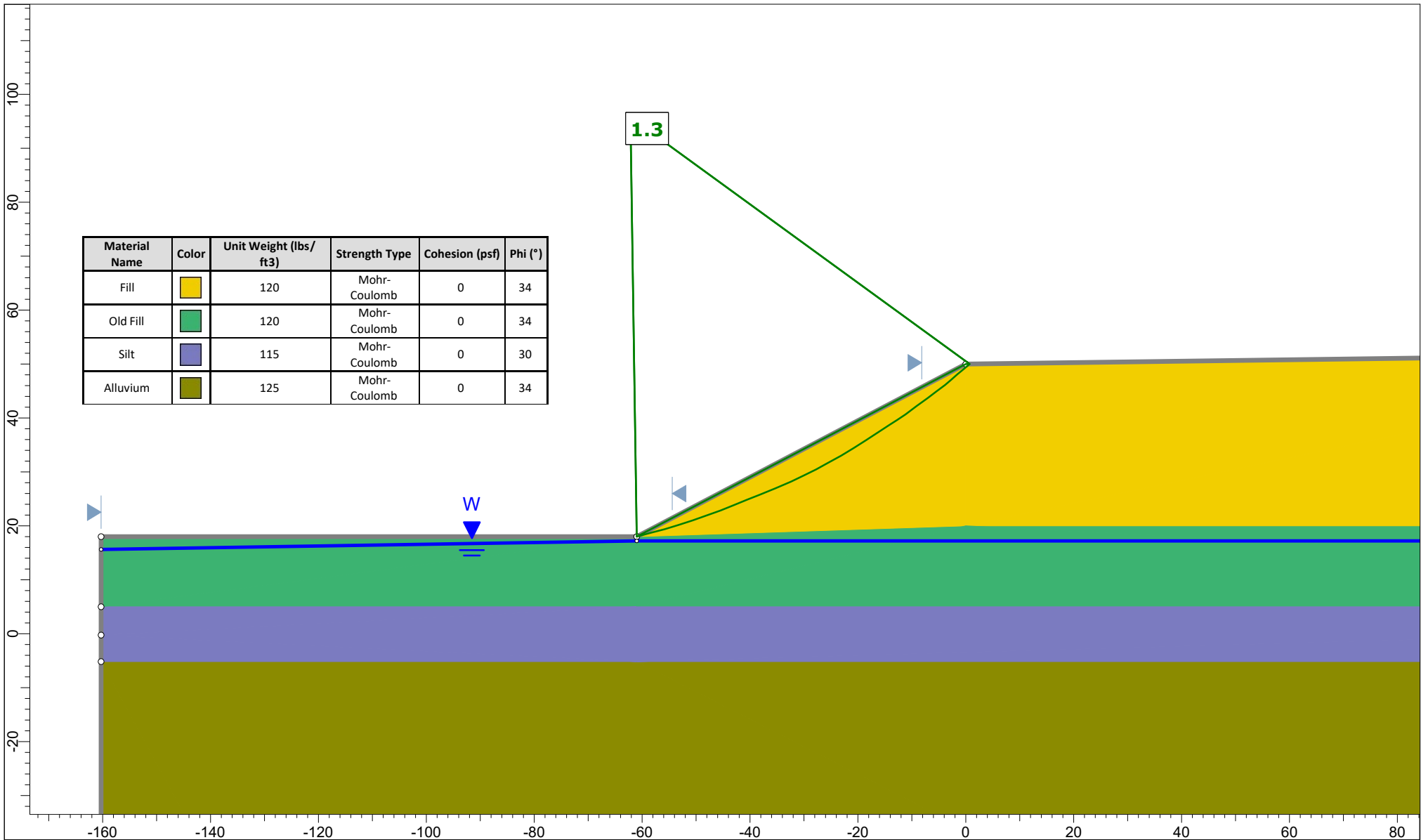
GRAIN SIZE - mm.										
% +3"		% Gravel		% Sand			% Silt		% Clay	
0.0		16.3		52.5			31.2			
LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u	
20	12	5.4574	0.4155	0.2742						

MATERIAL DESCRIPTION							TEST DATE	USCS	NM
CLAYEY SAND WITH GRAVEL							11/25/24	SC	8.9

Project No. 0209066000 Client: Project: Everett Smelter Source: Combined bulk sample Depth: 0-5' Sample No.: TP-2,-4,-6 combined	Remarks:
	

Figure D-5

APPENDIX E
Slope Stability Analysis Figures (Section B-B')



Note:

From right of "0" on X-axis, the soil layers are based on cross section (Figure 3) and SRI Report.
From left of "0" on X-axis, the soil layers are based on Figure 4-1 in SRI Report(2009 LIDAR)

Everett Smeleter Area B1
Everett, WA

Existing Grade - Static

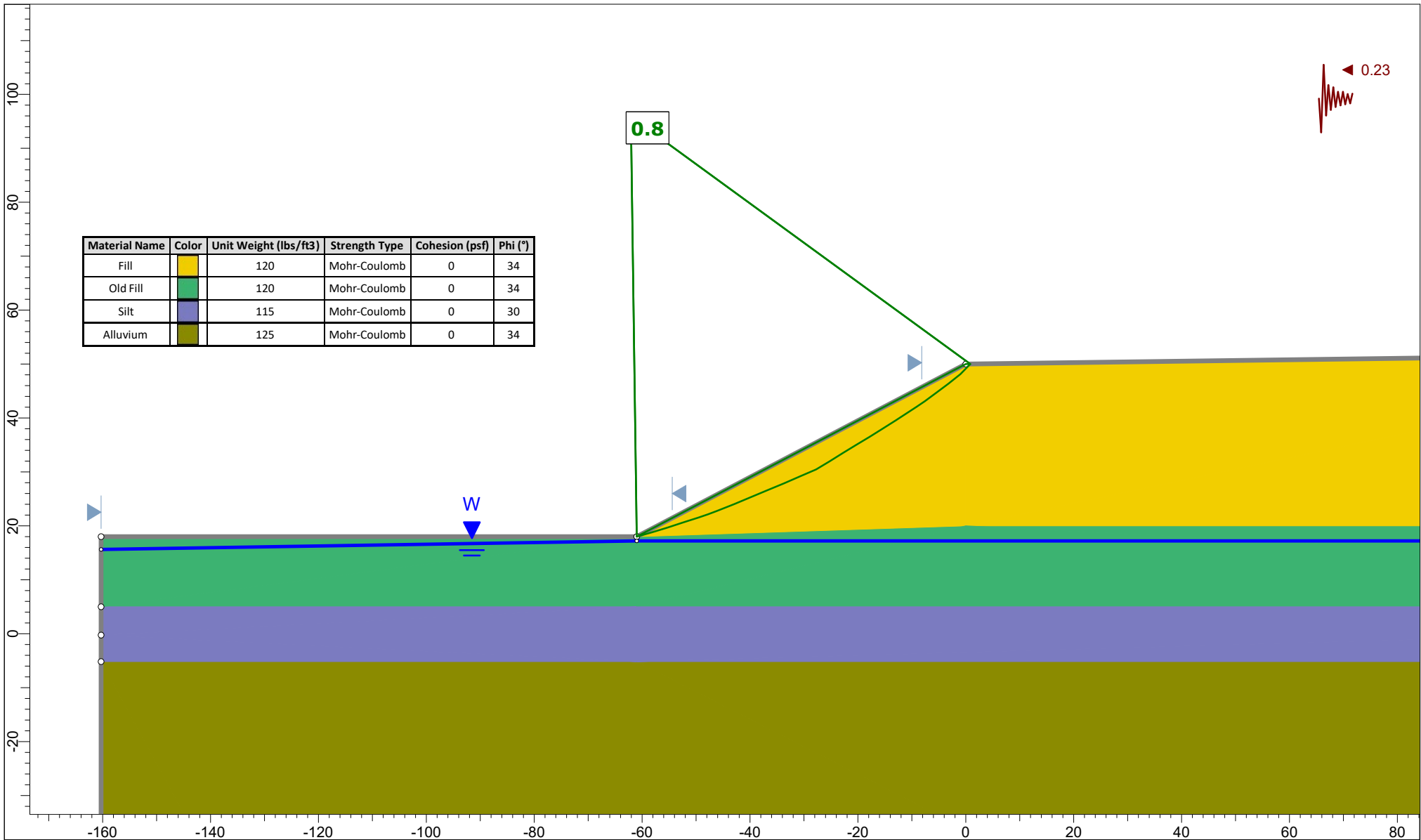
0209066-001

Scale 1:300

02/2025

**HALEY
ALDRICH**

Figure
E-1



Note:
 From right of "0" on X-axis, the soil layers are based on cross section (Figure 3) and SRI Report.
 From left of "0" on X-axis, the soil layers are based on Figure 4-1 in SRI Report(2009 LIDAR)

Everett Smeleter Area B1
 Everett, WA

Existing Grade - Seismic

0209066-001

Scale 1:300

02/2025

**HALEY
ALDRICH**

Figure
E-2

APPENDIX F

HWA Permeability Results



January 30, 2025
HWA Project No. 2011-085-23 Task 800

Haley & Aldrich, Inc.
3131 Elliot Avenue, Suite 600
Seattle, Washington 98121

Attention: Mr. Michael Liu, P.E.

Subject: **Materials Laboratory Report
Index and Hydraulic Conductivity Testing
Everett Smelter Area B1 – Revision No. 1
Client Project No. 0209066-000**

Dear Mr. Liu:

In accordance with your request, HWA GeoSciences Inc. (HWA) performed laboratory testing for the above referenced project. Herein we present Revision No. 1 which supersedes our original data report that was transmitted on January 23, 2025. Herein we present the results of our laboratory analyses, which are summarized in the attached Figures and Table. The laboratory testing program was performed in general accordance with your instructions and appropriate ASTM Standards as outlined below.

SAMPLE DESCRIPTION: The subject samples were delivered to our laboratory on December 3, 2024 by Haley & Aldrich personnel. The samples were delivered in plastic resealable bags designated with exploration identification. The soils were classified for engineering purposes in accordance with test method ASTM D2487. Descriptions of the soils observed may be found on the attached Summary of Material Properties, Figure 1.

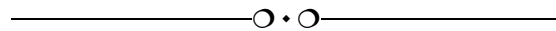
PARTICLE SIZE ANALYSIS OF SOILS (SIEVE AND HYDROMETER): Selected samples were tested to determine the particle distribution in general accordance with ASTM D6913 and D7928. The results are summarized on the attached Particle-Size Analysis of Soils report, Figure 2, which also provides information regarding the classification of the sample and the “as-received” moisture content at the time of testing.

HYDRAULIC CONDUCTIVITY OF SOIL (FLEXI-WALL TRIAXIAL CHAMBER METHOD): The hydraulic conductivity (also commonly referred to as coefficient of permeability) of the sample was measured in general accordance with method ASTM D5084. Upon request of the client, specimens were remolded at approximately optimum moisture content, to a target density

between 85-90% of maximum dry density. Proctor data for remolding was provided by the client. The samples were encapsulated in a latex membrane and subjected to a confining stress provided by the client. Testing was conducted until the inflow was approximately equal to outflow and the hydraulic conductivity was essentially steady. A summary of the results is presented below in Table 1. Detailed results may be found on the attached Hydraulic Conductivity Test Report, Figures 3-4.

Table 1 - Hydraulic Conductivity Test Results

Sample	Initial Moisture Content (%)	Initial Dry Density (pcf)	Hydraulic Conductivity (cm/sec)
HA-24-TP2	6.9	122.5	3.5×10^{-5}
HA-24-TP5	6.9	122.0	3.7×10^{-5}



CLOSURE: Experience has shown that test values on soil and other natural materials vary with each representative sample. As such, HWA has no knowledge as to the extent and quantity of material the tested samples may represent. HWA also makes no warranty as to how representative either the samples tested or the test results obtained are to actual field conditions. It is a well-established fact that sampling methods present varying degrees of disturbance that affect sample representativeness.

No copy should be made of this report except in its entirety.

We appreciate the opportunity to provide laboratory testing services on this project. Should you have any questions or comments, or if we may be of further service, please call.

HWA GEOSCIENCES INC.

Alex Hodges
Materials Laboratory Supervisor

Chad McMullen, P.E.
Quality Assurance Manager

Attachments:

Figure 1	Summary of Material Properties
Figure 2	Particle-Size Analysis of Soils
Figures 3 & 4	Hydraulic Conductivity Test Reports

EXPLORATION DESIGNATION	TOP DEPTH (feet)	BOTTOM DEPTH (feet)	MOISTURE CONTENT (%)	ORGANIC CONTENT (%)	SPECIFIC GRAVITY	ATTERBERG LIMITS (%)			% GRAVEL	% SAND	% FINES	ASTM SOIL CLASSIFICATION	SAMPLE DESCRIPTION
						LL	PL	PI					
HA-24-TP2,	0.0	5.0	9.4						23.7	46.3	30.0	SM	Dark gray, silty SAND with gravel
HA-24-TP5,	0.0	5.0	8.7						18.1	49.5	32.4	SM	Dark gray, silty SAND with gravel

Notes: 1. This table summarizes information presented elsewhere in the report and should be used in conjunction with the report test, other graphs and tables, and the exploration logs.
2. The soil classifications in this table are based on ASTM D2487 and D2488 as applicable.

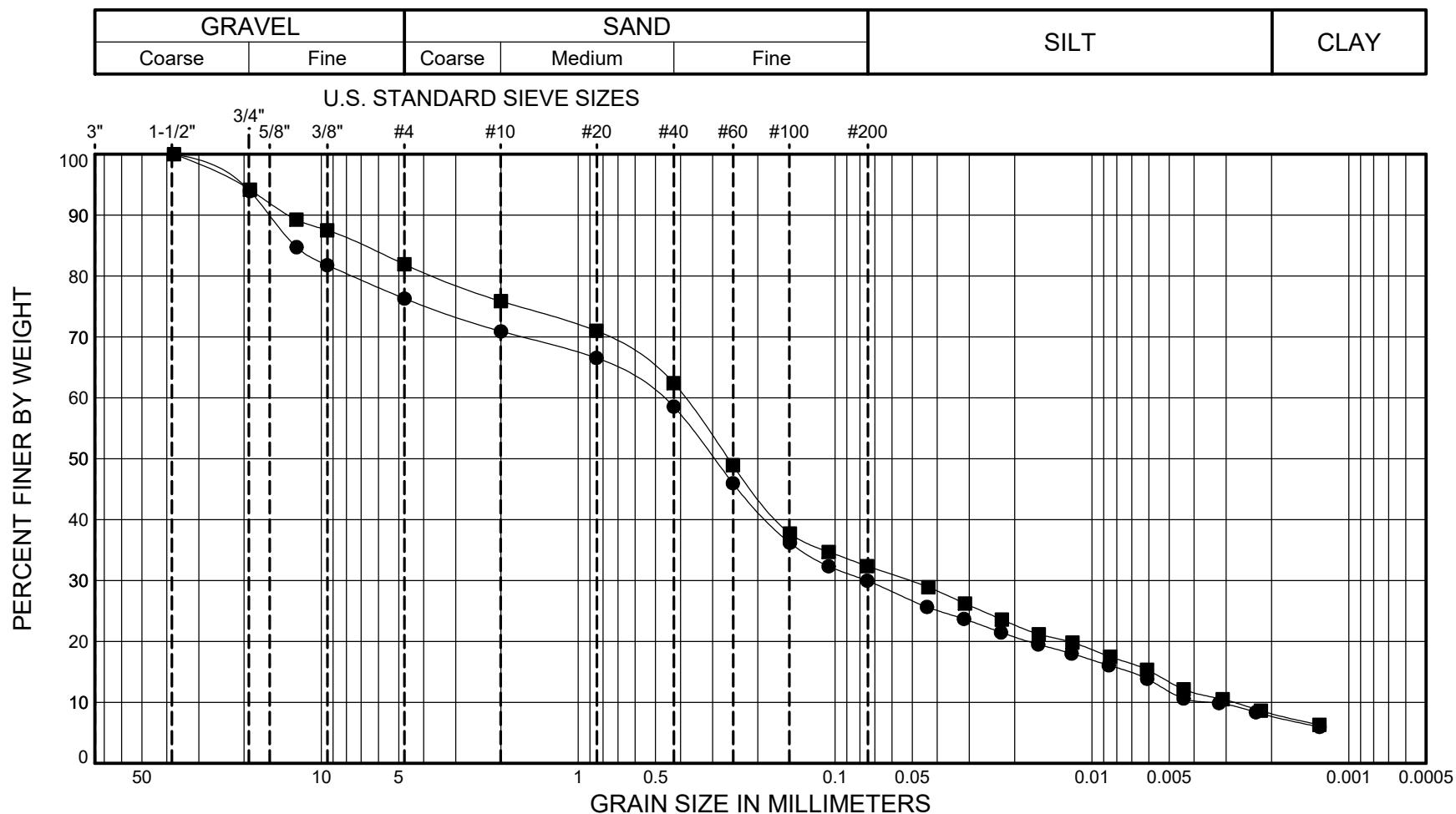


Laboratory Testing for Haley & Aldritch
Everett Smelter Area B1
Everett, WA

SUMMARY OF MATERIAL PROPERTIES

PAGE: 1 of 1

PROJECT NO.: 2011-085 T800 FIGURE: 1



Laboratory Testing for Haley & Aldritch
Everett Smelter Area B1
Everett, WA

**PARTICLE-SIZE ANALYSIS
OF SOILS
METHODS ASTM D6913/D7928**

PROJECT NO.: 2011-085 T800 FIGURE: 2

Hydraulic Conductivity Test Report

Method ASTM D 5084



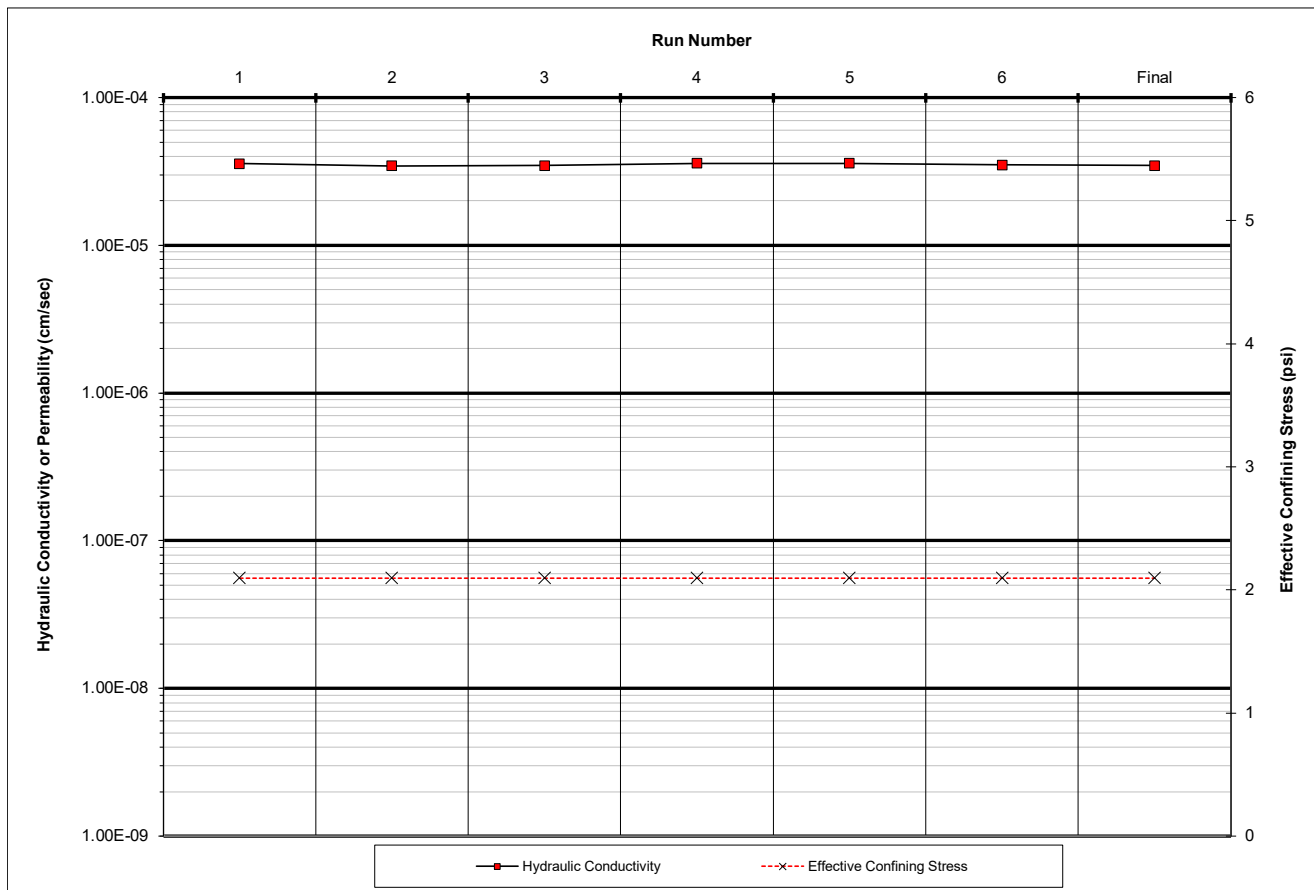
HWAGEOSCIENCES INC.

Project Everett Smelter
Project Number 2011-085 T800
Client Haley & Adrich
Date 1/8/2025
Technician AH
Sample Point 0
Sample Number HA-24-TP2
Sample Depth 0
Sample Type Remolded
Sample Description Dark gray, silty SAND with gravel

Assumed Specific Gravity 2.62
Initial Sample Area (cm²) 80.74
Initial Sample Length (cm) 11.71
Initial Sample Volume (cc) 945.3
Initial moisture (%) 6.9
Initial wet unit wt. (pcf) 131.0
Initial dry unit wt. (pcf) 122.5
Initial void ratio 0.335
Initial porosity 0.251
Initial saturation (%) 54.3

Final Sample Area (cm²) 81.15
Final Sample Length (cm) 11.68
Final Sample Volume (cc) 947.9
Final moisture (%) 12.6
Final wet unit weight (pcf) 137.3
Final dry unit weight (pcf) 121.9
Final void ratio 0.341
Final porosity 0.254
Final saturation (%) 97.2

Run No.	Hydraulic Conductivity (cm/s)	Running Average of 4 Readings (cm/s)	Maximum % Deviation from Average (should be less than 25%)	Flow Ratio (0.75 to 1.25 required)	Effective Confining Stress (psi)	Temperature (Celsius)	Other Information
1	3.6E-05	n.a.		1.00	2.1	22.0	Maximum Gradient 14.2
2	3.4E-05	n.a.		1.03	2.1	22.0	Minimum Gradient 10.2
3	3.5E-05	n.a.		0.97	2.1	22.0	Max. Back Pressure (psi) 16.8
4	3.6E-05	3.5E-05	2.3%	1.04	2.1	22.0	Min. Back Pressure (psi) 16.8
5	3.6E-05	3.5E-05	2.3%	1.00	2.1	22.0	
6	3.5E-05	3.5E-05	2.0%	1.02	2.1	22.0	
Final	3.5E-05	3.5E-05	2.0%	1.00	2.1	22.0	



Checked by: CM

FIGURE: 3

Hydraulic Conductivity Test Report

Method ASTM D 5084

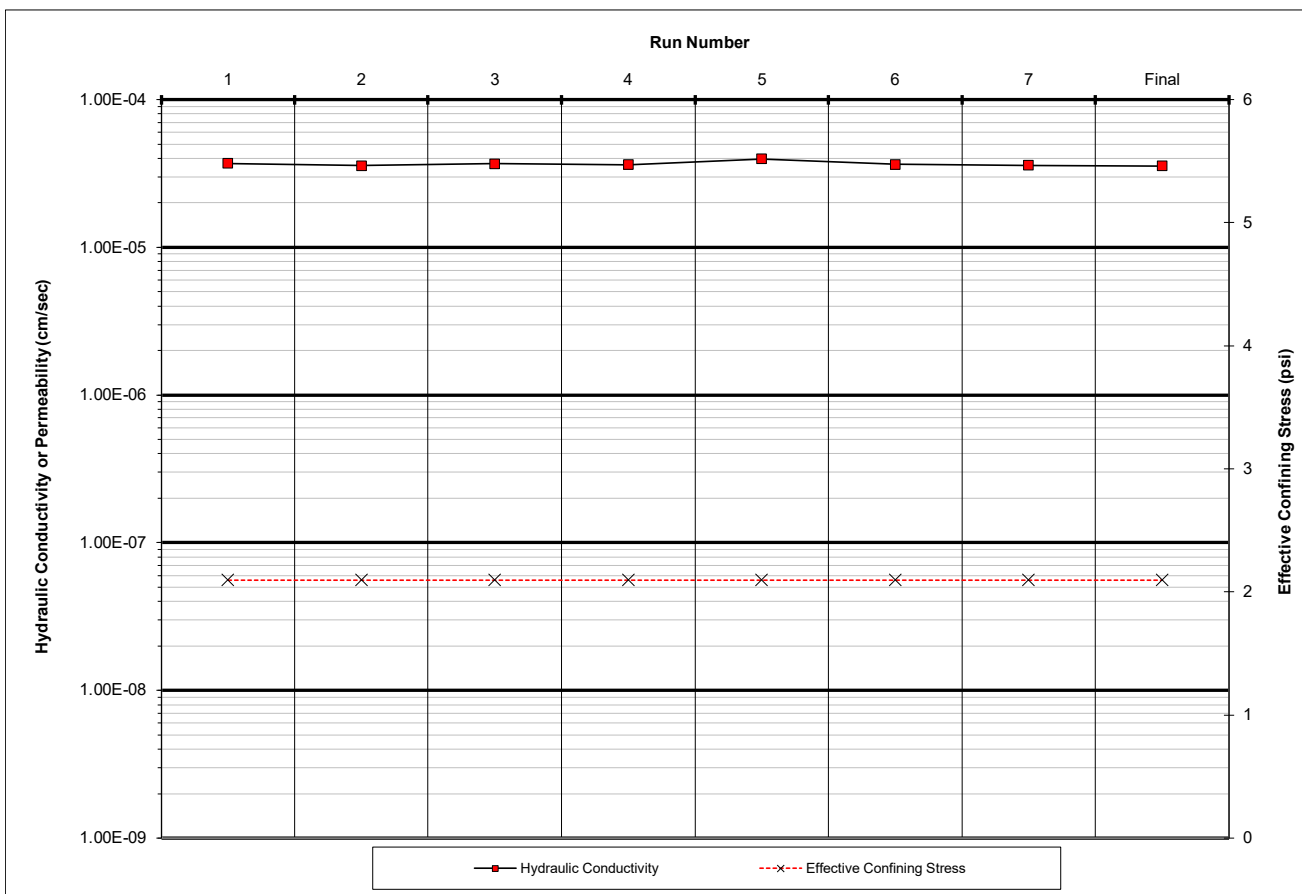


HWA GEOSCIENCES INC.

Project Everett Smelter
Project Number 2011-085 T800
Client Haley & Aldrich
Date 1/8/2025
Technician AH
Sample Point 0
Sample Number HA-24-TP5
Sample Depth 0
Sample Type Remolded
Sample Description Dark gray, silty SAND with gravel

Assumed Specific Gravity 2.62
Initial Sample Area (cm²) 81.01
Initial Sample Length (cm) 11.70
Initial Sample Volume (cc) 947.4
Initial moisture (%) 6.9
Initial wet unit wt. (pcf) 130.4
Initial dry unit wt. (pcf) 122.0
Initial void ratio 0.340
Initial porosity 0.254
Initial saturation (%) 53.0
Final Sample Area (cm²) 81.45
Final Sample Length (cm) 11.78
Final Sample Volume (cc) 959.8
Final moisture (%) 13.2
Final wet unit weight (pcf) 137.5
Final dry unit weight (pcf) 121.5
Final void ratio 0.346
Final porosity 0.257
Final saturation (%) 100.0

Run No.	Hydraulic Conductivity (cm/s)	Running Average of 4 Readings (cm/s)	Maximum % Deviation from Average (should be less than 25%)	Flow Ratio (0.75 to 1.25 required)	Effective Confining Stress (psi)	Temperature (Celsius)	Other Information
1	3.7E-05	n.a.		0.96	2.1	22.0	Maximum Gradient 14.1
2	3.6E-05	n.a.		1.00	2.1	22.0	Minimum Gradient 10.2
3	3.7E-05	n.a.		1.00	2.1	22.0	Max. Back Pressure (psi) 16.8
4	3.6E-05	3.6E-05	2.0%	1.00	2.1	22.0	Min. Back Pressure (psi) 16.8
5	4.0E-05	3.7E-05	7.3%	1.00	2.1	22.0	
6	3.6E-05	3.7E-05	6.8%	1.00	2.1	22.0	
7	3.6E-05	3.7E-05	7.5%	1.00	2.1	22.0	
Final	3.6E-05	3.7E-05	8.1%	1.00	2.1	22.0	



Checked by: CM

FIGURE: 4