FARALLON CONSULTING

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HISTORICAL FEATURE DECOMMISSIONING AND REMOVAL SUMMARY REPORT

BLOCK 79 EAST PROPERTY
701, 739, AND 753 9TH AVENUE NORTH
SEATTLE, WASHINGTON

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EXECUTIVE SUMMARY

Farallon Consulting, L.L.C. (Farallon) has prepared this summary report to document the results from the historical feature decommissioning and removal activities conducted at the property at 701, 739, and 753 9th Avenue North in Seattle, Washington (herein referred to as the Block 79 East Property) (Figure 1). Work was performed in accordance with the *Historical Feature Decommissioning and Removal Work Plan, Block 79 East Property, 701, 739, and 753 9th Avenue North, Seattle, Washington* dated February 1, 2021, prepared by Farallon for Block 79 LLC (Work Plan). The Washington State Department of Ecology (Ecology) reviewed the Work Plan and granted conditional approval for the proposed scope of work on January 29, 2021. Historical feature decommissioning and removal included removal of a previously decommissioned-in-place 900-gallon heating oil underground storage tank (UST; UST-L), a 1,600-gallon waste oil UST (UST-A), and 11 underground hydraulic hoists.

Permanent decommissioning and removal of UST-A and UST-L were performed in accordance with the Work Plan and *Guidance for Remediation of Petroleum Contaminated Sites* dated November 2010, revised June 2016, prepared by Ecology (Ecology Guidance). Although not regulated as USTs under Chapter 173-360 of the Washington Administrative Code, the hydraulic hoists on the Block 79 East Property were treated as a group of USTs for the purposes of removal and sampling.

Permanent decommissioning and removal of UST-A was completed on March 10, 2021. UST-A was observed to be in poor condition at the time of removal and soil staining was observed in overburden and below the tank invert, which prompted removal of additional soil from the bottom of the UST-A excavation to a maximum depth of 15 feet below ground surface. Observations at the time of UST-A removal included stained and product-saturated soil, and soil sampling analytical results from the UST-A excavation confirmed a release of waste oil to soil and likely to groundwater below the UST.

Permanent decommissioning and removal of UST-L, which was confirmed to have previously held heating oil through sampling performed as part of decommissioning, was completed on March 9, 2021. UST-L was confirmed to have been previously decommissioned in place and partially filled with controlled density fill. UST-L was observed to be in good condition at the time of removal, and excavation soil sampling analytical results confirmed that impacts to soil immediately adjacent to UST-L were less than Washington State Model Toxics Control Act Cleanup Regulation (MTCA) cleanup levels and indicated that a release of heating oil had not occurred.

Multiple hydraulic hoists were removed from the Block 79 East Property. Testing of residual hydraulic fluid remaining in hoist conveyance lines indicated that the hydraulic fluid was primarily composed of total petroleum hydrocarbons as oil-range and diesel-range organics (ORO and DRO, respectively) with low concentrations of tetrachloroethene (PCE) and lead. DRO, ORO, and/or PCE were detected in soil samples collected from two hydraulic hoist excavations at concentrations exceeding the MTCA Method A cleanup levels. Carcinogenic polycyclic aromatic

hydrocarbon (cPAH) contamination was also detected at toxicity equivalent concentrations (TEC) exceeding the MTCA Method A cleanup level in soil in three hoist excavations. The cPAH contamination is not co-located with confirmed releases from the hydraulic hoists to soil and is likely associated with historical placement of fill material on the Block 79 East Property.

Excavated soil was segregated for each excavation, profiled using in-situ and stockpile soil samples, and disposed of off the Block 79 East Property in accordance with applicable requirements. All excavations on the Block 79 East Property were lined with plastic, backfilled with clean gravel, compacted, and capped with asphalt at the original surface grade. Data gaps identified in this report, including evaluating impacts to groundwater, bounding confirmed releases, and further evaluating soil impacts associated with historical fill placement, will be addressed as part of the Remedial Investigation to be performed for the Block 79 East Property under the Agreed Order currently under negotiation between Block 79 LLC and Ecology.

1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this summary report to document the results from the historical feature decommissioning and removal activities conducted at the property at 701, 739, and 753 9th Avenue North in Seattle, Washington (herein referred to as the Block 79 East Property) (Figure 1). Farallon previously prepared the *Historical Feature Decommissioning and Removal Work Plan, Block 79 East Property, 701, 739, and 753 9th Avenue North, Seattle, Washington* dated February 1, 2021 (Work Plan) (Appendix A) at the request of Block 79 LLC to guide planned decommissioning and removal work at the Block 79 East Property. The Work Plan was provided to the Washington State Department of Ecology (Ecology) for review and Ecology provided its conditional approval for the scope of work described in the Work Plan on January 29, 2021.

Work was performed on the Block 79 East Property from March 8 through 17, 2021 and comprised permanent decommissioning and removal of a 1,600-gallon waste oil underground storage tank (UST); removal of a previously decommissioned in-place 900-gallon heating oil UST, and removal of 11 underground hydraulic hoists (Figure 2). This summary report has been prepared to document decommissioning and removal work performed, and includes the appropriate elements of a UST Site Assessment Report identified in the *Site Assessment Guidance for Underground Storage Tank Systems* dated January 2021, prepared by Ecology.

Block 79 LLC is in the process of negotiating an Agreed Order with Ecology to conduct a Remedial Investigation and Feasibility Study and other work elements at the Block 79 East Property. Work described in this summary report was not performed in lieu of, and will not supplant, work to be performed under the Remedial Investigation and other remedial action(s) that will be conducted under the forthcoming Agreed Order. However, data generated as part of the work described herein will be reported and evaluated as part of the Remedial Investigation.

2.0 BACKGROUND

The Block 79 East Property comprises King County Parcel Nos. 4088803435, 4088803565, 408803440, and 4088803485, totaling approximately 1.52 acres of land in Seattle, King County, Washington (Figure 1). The Block 79 East Property is bordered to the north by Aloha Street, to the east by 9th Avenue North, to the south by Roy Street, and to the west by an alleyway and adjacent commercial property owned by Seattle City Light. The topography surrounding the Block 79 East Property is predominantly flat, with a mild slope down toward Lake Union. The ground surface elevation ranges from approximately 28 to 38 feet North American Vertical Datum of 1988 (NAVD88). The ground surface rises and the slope increases to the west beyond 8th Avenue North as it approaches the lower portion of Queen Anne hill. Detailed descriptions of surrounding land use and previous work conducted at the Block 79 East Property are provided in the Work Plan (Appendix A).

For clarity, each King County parcel currently comprising part of the Block 79 East Property was assigned a name (Figure 2):

- Parcel No. 4088803435: 701 9th Avenue North, Buca di Beppo Property;
- Parcel No. 4088803440: 721 9th Avenue North, Ducati Property (includes former Public Garage);
- Parcel No. 4088803485: 739 9th Avenue North, Maaco Property; and
- Parcel No. 88803565: 753 9th Avenue North, Former Bayshore Volvo Property.

Review of available documentation for the Block 79 East Property identified the following historical features for decommissioning and/or removal (Work Plan, Figure 2):

- The suspected heating oil/waste oil UST (UST-A) and associated waste oil sump and conveyance piping on the western portion of the Ducati Property;
- The four observed hydraulic hoists with conveyance lines penetrating the existing concrete slab in the central portion of the Ducati Property;
- The suspected UST fill port and associated UST (if present) on the eastern portion of the Ducati Property;
- The former 900-gallon heating oil UST previously closed in-place on the Maaco Property (UST-L); and
- The concrete gutters and grates along the property line between the Maaco Property and the Former Bayshore Volvo Property.

Farallon did not identify any public records that indicated UST-A was previously registered with Ecology. UST-L was suspected to be exempt due to its total volume of less than 1,100 gallons and history of containing only heating oil.

2.1 GEOLOGY AND HYDROGEOLOGY

A detailed description of geology and hydrogeology at the Block 79 East Property is provided in the Work Plan. The subsurface at the Block 79 East Property generally comprises shallow fill material from the ground surface to a depth of approximately 20 to 30 feet below ground surface (bgs). The fill material overlies recent alluvial[1] and/or lacustrine sediments that extend to a depth of approximately 80 feet bgs, followed by glacial till to the maximum depth explored of 100 feet bgs. Based upon Farallon's observations during decommissioning and removal activities at the Block 79 East Property, all excavation and historical feature removal activities were limited to depths that remained within the surficial fill material on the Site. Native alluvial deposits were not observed.

Previous shallow groundwater elevation monitoring indicated that the general direction of groundwater flow at the Block 79 East Property is east to northeast on the northern portion of the property, and east on the southern portion. Prior to commencing decommissioning and removal activities, Farallon measured depths to groundwater at monitoring wells MAA-MW-3 and MW-5, which ranged from 11.25 to 16.71 feet bgs on March 8, 2021.

[1]Alluvial deposits referenced in this section include outwash sand deposits.

3.0 DECOMMISIONING ACTIVITY SUMMARY

Decommissioning services were provided by Construction Group International of Woodinville, Washington (CGI) and Ecocon Inc. of Fox Island, Washington (ECI) and observed by Farallon. Brad Reilly (Certification No. 8289423) of ECI served as the Washington State UST Decommissioner. Courtney van Stolk (Certification No. 9765003) of Farallon served as the Washington State UST Site Assessor for UST decommissioning activities. Decommissioning and removal work were conducted in accordance with the Work Plan; the requirements identified in Ecology's *Guidance for Remediation of Petroleum Contaminated Sites* dated September 2011, revised June 2016 (Ecology Guidance); and the UST regulations established in Chapter 173-360 of the Washington Administrative Code (WAC 173-360). The UST site assessment was conducted in accordance with the Ecology *Guidance for Site Checks and Site Assessments for Underground Storage Tanks* dated February 1991, revised April 2003. Documentation, including certifications, permits, and other records for both UST and non-regulated feature decommissioning are provided in Appendix B. Photographs of removal activities are provided in Appendix C.

3.1 PRECONSTRUCTION

A 30-Day Notice to permanently decommission UST-A and UST-L was submitted to Ecology on February 1, 2021; Ecology confirmed receipt of the 30-Day Notice on February 4, 2020. Farallon contracted with Linescape of Washington LLC of Olympia, Washington (Linescape) to perform magnetic trace of the suspected fill port and ground-penetrating radar (GPR) survey on the Block 79 East Property on March 5, 2020.

Interference from reinforcing rebar prevented GPR from confirming the UST-A and UST-L locations. The magnetic trace from the suspected fill port on the Ducati Property led to a depression in the existing asphalt, and a GPR survey of the depression did not identify a suspected UST (Figure 2). Following completion of the private locates, CGI, ECI, and Farallon mobilized to the Block 79 East Property for decommissioning and removal activities on March 8, 2021.

3.2 UST DECOMMISSIONING AND REMOVAL

UST decommissioning and removal activities are described below. Removal and/or weatherizing of hydraulic hoists and other site features are discussed in the following sections.

3.2.1 UST-A Decommissioning

Permanent decommissioning and removal of UST-A was performed March 8 through 10, 2021. On March 8, CGI removed concrete and asphalt in an approximately 25- by 15-foot area to expose UST-A. UST-A was confirmed to be present directly underneath the previously identified waste oil sump. UST-A was oriented north-south and measured 12-feet in length and 5-feet in diameter. Two fill lines were attached at the north end of the tank and ran west to a fill port and vent line in the alleyway exterior to the building (Figure 2). Two additional lines entered the top of UST-A from the central portion of the Ducati Property from the waste oil sump. The soil surrounding the

UST-A top-lines exhibited dark gray staining and Farallon observed a strong petroleum odor when the soil was excavated (Appendix C, Photograph 4). Farallon collected a residual product sample through the open fill port for waste characterization. Linescape performed an additional locate of the lines running from UST-A on March 10 using an energized trace. Conveyance pipe locations (based upon the magnetic trace performed by Linescape) are shown on Figure 2.

ECI obtained permits for Commercial Tank Removal/Decommissioning and Land-Based Hot Work from the Seattle Fire Department on March 9, 2021 (Appendix B). UST-A was inerted using carbon dioxide by Marine Chemist Philip Dovinh (Cert No. 667) of U.S. Marine Chemists and Engineers of Mukilteo, Washington on March 9, 2021 and certified for hot work and cleaning (Appendix C, Photograph 5). Inspector Doug Seegmiller from the Seattle Fire Department confirmed that the requirements of the Decommissioning Permit were met and provided authorization for the UST removal on March 9, 2021. UST-A was then cut open for cleaning by ECI under Philip Dovinh's supervision (Appendix C, Photograph 6). ECI measured approximately 5 inches of residual product in the bottom of the tank. Marine Vacuum Service Inc. of Seattle, Washington removed the residual product from UST-A and the identified conveyance lines. UST-A was then triple-rinsed and the wastewater removed in accordance with Part 280 of Title 40 of the Code of Federal Regulations (40 CFR 280) and WAC 173-360-380(I) (Appendix B).

UST-A was removed on March 10, 2021 by CGI under Farallon and ECI supervision using an excavator with a "thumb" attachment to grasp the end of the tank and pull it from the ground (Appendix C, Photograph 7). Conveyance lines were cut, sealed, and capped at the edge of the excavation. At the time of removal, Farallon observed significant corrosion, including multiple holes ranging in diameter from 1 to 3 inches on the bottom of UST-A (Appendix C, Photograph 8). Following removal, Farallon observed heavily stained soil in the bottom of the UST-A excavation (Appendix C, Photograph 9). Based on the condition of the bottom of UST-A and the observed staining in the UST-A excavation, additional soil was removed from the bottom of the UST-A excavation on March 12, 2021 to a depth of approximately 13 feet bgs, at which depth petroleum product-saturated soil was observed. Ecology was notified of the product-saturated soil on March 13, 2021.

On March 15, 2021, in accordance with the Work Plan and the requirements of WAC 173-304-450(2)(a), product-saturated soil was removed to the maximum extent practicable from the UST-A excavation to a depth of 15 feet bgs where groundwater was encountered (Appendix C, Photograph 10). Excavation beyond 15 feet bgs and/or extending the excavation beyond the limits of the existing UST-A excavation would have required shoring to protect the adjacent alleyway and removal of at least 10 feet of overburden to reach the product-saturated material, and constituted the limit of practicability for these removal activities. Soil samples were collected from the limits of the UST-A excavation in accordance with the Work Plan (see below).

Approximately 130 cubic yards (76 tons) of soil was removed from the UST-A excavation and stockpiled immediately east of the excavation limits (Figure 2). Three soil samples were collected from the UST-A spoils stockpile and the analytical results were used in addition to in-situ soil samples collected from the excavation to profile the soil for disposal. CGI lined the UST-A

excavation with plastic and backfilled it with clean gravel material on March 16 (Appendix C, Photograph 12). An asphalt cap was applied on March 21, 2021.

3.2.2 UST-L Decommissioning

UST-L was located using the fill port and concrete patching on the Former Maaco Property on March 9, 2021, and the UST atmosphere was tested through the fill port and confirmed to be inert by Marine Chemist Philip Dovinh. Inspector Doug Seegmiller from the Seattle Fire Department confirmed that the requirements of the Decommissioning Permit were met and provided authorization for the UST removal on March 9, 2021. On March 9, CGI removed an area of concrete slab approximately 10 feet by 12 feet in extent and 6 inches thick, with approximately 2.5 feet of soil overburden to uncover UST-L (Figure 2). UST-L was oriented east-west and measured 10 feet long and 4 feet in diameter. CGI opened the top of the tank using an excavator to inspect the UST contents (Appendix C, Photograph 1). CGI and ECI removed UST-L from the ground on March 9, 2021 and set it on a trailer wrapped in plastic pending tank contents analysis results (Appendix C, Photograph 2). Groundwater was not observed in the UST-L excavation. Farallon did not observe holes in the surface of the tank. Farallon and ECI observed lines extending to the north of the tank.

Linescape performed an additional locate of the lines running from UST-L on March 10, 2021 using an energized trace. UST-L conveyance pipe locations were confirmed to extend to the west and north (Figure 2). Conveyance lines were cut, sealed, and capped at the edge of the excavation. No residual product was observed in the conveyance lines. Soil samples were collected from the limits of the UST-L excavation in accordance with the Work Plan. Approximately 55 cubic yards (93 tons) of soil was removed from the UST-L excavation and stockpiled immediately west of the excavation limits (Figure 2). Three soil samples were collected from the UST-L spoils stockpile in accordance with the Work Plan and Ecology Guidance to profile the soil for disposal. On March 11, CGI lined the UST-L excavation with plastic and backfilled it using imported clean gravel (Appendix C, Photograph 3). An asphalt cap was applied on March 22, 2021.

3.3 HYDRAULIC HOIST REMOVAL

Hydraulic hoist decommissioning and removal activities were performed from March 8 through 15, 2021. On March 8, 2021, Farallon collected product samples (herein referred to as "hydraulic fluid") from conveyance lines leading to Hoist-3 and Hoist-4 (Figure 2). Residual hydraulic fluid present in the conveyance lines and hoist cylinders was removed at the time the features were pulled from the ground. Conveyance lines that were not fully removed were vacuumed out, sealed, and capped at the time of hoist removal.

Removal of hydraulic hoists on the Ducati Property was performed using an excavator to pull the hoist cylinders vertically out of the ground one at a time. Multiple additional hoists were identified during removal of the original hoist bank identified in the Work Plan and removal of UST-A. Additional hoists were removed and sampling was performed consistent with the requirements

previously identified for hydraulic hoists in the Work Plan. Hoist excavation areas are provided on Figure 2. Key observations and dates for hydraulic hoist removal are provided below:

- Hoist-S1, removed March 12: No soil staining observed.
- Hoist-S2, removed March 11, 2021: No soil staining observed.
- Hoist-S3, removed March 12, 2021: No soil staining was observed but additional product was removed from the hoist cylinder.
- Hoist-S4, removed March 15, 2021: No soil staining or odor was observed.
- Hoist-S5, removed March 10, 2021: No soil staining or odor was observed.
- Hoist-S6, removed March 15, 2021: No soil staining or odor was observed.
- Hoist-1, removed March 12, 2021: The hoist cylinder was observed to be leaking at a depth of approximately 7 feet bgs, and additional product removal was performed.
- Hoist-2, removed March 11, 2021: Stained soil was observed at the bottom of the excavation, and additional soil was excavated until no visual impacts were observed.
- Hoist-3, removed March 12, 2021: The hoist was observed to be leaking during removal, and additional product removal was performed.
- Hoist-4, removed March 11, 2021: No soil staining or odor was observed.
- Hoist-5, removed March 10, 2021: No soil staining or odor was observed.
- Hoist-6, removed March 12, 2021: Corrosion and holes were observed in the conveyance line to hoist cylinders, and additional product removal was performed.

Soil from hoist excavations was segregated from UST-A and UST-L soil and temporarily stockpiled on the Block 79 East Property prior to off-site disposal. On March 16, CGI lined all the hoist excavations with plastic, backfilled with gravel, and compacted the fill material. Asphalt caps were applied to all excavations on March 22, 2021.

3.4 TRENCH DRAINS AND GRATES

Trench drains and grates along the property line between the Maaco and Former Bayshore Volvo Properties were capped in accordance with the Work Plan. No sampling was performed.

3.5 WASTE DISPOSAL

Broken asphalt/concrete was stockpiled on the Block 79 East Property prior to disposal at Concrete Recyclers Inc. in Renton, Washington. UST-L soil waste profiles were completed on March 15, 2021. Approximately 50 tons of stockpiled UST-L soil was removed on March 16 and 17, 2021 for disposal at Roosevelt Regional Landfill in Roosevelt, Washington.

Analytical results for soil from the UST-A and hydraulic hoist excavations required handling and disposal of that soil as hazardous waste. A waste profile for the UST-A and hydraulic hoist excavation soil was completed on March 22, 2021. Approximately 90 tons of stockpiled soil (estimated 76 tons from UST-A and 14 tons from the hydraulic hoists) was removed from the Block 79 East Property on March 26, 2021 for final disposal at the Chemical Waste Management Subtitle C hazardous waste landfill in Arlington, Oregon under EPA Identification No. WAD988518163. Shipping manifests are provided in Appendix D.

4.0 PRODUCT AND SOIL SAMPLING AND ANALYSIS

This section describes residual petroleum product and soil sampling performed during historical feature decommissioning and removal and the laboratory analyses performed. Sampling locations are shown on Figure 2. Analytical results are provided in Section 6, Assessment Sampling Results.

4.1 UST-A SAMPLING

Farallon collected residual petroleum product and soil samples from UST-A and the UST-A excavation in accordance with the requirements identified in the Work Plan and Ecology Guidance. A sample of residual product was collected from UST-A on March 9, 2021. Soil sample locations are presented on Figure 2. UST-A excavation soil samples were:

- Collected on March 3, 2021 from the northern, eastern, western, and southern sidewalls of the UST-A excavation at a depth of 10 feet bgs and below the bottom of UST-A at a depth of 11 feet bgs;
- Collected on March 12, 2021 from the bottom of the UST-A excavation at a depth of 15 feet bgs; and
- Collected on March 15, 2021 from the northern, eastern, western, and southern sidewalls of the UST-A excavation at a depth of 15 feet bgs.

Locations for soil samples collected on March 15, 2021 marked the maximum limits of the UST-A excavation (Figure 2). Three soil samples were collected from stockpiled soil removed from the UST-A excavation for waste profiling on March 11, 2021.

4.2 UST-L SAMPLING

Farallon collected a sample of the control density fill (CDF) observed in UST-L and soil samples from the UST-L excavation in accordance with the requirements identified in the Work Plan and Ecology Guidance. Sample locations are presented on Figure 2. Soil samples were collected from the UST-L excavation on March 9, 2021 from the northern, eastern, western, and southern sidewalls at a depth of 6 feet bgs. A sample was also collected from the bottom of the UST-L excavation at a depth of 7.5 feet bgs. Three soil samples were collected from stockpiled soil removed from the UST-L excavation on March 9, 2021 for waste profiling.

4.3 HYDRAULIC HOIST SOIL SAMPLING

Residual product samples were collected from conveyance lines connected to Hoist-3 and Hoist-4 on March 8, 2021. Soil sampling from hydraulic hoist excavations was performed at the time of removal. Several hoists were pulled directly from the ground, leaving excavations that were approximately 1.5 to 2 feet in diameter and up to 8 feet deep. Sampling for individual hydraulic hoists was performed by collecting soil directly off the bottom of the hoist once it was removed or using a hand auger with extensions to collect undisturbed soil from the bottom of individual hoist

excavations. Where multiple hoists were positioned closely together or excavations were enlarged to facilitate removal, additional samples were collected at the bottoms of excavation sidewalls as practicable. Soil samples collected were:

- Hoist-S1, not sampled: Collected from north- and south-adjacent locations.
- Hoist-S2: Collected from the excavation bottom at a depth of 8.5 feet bgs.
- Hoist-S3, not sampled: Collected from the south-adjacent Hoist-5 and north-adjacent Hoist-6 excavations.
- Hoist-S4, sampled March 15, 2021: Collected from the excavation bottom at a depth of 8 feet bgs.
- Hoist-S5, not sampled: The hoist was within the sampled extents of the UST-A excavation.
- Hoist-S6, sampled March 15, 2021: Collected from the excavation bottom at a depth of 8 feet bgs.
- Hoist-1, sampled March 12, 2021: Collected from the southern, eastern, and western sides of the excavation at a depth of 6 feet bgs.
- Hoist-2, sampled March 11, 2021: Collected from the excavation bottom at a depth of 10 feet bgs, the western side of the excavation at 7 feet bgs, and the northern side of the excavation at 9 feet bgs.
- Hoist-3, sampled March 12, 2021: Collected from the western side of the excavation at a depth of 8 feet bgs, the northern side at 9 feet bgs, and the eastern side at 7 feet bgs.
- Hoist-4, sampled March 11, 2021: Collected from the excavation bottom at a depth of 9 feet bgs, and the eastern side of the excavation at 8 feet bgs.
- Hoist-5, sampled March 10, 2021: Collected from the excavation bottom and the eastern and western sides of the excavation at a depth of 10 feet bgs.
- Hoist-6, sampled March 12, 2021: Collected from the northern and western sides of the excavation at a depth of 6 feet bgs.

Three soil samples were collected from stockpiled hoist excavation soil on March 15, 2021 for waste profiling in addition to the in-situ samples collected.

4.4 ANALYTICAL METHODS

Residual product, CDF, and soil samples were placed on ice and submitted to OnSite Environmental Inc. of Redmond Washington under standard chain-of-custody protocols. Samples were analyzed for one or more of the following analytes by analytical methods shown in accordance with the Work Plan and Ecology Guidance:

- Hydrocarbon identification by Northwest Method NWTPH-HCID;

- Total petroleum hydrocarbons as gasoline-range organics (GRO) by Northwest Method NWTPH-Gx;
- Total petroleum hydrocarbons as diesel-range organics (DRO) and as oil-range organics (ORO) by Northwest Method NWTPH-Dx;
- Volatile organic compounds by U.S. Environmental Protection Agency (EPA) Method 8260;
- Resource Conservation and Recovery Act metals by EPA Method Series 200/6000/7000;
- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) by EPA Method 8270; and
- Polychlorinated biphenyls by EPA Method 8082.

Residual product from UST-A and CDF tank contents from UST-L were not analyzed by Method NWTPH-HCID since laboratory practical quantitation limits (PQLs) for Methods NWTPH-Dx and NWTPH-Gx were lower than those reported for NWTPH-HCID.

5.0 WORK PLAN DEVIATIONS AND CORRECTIVE ACTION

Deviations from the approved Work Plan and corrective actions performed were:

- The magnetic trace from the suspected fill port on the Ducati Property did not identify a UST. The suspected fill port was capped at the ground surface, and no invasive sampling was performed. No corrective action was required.
- An additional seven hydraulic hoists were uncovered during historical decommissioning. The hoists were removed and the excavations sampled in accordance with the Work Plan.
- Residual product collected from UST-A was not analyzed by analytical Method NWTPH-HCID. The analytical results for Method NWTPH-Dx and NWTPH-Gx reported lower PQLs than Method NWTPH-HCID in the hydraulic fluid samples. Stained soil collected directly below the UST-A invert was analyzed by Method NWTPH-HCID. The combined analytical results of the soil sample collected directly below UST-A and the residual product were deemed sufficient without the additional NWTPH-HCID analysis.
- Residual product collected from UST-A was not analyzed for gasoline additives. The reported concentration of GRO was impacted by heavier-range hydrocarbons and GRO was not detected in the soil sample collected directly below the UST-A invert, which was analyzed by analytical Method NWTPH-HCID. Benzene, toluene, ethylbenzene, and xylenes compounds commonly associated with gasoline were also reported non-detect at the laboratory PQL in the UST-A residual product sample. Based on the lack of a confirmed GRO detection and absence of gasoline-associated compounds, gasoline additive testing was not considered necessary.

6.0 ASSESSMENT SAMPLING RESULTS

Analytical results for historical feature decommissioning and removal are provided below. Analytical results for select petroleum hydrocarbons in soil are presented on Figure 3. Analytical results for tetrachloroethene (PCE) in soil are presented on Figure 4. Analytical results for lead, cadmium, and cPAHs are presented on Figure 5. Summary soil sample analytical results are provided in Tables 1 through 5. Complete analytical laboratory reports are provided in Appendix D. Analytical results in this section are compared to standard Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A and Method B standard formula values for reference. Screening and final cleanup levels for the Block 79 Property and associated "site" as defined under MTCA will be identified and confirmed as part of work to be performed under the forthcoming Agreed Order.

6.1 UST-A SAMPLING RESULTS

Multiple analytes were detected in the residual petroleum product samples collected from UST-A (Tables 1 through 5). Review of the analytical laboratory results, laboratory chromatograms, and analytical results flags indicates the residual product profile is consistent with waste oil. Analytes detected included DRO, ORO, GRO, metals, and cPAHs. ORO was detected at a concentration of 530,000 milligrams per kilogram (mg/kg) in petroleum product samples collected from UST-A, approximately 8 times the reported concentration of DRO and 600 times the reported concentration of GRO.

DRO and ORO were detected at concentrations of 11,000 and 73,000 mg/kg, respectively, exceeding their MTCA Method A cleanup levels, in soil samples collected from overburden on top of UST-A at the connection with the conveyance lines at a depth of 3 feet bgs (Figure 3; Table 1). PCE, cadmium, lead, and cPAHs were also reported at concentrations exceeding their respective MTCA cleanup levels in the same soil sample (Figure 4; Tables 2 through 5). DRO and ORO were detected at concentrations exceeding their MTCA Method A cleanup levels in the soil samples collected from the limits of the UST-A excavation on the east, north, and south sidewalls and excavation bottom at a depth of 15 feet bgs (Figure 2; Table 1). Lead was detected at concentrations of 17,000 and 350 mg/kg, exceeding the MTCA Method A cleanup level of 250 mg/kg, in the soil samples collected from directly below UST-A and from the excavation bottom, respectively (Figure 5; Table 3). The total cPAHs toxic equivalent concentration reported for the sample collected from the UST-A excavation bottom was 0.86 mg/kg, which exceeds the MTCA Method A cleanup level of 0.1 mg/kg (Figure 5; Table 4).

PCE was detected at concentrations less than the MTCA Method A cleanup level, ranging from 0.0012 to 0.0051 mg/kg in UST-A excavation soil samples collected from the north and east sidewalls at a depth of 10 feet bgs, from directly below UST-A, and in the soil sample collected from the bottom of the excavation (Figure 3; Table 2). Other analytes, including GRO, benzene, toluene, ethylbenzene, xylenes, metals, other chlorinated VOCs, and polychlorinated biphenyls,

were either detected at concentrations less than their MTCA cleanup levels or reported non-detect at the laboratory PQL (Tables 1 through 4).

The reported data indicate a release of waste oil from UST-A that has contaminated soil on the Ducati Property. The release is bounded to the west by sample UST-A-W-15 but is not bounded to the north, east, or south. Based on Farallon's observations of product-saturated soil at the water table during permanent decommissioning of UST-A, the waste oil release has likely contaminated groundwater below the UST-A excavation.

6.2 UST-L SAMPLING RESULTS

Diesel-fuel #2 was detected at a concentration of 63,000 mg/kg in the sample collected from the CDF inside UST-L (Table 1). ORO was reported non-detect at the laboratory PQL. The reported analytical results are consistent with the reported historical use for UST-L storing heating oil.

DRO and ORO were either detected at concentrations less than their MTCA Method A cleanup levels or were reported non-detect at the laboratory PQL in all soil samples collected from the UST-L excavation (Figure 3; Table 1). The reported analytical results are consistent with historical results reported for soil samples taken proximate to UST-L. Based on the available analytical results and Farallon's observations, including the integrity of UST-L at the time of removal, petroleum hydrocarbon impacts to soil proximate to UST-L are likely associated with historical fill on the Maaco Property. Available analytical data do not indicate a release of heating oil from UST-L.

6.3 HYDRAULIC HOIST SAMPLING RESULTS

Multiple analytes, including petroleum hydrocarbons, PCE, lead, and cPAHs, were detected in the residual hydraulic fluid collected from the Hoist-3 and Hoist-4 conveyance lines (Tables 1 through 5). The primary constituents in the hydraulic fluid collected from both hoists were ORO and DRO (Table 1). PCE and lead were also detected in hydraulic fluid at concentrations ranging from 6.7 to 12 mg/kg and 13 to 30 mg/kg, respectively. The reported concentrations of PCE and lead make up less than 0.01 percent of the hydraulic fluid on a total-mass-reported basis.

DRO and ORO were detected at concentrations of 7,700 and 17,000 mg/kg, respectively, exceeding their MTCA Method A cleanup levels, in the soil sample collected from Hoist-S6 at a depth of 8 feet (Figure 3; Table 1). DRO and ORO were reported at concentrations less than MTCA Method A cleanup levels in soil samples collected from excavations for Hoist-S4 to the north and in sample UST-A-N collected from the UST-A excavation sidewall at a depth of 10 feet bgs (Figure 3; Table 1).

ORO was detected at a concentration of 4,000 mg/kg in the soil sample collected from the Hoist-1 excavation on the south sidewall at a depth of 7 feet bgs. PCE was detected at a concentration of 0.058 mg/kg, slightly exceeding the MTCA Method A cleanup level of 0.05 mg/kg (Figures 3 and 4; Tables 1 and 2) in the same sample. DRO, ORO, and/or PCE were detected at concentrations

less than MTCA Method A cleanup levels, or were reported non-detect, in soil samples collected from the east and west sidewalls of the Hoist-1 excavation at a depth of 7 feet bgs (Figures 3 and 4; Tables 1 and 2).

cPAH TEC were detected at concentrations exceeding the MTCA Method A cleanup level of 0.1 mg/kg in soil samples collected from the excavations for Hoist-3, Hoist-5, and Hoist-S4 at depths between 8 and 10 feet bgs (Figure 5; Table 4). Petroleum hydrocarbons, HVOCs, and metals were detected at concentrations less than MTCA cleanup levels in the same samples (Figure 5; Table 4). Low concentrations of PCE and metals were detected in multiple samples collected from the hydraulic hoist excavations (Figures 4 and 5; Tables 2 through 4). PCBs and chlorinated VOCs other than PCE were reported non-detect at the laboratory PQLs in all soil samples collected from hydraulic hoist excavations (Table 5).

The reported analytical results indicate releases of hydraulic fluid have contaminated soil at Hoist-1 and Hoist-S6 with DRO, ORO, and/or PCE detected at concentrations exceeding MTCA Method A cleanup levels. The hydraulic fluid release at Hoist-1 is bounded to the northeast and northwest by sidewall samples collected from the same excavation; the release is not bounded vertically or to the east, west, or south. The hydraulic fluid release at Hoist-S6 is bounded to the north by the soil sample collected from the Hoist-S4 excavation south sidewall at a depth of 8 feet bgs and the soil sample collected from the north sidewall of the UST-A excavation at a depth of 10 feet bgs. The release at Hoist-S6 is not bounded vertically, to the east, or to the west. Reported concentrations of cPAHs that exceed the MTCA Method A cleanup level in hydraulic hoist excavations (i.e., soil samples Hoist-3-W, Hoist-5-W, and Hoist-S4-8.0) are not co-located with high concentrations of total petroleum hydrocarbons or confirmed releases of hydraulic fluid and are likely associated with historical fill on the Block 79 East Property.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Farallon prepared this summary report to document historical feature decommissioning and removal activities conducted at the Block 79 East Property in Seattle, Washington. The historical feature decommissioning and removal work was performed in accordance with the previously prepared Work Plan that was reviewed by Ecology and granted conditional approval on January 29, 2021. Historical feature decommissioning and removal included removal of a previously decommissioned in place 900-gallon heating oil UST (UST-L), a 1,600-gallon waste oil UST (UST-A), and removal of 11 underground hydraulic hoists (Figure 2).

Permanent decommissioning and removal of UST-A and UST-L were performed in accordance with the Work Plan and included the following elements:

- Gaging the depth to groundwater at existing monitoring wells on the Block 79 East Property prior to beginning work;
- Filing a 30-day Notice for Underground Storage Tank Systems with Ecology and coordination with the Seattle Fire Department to permit the permanent decommissioning and removal;
- Flushing accessible product lines to transfer residual fuel in the lines back into the UST;
- Inerting or testing both UST atmospheres by a Marine Chemist in preparation for removal;
- Removing overburden to the USTs, sampling and removing residual product, and cleaning the UST interior (UST-A only);
- Excavating around and removing each UST, and inspecting its condition;
- Collecting site assessment soil samples as specified by Ecology Guidance;
- Completing the Ecology UST Site Check/Site Assessment Checklist;
- Lining each UST excavation with polyethylene plastic prior to backfilling and compacting with clean fill to the existing surface grade; and
- Restoring the existing ground surface and grade with hot-mix asphalt.

Although not regulated as USTs under WAC 173-360, the hydraulic hoists that were located on the Block 79 East Property were treated as a UST system for the purposes of decommissioning and removal.

Permanent decommissioning and removal of UST-A were performed March 8 through 10, 2021. UST-A was located directly underneath the previously identified waste oil sump on the Ducati Property and was observed to contain residual product that analytical results confirmed to be waste oil (Figure 2). UST-A was inerted, cleaned, and removed on March 10, 2021 in accordance with Ecology Guidance and applicable requirements. Conveyance lines to UST-A were cut, sealed, and capped at the edge of the excavation (Appendix C, Photograph 11). UST-A was observed to be in

poor condition at the time of removal and soil staining was observed in both overburden and below the tank invert, which prompted removal of additional soil from the bottom of the UST-A excavation to a maximum depth of 15 feet bgs. Product-saturated soil was observed in the excavation on March 12, 2021 at depths between 13 and 15 feet bgs and was removed to the maximum extent practicable. Ecology was notified of the product-saturated soil on March 13, 2021, and of the confirmed release from UST-A on April 7, 2021. Analytical results from soil sampling in the UST-A excavation and visual observations confirmed a release of waste oil from UST-A that has contaminated soil and likely groundwater on the Ducati Property.

Permanent decommissioning and removal of UST-L was performed on March 9, 2021. UST-L was located directly underneath an existing concrete patch on the Maaco Property (Figure 2). UST-L was confirmed to have been previously decommissioned in place and partially filled with CDF. Sampling and analysis of the CDF confirmed UST-L previously held Diesel Fuel #2. UST-L was removed on March 9, 2021 in accordance with Ecology Guidance and applicable requirements. Conveyance lines to UST-L were cut, sealed, and capped at the edge of the excavation. UST-L was observed to be in good condition at the time of removal and no soil staining was observed in the UST-L excavation. UST-L excavation soil sampling confirmed that impacts to soil immediately adjacent to the tank were less than applicable MTCA cleanup levels. The reported concentrations of DRO and ORO in soil collected from the UST-L excavation were less than MTCA cleanup levels, and were not consistent with the Diesel Fuel #2 result in the UST-L CDF. The analytical results do not indicate a release of heating oil from UST-L has occurred; reported petroleum impacts are likely associated with historical fill placement on the Ducati Property.

Multiple hydraulic hoists were removed from the Ducati Property between March 8 and 15, 2021. Testing of residual hydraulic fluid remaining in hoist conveyance lines indicated the hydraulic fluid was primarily composed of ORO and DRO with low concentrations of PCE and lead. DRO, ORO, and/or PCE were detected at concentrations exceeding their MTCA Method A cleanup levels in soil samples collected from the excavations for Hoist-1 and Hoist-S6 that indicate releases of hydraulic fluid to soil in both excavations. CPAHs were detected at TEC concentrations exceeding the MTCA Method A cleanup level in soil samples collected from excavations for Hoist-3, Hoist-5, and Hoist-S4 at depths between 8 and 10 feet bgs (Figure 5; Table 4). The cPAH exceedances are not co-located with the confirmed releases of hydraulic fluid and are likely associated with historical fill material on the Block 79 East Property.

Excavated soil was segregated for each excavation, profiled using in-situ and stockpile soil samples, and disposed of off the Block 79 East Property in accordance with applicable requirements. UST-L excavation soil was disposed of as nonhazardous waste at Roosevelt Regional Landfill. UST-A and hydraulic hoist excavation soils were disposed of at the Chemical Waste Management Subtitle C hazardous waste landfill under EPA Identification No. WAD988518163. All excavations on the Block 79 East Property were lined with plastic, backfilled with clean gravel, compacted, and capped with asphalt at the original surface grade.

Additional characterization of the Block 79 East Property is planned as part of the Remedial Investigation to be conducted under the forthcoming Agreed Order between Block 79 LLC and Ecology. Based on Farallon's observations and analytical data reported as part of historical feature decommissioning and removal, additional characterization to be performed as part of the Remedial Investigation will include:

- Evaluating groundwater impacts proximate to the confirmed release of waste oil at UST-A using permanently installed monitoring wells.
- Bounding confirmed releases to soil of waste oil at UST-A vertically and to the north, south, and east.
- Bounding confirmed releases of hydraulic fluid at the excavations for Hoist-1 (vertically, south, east, and west) and Hoist-S6 (vertically, east, and west).
- Further evaluating soil impacts associated with historical fill placement on the Block 79 East Property that has resulted in cPAH TEC exceedances of the MTCA cleanup level.

8.0 REFERENCES

Farallon Consulting. 2021. *Historical Feature Decommissioning and Removal Work Plan Block 79 East Property 701, 739, 753 9th Avenue North, Seattle, Washington.* Prepared for Block 79 LLC. February 1.

Washington State Department of Ecology. 2021. *Site Assessment Guidance for Underground Storage Tank System.* Publication 21-09-050. January.

———. 2011. *Guidance for Remediation of Petroleum Contaminated Sites.* Publication No. 10-09-057. Revised June 2016.

9.0 LIMITATIONS

9.1 GENERAL LIMITATIONS

The conclusions contained in this report/assessment are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location. The conclusions contained herein are subject to the following inherent limitations:

- **Accuracy of Information**. Farallon obtained, reviewed, and evaluated certain information used in this report/assessment from sources that were believed to be reliable. Farallon's conclusions, opinions, and recommendations are based in part on such information. Farallon's services did not include verification of its accuracy or authenticity. Should the information upon which Farallon relied prove to be inaccurate or unreliable, Farallon reserves the right to amend or revise its conclusions, opinions, and/or recommendations.
- **Reconnaissance and/or Characterization**. Farallon performed a reconnaissance and/or characterization of the Site that is the subject of this report/assessment to document current conditions. Farallon focused on areas deemed more likely to exhibit hazardous materials conditions. Contamination may exist in other areas of the Site that were not investigated or were inaccessible. Site activities beyond Farallon's control could change at any time after the completion of this report/assessment.

For the foregoing reasons, Farallon cannot and does not warrant or guarantee that the Site is free of hazardous or potentially hazardous substances or conditions, or that latent or undiscovered conditions will not become evident in the future. Farallon's observations, findings, and opinions can be considered valid only as of the date of the report.

This report/assessment has been prepared in accordance with the contract for services between Farallon and Block 79 LLC, and currently accepted industry standards. No other warranties, representations, or certifications are made.

9.2 LIMITATION ON RELIANCE BY THIRD PARTIES

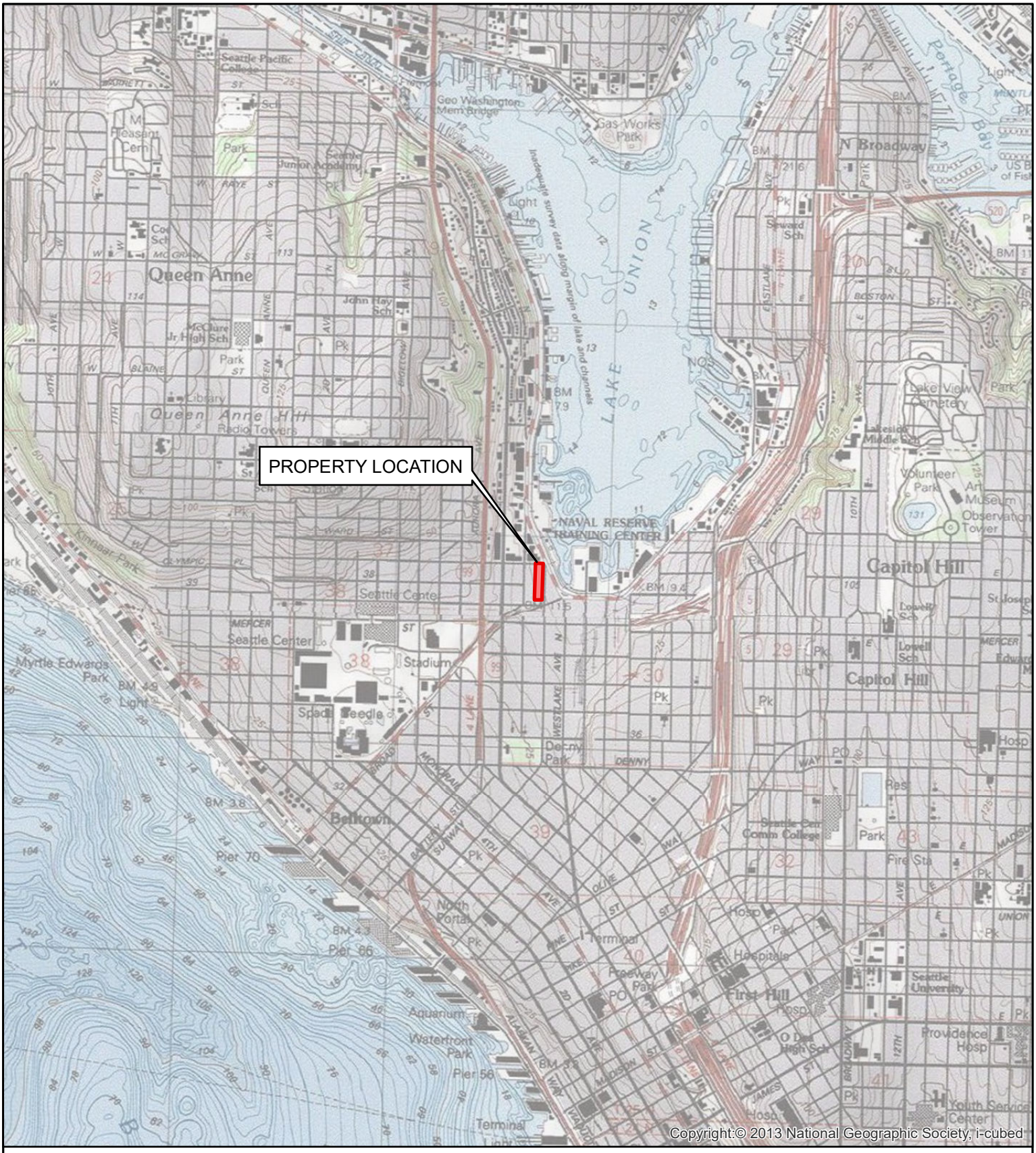
Reliance by third parties is prohibited. This report/assessment has been prepared for the exclusive use of Block 79 LLC to address the unique needs of Block 79 LLC at the Block 79 East Property at a specific point in time.

This is not a general grant of reliance. No one other than Block 79 LLC may rely on this report unless Farallon agrees in advance to such reliance in writing. Any unauthorized use, interpretation, or reliance on this report/assessment is at the sole risk of that party and Farallon will have no liability for such unauthorized use, interpretation, or reliance.

FIGURES

HISTORICAL FEATURE DECOMMISSIONING AND REMOVAL
Block 79 East Property
701, 739, 753 9th Avenue North
Seattle, Washington

Farallon PN: 397-035



REFERENCE: 7.5 MINUTE USGS QUADRANGLE SEATTLE NORTH, WASHINGTON, DATED 1983

N

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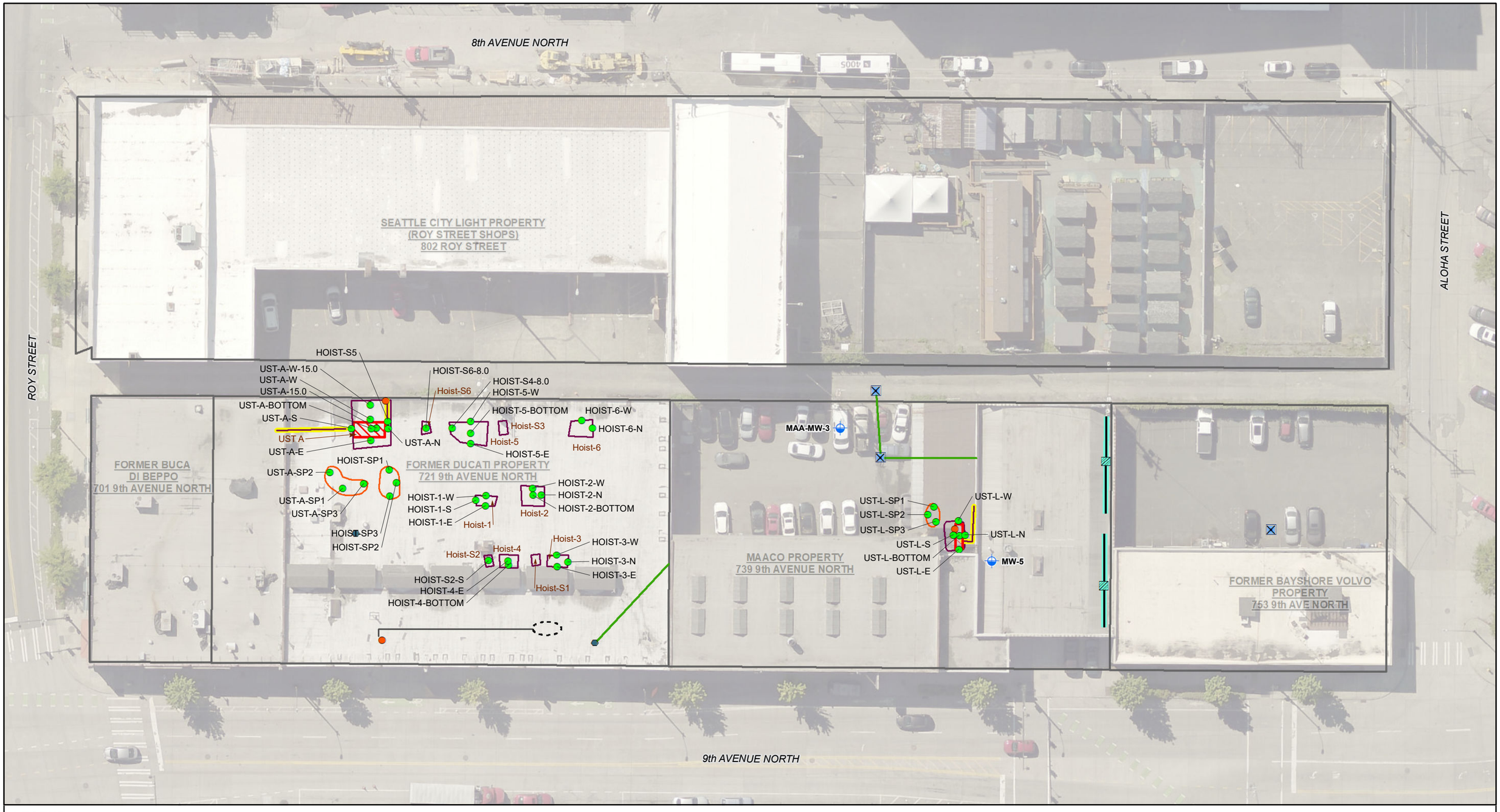
FIGURE 1

PROPERTY VICINITY MAP
BLOCK 79 EAST PROPERTY
SEATTLE, WASHINGTON

FARALLON PN: 397-035

Drawn By: TPerrin | Checked By: EB | Date: 4/28/2021 | Disc Reference: Q:\Projects\397 VULCAN\035 Block79\Mapfiles\014_HDR-WorkPlan\Figure-01_SiteVicinity.mxd



LEGEND

- SOIL SAMPLES (2021)
- DEEP OUTWASH AQUIFER WELL
- CATCH BASIN
- TRENCH GRATE
- FLOOR DRAIN
- SUSPECTED UST FILL PORT
- PIPE TRACE
- CONCRETE GUTTER
- SANITARY SEWER LINE
- SURFACE DEPRESSION
- LINE TRACE
- FORMER OR EXISTING UNDERGROUND STORAGE TANK (UST)
- EXCAVATION EXTENT (2021)
- SOIL STOCKPILE

N

0 40

SCALE IN FEET

NOTES:
1. ALL LOCATIONS ARE APPROXIMATE.
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FIGURE 2

PROPERTY FEATURES
BLOCK 79 EAST PROPERTY
701, 739, AND 753 9th AVENUE NORTH
SEATTLE, WASHINGTON

FARALLON PN: 397-035

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8th AVENUE NORTH

ROY STREET

ALOHA STREET

SEATTLE CITY LIGHT PROPERTY
(ROY STREET SHOPS)
802 ROY STREET

FORMER BUCA
DI BEPPO
701 9th AVENUE NORTH

FORMER DUCATI PROPERTY
721 9th AVENUE NORTH

MAACO PROPERTY
739 9th AVENUE NORTH

FORMER BAYSHORE VOLVO
PROPERTY
753 9th AVE NORTH

9th AVENUE NORTH

UST-A-W
10.0'|<30|92|<6.1

UST-A-W-15.0
15.0'|<30|<61|<6.4

UST A

UST-A-S
10.0'|37|380|<6.1
15.0'|680|**2,200**|<5.7

UST-A-BOTTOM
11.0'|330|**3,900**|<14
15.0'|**2,600**|**25,000**|<20

UST-A-E
10.0'|<30|<60|<6.4
15.0'|1,300|**12,000**|<24

UST-A-N
10.0'|<31|<63|<6.7
15.0'|**3,200**|1,000|<5.9

HOIST-S6-8.0
8.0'|**7,700**|**17,000**|<6.3

HOIST-S4-8.0
8.0'|110|340|<5.8

HOIST-5-W
10.0'|<29|<59|<6.8

HOIST-5-BOTTOM
10.0'|<31|<61|<6.8

HOIST-S6

HOIST-S3

HOIST-5

HOIST-5-E
10.0'|58|130|<6.7

HOIST-6

HOIST-6-W
6.0'|<34|74|<7.9

HOIST-6-N
6.0'|<32|<64|<8.3

MAA-MW-3

HOIST-2-W
7.0'|<31|<61|<6.2

HOIST-2-N
9.0'|<30|150|<7.3

HOIST-2-BOTTOM
10.0'|110|280|<6.7

HOIST-2

HOIST-1

HOIST-1-W
7.0'|150|600|<6.4

HOIST-1-S
7.0'|1,200|**4,000**|<5.4

HOIST-1-E
7.0'|160|490|<6.6

HOIST-S2

HOIST-S1

HOIST-3-W
8.0'|95|250|<6.8

HOIST-3-N
9.0'|280|1,500|<7.7

HOIST-3-E
7.0'|<28|<55|<5.8

HOIST-S2-S
8.5'|<31|170|<6.6

HOIST-4

HOIST-3

HOIST-4-E
8.0'|<30|<60|<7.0

HOIST-4-BOTTOM
9.0'|<30|<60|<7.0

UST-L-W
6.0'|<30|<60|---

UST-L-BOTTOM
7.5'|270|390|---

UST-L-N
6.0'|77|190|---

MW-5

UST-L-S
6.0'|230|540|---

UST-L-E
6.0'|<28|69|---

NOTES:
SOIL RESULTS SHOWN AS:
DEPTH IN FEET BELOW GROUND SURFACE | DRO | ORO | GRO
ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg)

BOLD = CONCENTRATIONS THAT EXCEED MTCA CLEANUP LEVELS
< = ANALYTE NOT DETECTED AT OR EXCEEDING THE REPORTING LIMIT LISTED
--- = SAMPLE WAS NOT ANALYZED
DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS
GRO = TPH AS GASOLINE-RANGE ORGANICS
ORO = TPH AS OIL-RANGE ORGANICS
MTCA = WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION

LEGEND

- SOIL SAMPLES (2021)
- DEEP OUTWASH AQUIFER WELL
- TRENCH GRATE
- PIPE TRACE
- CONCRETE GUTTER
- FORMER OR EXISTING UNDERGROUND STORAGE TANK (UST)
- EXCAVATION EXTENT (2021)

N

0 40
SCALE IN FEET

NOTES:
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FIGURE 3

SOIL SAMPLE RESULTS FOR TPH
BLOCK 79 EAST PROPERTY
701, 739, AND 753 9th AVENUE NORTH
SEATTLE, WASHINGTON

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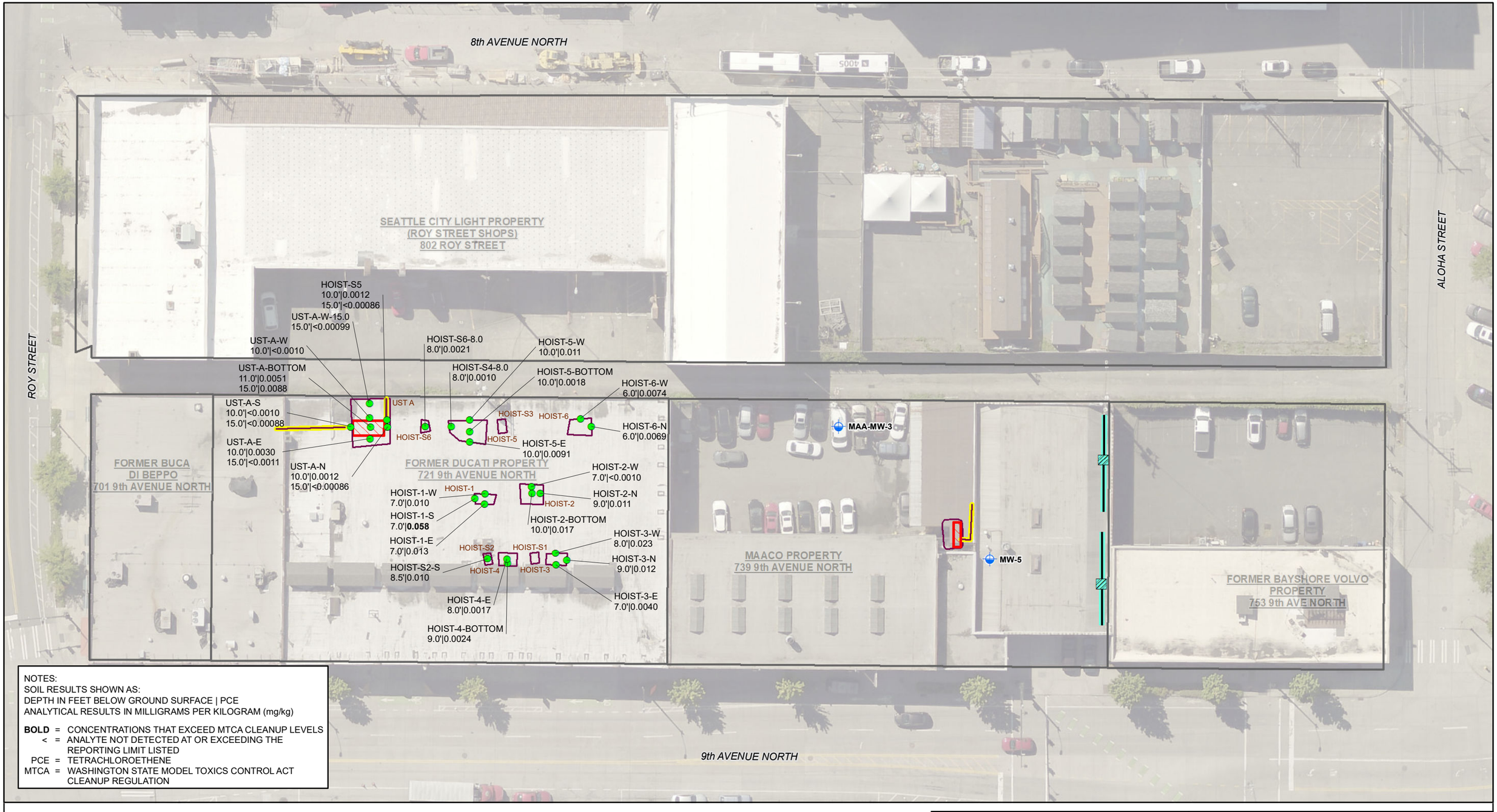

NOTES:
SOIL RESULTS SHOWN AS:
DEPTH IN FEET BELOW GROUND SURFACE | PCE
ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg)

BOLD = CONCENTRATIONS THAT EXCEED MTCA CLEANUP LEVELS
< = ANALYTE NOT DETECTED AT OR EXCEEDING THE REPORTING LIMIT LISTED
PCE = TETRACHLOROETHENE
MTCA = WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION

LEGEND

- SOIL SAMPLES (2021)
- DEEP OUTWASH AQUIFER WELL
- PIPE TRACE
- CONCRETE GUTTER
- FORMER OR EXISTING UNDERGROUND STORAGE TANK (UST)
- EXCAVATION EXTENT (2021)

N

0 40
SCALE IN FEET

NOTES:
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FIGURE 4

SOIL SAMPLE RESULTS FOR PCE
BLOCK 79 EAST PROPERTY
701, 739, AND 753 9th AVENUE NORTH
SEATTLE, WASHINGTON

FARALLON PN: 397-035

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8th AVENUE NORTH

ROY STREET

ALOHA STREET

SEATTLE CITY LIGHT PROPERTY
(ROY STREET SHOPS)
802 ROY STREET

HOIST-S5
10.0'|15|<0.63|0.013
15.0'|11|<0.59|0.035

HOIST-S6-8.0
8.0'|84|<0.61|0.054

HOIST-S4-8.0
8.0'|200|<0.59|0.110

UST-A-W-15.0
15.0'|8.1|<0.61|0.007

HOIST-5-W
10.0'|98|<0.59|**0.13**

UST-A-W
10.0'|180|<0.61|0.045

HOIST-5-BOTTOM
10.0'|110|<0.61|0.007

HOIST-6-W
6.0'|71|<0.68|<0.0069

UST A

UST-A-S
10.0'|12|<0.59|0.035
15.0'|46|<0.60|0.062

HOIST-S3

HOIST-6

HOIST-S6

HOIST-6-N
6.0'|82|<0.64|0.014

UST-A-BOTTOM
11.0'|**1,700**|1.9|0.10
15.0'|**350**|0.83|**0.86**

HOIST-5

HOIST-5-E
10.0'|100|<0.63|0.034

MAA-MW-3

FORMER BUCA
DI BEPPO
701 9th AVENUE NORTH

FORMER DUCATI PROPERTY
721 9th AVENUE NORTH

HOIST-2-W
7.0'|14|<0.61|0.018

UST-A-E
10.0'|45|<0.60|0.015
15.0'|51|<0.64|0.09

HOIST-1

HOIST-2-N
9.0'|57|<0.61|0.040

HOIST-1-W
7.0'|82|<0.62|0.0067

HOIST-2

HOIST-2-BOTTOM
10.0'|90|<0.59|0.100

UST-A-N
10.0'|15|<0.63|0.013
15.0'|11|<0.59|0.035

HOIST-1-S
7.0'|92|<0.54|0.012

HOIST-3-W
8.0'|72|<0.61|**4.4**

HOIST-1-E
7.0'|68|<0.63|0.021

HOIST-S2

HOIST-S1

HOIST-3-N
9.0'|59|<0.61|0.023

MAACO PROPERTY
739 9th AVENUE NORTH

MW-5

HOIST-S2-S
8.5'|140|<0.62|0.086

HOIST-4

HOIST-3

HOIST-3-E
7.0'|<5.5|<0.55|<0.0055

FORMER BAYSHORE VOLVO
PROPERTY
753 9th AVE NORTH

HOIST-4-E
8.0'|6.6|<0.59|<0.0060

HOIST-4-BOTTOM
9.0'|15|<0.60|<0.0060

9th AVENUE NORTH

NOTES:
SOIL RESULTS SHOWN AS:
DEPTH IN FEET BELOW GROUND SURFACE | LEAD | CADMIUM | cPAHs TEC
ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg)

BOLD = CONCENTRATIONS THAT EXCEED MTCA CLEANUP LEVELS
< = ANALYTE NOT DETECTED AT OR EXCEEDING THE REPORTING LIMIT LISTED
cPAH = CARCINOGENIC POLYCYCLIC AROMATIC HYDROCARBON
TEC = TOXIC EQUIVALENT CONCENTRATION
MTCA = WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION

LEGEND

- SAMPLES (2021)
- DEEP OUTWASH AQUIFER WELL
- TRENCH GRATE
- PIPE TRACE
- CONCRETE GUTTER
- FORMER OR EXISTING UNDERGROUND STORAGE TANK (UST)
- EXCAVATION EXTENT (2021)

N

0 40
SCALE IN FEET

NOTES:
1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

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FIGURE 5

SOIL SAMPLE RESULTS FOR METALS AND cPAHs
BLOCK 79 EAST PROPERTY
701, 739, AND 753 9th AVENUE NORTH
SEATTLE, WASHINGTON

FARALLON PN: 397-035

Drawn By: TPerrin | Checked By: EB | Date: 4/28/2021 | Disc Reference: Q:\Projects\397 VULCAN\035 Block79\Mapfiles\014_HDR-WorkPlan\Figure-05_SitePlan_cPAH.mxd

TABLES

HISTORICAL FEATURE DECOMMISSIONING AND REMOVAL
Block 79 East Property
701, 739, 753 9th Avenue North
Seattle, Washington

Farallon PN: 397-035

Table 1
Soil Analytical Results for TPH and BTEX
Block 79 East Property
Seattle, Washington
Farallon PN: 397-035

Excavation Area	Sample Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Analytical Results (milligrams per kilogram)									
					NWTPH-HCID[2]			NWTPH-Dx[3]		NWTPH-Gx[4]	EPA Method 8260D[5]			
					DRO	ORO	GRO	DRO	ORO	GRO	Benzene	Toluene	Ethylbenzene	Xylenes
Product Samples														
Hoist 3	Hoist 3-Line	HOIST 3-LINE	NA	3/8/2021	Detected	Detected	ND < 9,700	**340,000**	**950,000**	**910** O	< 2.4	**69**	3.7	**23.9**
Hoist 4	Hoist 4-Line	HOIST 4-LINE	NA	3/8/2021	Detected	Detected	ND < 9,600	**650,000**	**600,000**	**880** O	< 2.2	< 11	3.9	**24.2**
UST-A	UST-A-Product	UST-A-PRODUCT	NA	3/8/2021	---	---	---	**63,000** N	**530,000**	**870** O	< 2.3	< 12	< 2.3	< 6.9
UST-L	UST-L-Fill	UST-L-FILL	NA	3/9/2021	---	---	---	**63,000**	< 2,500	---	---	---	---	---
Excavation Samples														
Hoist 1	Hoist-1-E	HOIST-1-E	7.0	3/12/2021	---	---	---	160 N	490	< 6.6	< 0.0011	< 0.0054	< 0.0011	< 0.0033
	Hoist-1-S	HOIST-1-S	7.0	3/12/2021	---	---	---	1,200 N	**4,000**	< 5.4	< 0.00099	< 0.0049	< 0.00099	< 0.00299
	Hoist-1-W	HOIST-1-W	7.0	3/12/2021	---	---	---	150 N	600	< 6.4	< 0.00097	< 0.0049	< 0.00097	< 0.00287
Hoist 2	Hoist-2-N	HOIST-2-N	9.0	3/11/2021	---	---	---	< 30	150	< 7.3	< 0.0012	< 0.0059	< 0.0012	< 0.0036
	Hoist-2-W	HOIST-2-W	7.0	3/11/2021	---	---	---	< 31	< 61	< 6.2	< 0.0010	< 0.0050	< 0.0010	< 0.0030
	Hoist-2-Bottom	HOIST-2-BOTTOM	10.0	3/11/2021	---	---	---	110	280	< 6.7	< 0.0013	< 0.0064	< 0.0013	< 0.0039
Hoist 3	Hoist-3-N	HOIST-3-N	9.0	3/12/2021	---	---	---	280 N	1,500	< 7.7	< 0.00099	< 0.0049	< 0.00099	0.0011
	Hoist-3-E	HOIST-3-E	7.0	3/12/2021	---	---	---	< 28	< 55	< 5.8	< 0.00096	< 0.0048	< 0.00096	< 0.00286
	Hoist-3-W	HOIST-3-W	8.0	3/12/2021	---	---	---	95 N	250	< 6.8	< 0.0012	0.0087	< 0.0012	0.0027
Hoist 4	Hoist-4-E	HOIST-4-E	8.0	3/11/2021	---	---	---	< 30	< 60	< 7.0	< 0.0012	< 0.0059	< 0.0012	< 0.0035
	Hoist-4-Bottom	HOIST-4-BOTTOM	9.0	3/11/2021	---	---	---	< 30	< 60	< 7.0	< 0.0010	< 0.0051	< 0.0010	< 0.0030
Hoist 5	Hoist-5-E	HOIST-5-E	10.0	3/10/2021	---	---	---	58	130	< 6.7	< 0.0013	< 0.0067	< 0.0013	0.0036
	Hoist-5-W	HOIST-5-W	10.0	3/10/2021	---	---	---	< 29	< 59	< 6.8	< 0.0015	< 0.0077	< 0.0015	< 0.0046
	Hoist-5-Bottom	HOIST-5-BOTTOM	10.0	3/10/2021	---	---	---	< 31	< 61	< 6.8	< 0.0011	< 0.0057	< 0.0011	< 0.0034
Hoist 6	Hoist-6-N	HOIST-6-N	6.0	3/12/2021	---	---	---	< 32	< 64	< 8.3	< 0.0013	< 0.0065	< 0.0013	< 0.0039
	Hoist-6-W	HOIST-6-W	6.0	3/12/2021	---	---	---	< 34	74	< 7.9	< 0.0013	< 0.0066	< 0.0013	< 0.0039
Hoist S2	Hoist-S2-S	HOIST-S2-S	8.5	3/11/2021	---	---	---	< 31	170	< 6.6	< 0.0011	< 0.0053	< 0.0011	< 0.0032
Hoist S4	Hoist-S4-8.0	HOIST-S4-8.0	8.0	3/15/2021	---	---	---	110 N	340	< 5.8	< 0.00096	< 0.0048	< 0.00096	< 0.00286
Hoist S6	Hoist-S6-8.0	HOIST-S6-8.0	8.0	3/15/2021	---	---	---	**7,700** J	**17,000** J	< 6.3	< 0.0010	< 0.0051	< 0.0010	< 0.0031
UST-A	UST-A-Top	UST-A-TOP	NA	3/8/2021	---	---	---	**11,000** N	**73,000**	< 19	< 0.11	< 0.56	< 0.11	< 0.33
	UST-A-N	UST-A-N	10.0	3/10/2021	---	---	---	< 31	< 63	< 6.7	< 0.0011	< 0.0054	< 0.0011	< 0.0033
		UST-A-N-15.0	15.0	3/15/2021	---	---	---	**3,200**	1,000	< 5.9	< 0.00086	< 0.0043	< 0.00086	< 0.00256
	UST-A-E	UST-A-E	10.0	3/10/2021	---	---	---	< 30	< 60	< 6.4	< 0.0011	< 0.0056	< 0.0011	< 0.0033
		UST-A-E-15.0	15.0	3/15/2021	---	---	---	1,300 N	**12,000**	< 24	< 0.0011	< 0.0054	< 0.0011	0.0012
	UST-A-S	UST-A-S	10.0	3/10/2021	---	---	---	37 N	380	< 6.1	< 0.0010	< 0.0052	< 0.0010	< 0.0031
		UST-A-S-15.0	15.0	3/15/2021	---	---	---	680 N	**2,200**	< 5.7	< 0.00088	< 0.0044	< 0.00088	< 0.00268
	UST-A-W	UST-A-W	10.0	3/10/2021	---	---	---	< 30	92	< 6.1	< 0.0010	< 0.0052	< 0.0010	< 0.0031
	UST-A-W-15.0	UST-A-W-15.0	15.0	3/15/2021	---	---	---	< 30	< 61	< 6.4	< 0.00099	< 0.0050	< 0.00099	< 0.00299
	UST-A-Bottom	UST-A-BOTTOM	11.0	3/10/2021	---	---	---	330 N	**3,900**	< 14	< 0.0027	< 0.013	< 0.0027	< 0.0080
		UST-A-15.0	15.0	3/12/2021	Detected	Detected	ND < 28	**2,600** N	**25,000**	< 20	< 0.0017	< 0.0085	< 0.0017	0.0057
MTCA Method A Cleanup Levels for Soil[6]					**2,000**	**2,000**	**30/100[7]**	**2,000**	**2,000**	**30/100[6]**	**0.03**	**7**	**6**	**9**

Table 1
Soil Analytical Results for TPH and BTEX
Block 79 East Property
Seattle, Washington
Farallon PN: 397-035

Excavation Area	Sample Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Analytical Results (milligrams per kilogram)									
					NWTPH-HCID[2]			NWTPH-Dx[3]		NWTPH-Gx[4]	EPA Method 8260D[5]			
					DRO	ORO	GRO	DRO	ORO	GRO	Benzene	Toluene	Ethylbenzene	Xylenes
UST-L	UST-L-N	UST-L-N	6.0	3/9/2021	---	---	---	77	190	---	---	---	---	---
	UST-L-E	UST-L-E	6.0	3/9/2021	---	---	---	< 28	69	---	---	---	---	---
	UST-L-S	UST-L-S	6.0	3/9/2021	---	---	---	230	540	---	---	---	---	---
	UST-L-W	UST-L-W	6.0	3/9/2021	---	---	---	< 30	< 60	---	---	---	---	---
	UST-L-Bottom	UST-L-BOTTOM	7.5	3/9/2021	---	---	---	270	390	---	---	---	---	---
Stockpile Samples														
Hoist Spoils	Hoist-SP1	HOIST-SP1	NA	3/15/2021	---	---	---	< 29	180	< 6.7	< 0.00099	< 0.0050	0.0011	0.0057
	Hoist-SP2	HOIST-SP2	NA	3/15/2021	---	---	---	40 N	230	< 6.4	< 0.0011	< 0.0053	< 0.0011	0.0014
	Hoist-SP3	HOIST-SP3	NA	3/15/2021	---	---	---	54 N	290	< 6.8	< 0.0010	< 0.0050	< 0.0010	0.0011
UST-A	UST-A-SP1	UST-A-SP1	2.0	3/11/2021	---	---	---	850 N	**7,300**	< 7.4	< 0.0013	< 0.0063	< 0.0013	0.0097
	UST-A-SP2	UST-A-SP2	2.0	3/11/2021	---	---	---	100 N	780	< 8.6	< 0.0014	< 0.0068	< 0.0014	< 0.0041
	UST-A-SP3	UST-A-SP3	1.0	3/11/2021	---	---	---	< 30	100	< 6.7	< 0.0010	< 0.0052	< 0.0010	< 0.0031
UST-L	UST-L-SP1	UST-L-SP1	NA	3/9/2021	---	---	---	150	230	---	---	---	---	---
	UST-L-SP2	UST-L-SP2	NA	3/9/2021	---	---	---	33 N	85	---	---	---	---	---
	UST-L-SP3	UST-L-SP3	NA	3/9/2021	---	---	---	41 N	140	---	---	---	---	---
MTCA Method A Cleanup Levels for Soil[6]					**2,000**	**2,000**	**30/100[7]**	**2,000**	**2,000**	**30/100[6]**	**0.03**	**7**	**6**	**9**

NOTES:

Results in **bold** and highlighted yellow denote concentrations exceeding applicable cleanup levels.
< denotes analyte not detected at or exceeding the laboratory reporting limit listed.
— denotes sample not analyzed.

[1]Depth in feet below ground surface.
[2]Analyzed by Northwest Method NWTPH-HCID (Hydrocarbon Identification).
[3]Analyzed by Northwest Method NWTPH-Dx.
[4]Analyzed by Northwest Method NWTPH-Gx.
[5]Analyzed by U.S. Environmental Protection Agency Method 8260D.
[6]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.
[7]Cleanup level is 30 milligrams per kilogram if benzene is detected and 100 milligrams per kilogram if benzene is not detected.

BTEX = benzene, toluene, ethylbenzene, and xylenes
DRO = total petroleum hydrocarbons (TPH) as diesel-range organics
EPA = U.S. Environmental Protection Agency
GRO = TPH as gasoline-range organics
J = result is an estimate
N = hydrocarbons in the oil-range are impacting the diesel-range result
NA = not applicable
ND = not detected
O = hydrocarbons indicative of heavier fuels are present in the sample and impacting the gasoline result
ORO = TPH as oil-range organics

Table 2
Soil Analytical Results for VOCs
Block 79 East Property
Seattle, Washington
Farallon PN: 397-035

Excavation Area	Sample Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Analytical Results (milligrams per kilogram)[2]						
					PCE	TCE	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
Product Samples											
Hoist 3	Hoist 3-Line	HOIST 3-LINE	NA	3/8/2021	**6.7**	< 2.4	< 2.4	< 2.4	< 2.4	3.0	< 2.4
Hoist 4	Hoist 4-Line	HOIST 4-LINE	NA	3/8/2021	**12**	< 2.2	< 2.2	< 2.2	< 2.2	15	4.2
UST-A	UST-A-Product	UST-A-PRODUCT	NA	3/8/2021	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	---	---
Excavation Samples											
Hoist 1	Hoist-1-E	HOIST-1-E	7.0	3/12/2021	0.013	< 0.0011	< 0.0011	< 0.0011	< 0.0011	---	---
	Hoist-1-S	HOIST-1-S	7.0	3/12/2021	**0.058**	< 0.00099	< 0.00099	< 0.00099	< 0.00099	---	---
	Hoist-1-W	HOIST-1-W	7.0	3/12/2021	0.010	< 0.00097	< 0.00097	< 0.00097	< 0.00097	---	---
Hoist 2	Hoist-2-N	HOIST-2-N	9.0	3/11/2021	0.011	< 0.0012	< 0.0012	< 0.0012	< 0.0015	---	---
	Hoist-2-W	HOIST-2-W	7.0	3/11/2021	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0013	---	---
	Hoist-2-Bottom	HOIST-2-BOTTOM	10.0	3/11/2021	0.017	< 0.0013	< 0.0013	< 0.0013	< 0.0017	---	---
Hoist 3	Hoist-3-N	HOIST-3-N	9.0	3/12/2021	0.012	< 0.00099	< 0.00099	< 0.00099	< 0.00099	---	---
	Hoist-3-E	HOIST-3-E	7.0	3/12/2021	0.0040	< 0.00096	< 0.00096	< 0.00096	< 0.00096	---	---
	Hoist-3-W	HOIST-3-W	8.0	3/12/2021	0.023	< 0.0012	< 0.0012	< 0.0012	< 0.0012	---	---
Hoist 4	Hoist-4-E	HOIST-4-E	8.0	3/11/2021	0.0017	< 0.0012	< 0.0012	< 0.0012	< 0.0015	---	---
	Hoist-4-Bottom	HOIST-4-BOTTOM	9.0	3/11/2021	0.0024	< 0.0010	< 0.0010	< 0.0010	< 0.0013	---	---
Hoist 5	Hoist-5-E	HOIST-5-E	10.0	3/10/2021	0.0091	< 0.0013	< 0.0013	< 0.0013	< 0.0017	---	---
	Hoist-5-W	HOIST-5-W	10.0	3/10/2021	0.011	< 0.0015	< 0.0015	< 0.0015	< 0.0020	---	---
	Hoist-5-Bottom	HOIST-5-BOTTOM	10.0	3/10/2021	0.0018	< 0.0011	< 0.0011	< 0.0011	< 0.0015	---	---
Hoist 6	Hoist-6-N	HOIST-6-N	6.0	3/12/2021	0.0069	< 0.0013	< 0.0013	< 0.0013	< 0.0013	---	---
	Hoist-6-W	HOIST-6-W	6.0	3/12/2021	0.0074	< 0.0013	< 0.0013	< 0.0013	< 0.0013	---	---
Hoist S2	Hoist-S2-S	HOIST-S2-S	8.5	3/11/2021	0.010	< 0.0011	< 0.0011	< 0.0011	< 0.0014	---	---
Hoist S4	Hoist-S4-8.0	HOIST-S4-8.0	8.0	3/15/2021	0.0010	< 0.00096	< 0.00096	< 0.00096	< 0.00096	---	---
Hoist S6	Hoist-S6-8.0	HOIST-S6-8.0	8.0	3/15/2021	0.0021	< 0.0010	< 0.0010	< 0.0010	< 0.0010	---	---
UST-A	UST-A-Top	UST-A-TOP	NA	3/8/2021	**0.40**	< 0.11	< 0.11	< 0.11	< 0.11	---	---
	UST-A-N	UST-A-N	10.0	3/10/2021	0.0012	< 0.0011	< 0.0011	< 0.0011	< 0.0011	---	---
		UST-A-N-15.0	15.0	3/15/2021	< 0.00086	< 0.00086	< 0.00086	< 0.00086	< 0.00086	---	---
	UST-A-E	UST-A-E	10.0	3/10/2021	0.0030	< 0.0011	< 0.0011	< 0.0011	< 0.0011	---	---
		UST-A-E-15.0	15.0	3/15/2021	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	---	---
	UST-A-S	UST-A-S	10.0	3/10/2021	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	---	---
		UST-A-S-15.0	15.0	3/15/2021	< 0.00088	< 0.00088	< 0.00088	< 0.00088	< 0.00088	---	---
	UST-A-W	UST-A-W	10.0	3/10/2021	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	---	---
	UST-A-W-15.0	UST-A-W-15.0	15.0	3/15/2021	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099	---	---
	UST-A-Bottom	UST-A-BOTTOM	11.0	3/10/2021	0.0051	< 0.0027	< 0.0027	< 0.0027	< 0.0027	---	---
		UST-A-15.0	15.0	3/12/2021	0.0088	< 0.0017	< 0.0017	< 0.0017	< 0.0017	---	---
MTCA Cleanup Levels for Soil[3]					**0.05**	**0.03**	**160[4]**	**1,600[4]**	**0.67[4]**	**800[4]**	**800[4]**

Table 2
Soil Analytical Results for VOCs
Block 79 East Property
Seattle, Washington
Farallon PN: 397-035

Excavation Area	Sample Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Analytical Results (milligrams per kilogram)[2]						
					PCE	TCE	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
Stockpile Samples											
Hoist Spoils	Hoist-SP1	HOIST-SP1	NA	3/15/2021	0.0012	< 0.00099	< 0.00099	< 0.00099	< 0.00099	---	---
	Hoist-SP2	HOIST-SP2	NA	3/15/2021	0.0015	< 0.0011	< 0.0011	< 0.0011	< 0.0011	---	---
	Hoist-SP3	HOIST-SP3	NA	3/15/2021	0.012	< 0.0010	< 0.0010	< 0.0010	< 0.0010	---	---
UST-A	UST-A-SP1	UST-A-SP1	2.0	3/11/2021	0.015	< 0.0013	< 0.0013	< 0.0013	< 0.0016	---	---
	UST-A-SP2	UST-A-SP2	2.0	3/11/2021	0.0065	< 0.0014	< 0.0014	< 0.0014	< 0.0018	---	---
	UST-A-SP3	UST-A-SP3	1.0	3/11/2021	0.0012	< 0.0010	< 0.0010	< 0.0010	< 0.0013	---	---
MTCA Cleanup Levels for Soil[3]					**0.05**	**0.03**	**160[4]**	**1,600[4]**	**0.67[4]**	**800[4]**	**800[4]**

NOTES:

Results in **bold** and highlighted yellow denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the reporting limit listed.

[1]Depth in feet below ground surface.

[2]Analyzed by U.S. Environmental Protection Agency Method 8260D. Only detected and select VOCs shown in table; see laboratory report for full list of analytes.

[3]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013, unless otherwise noted.

[4]Washington State Cleanup Levels and Risk Calculations (CLARC) under Washington State MTCA, Standard Method B Formula Values for Soil from CLARC Master spreadsheet, https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Contamination-clean-up-tools/CLARC

NA = not applicable
PCE = tetrachloroethene
TCE = trichloroethene
VOC = volatile organic compound

Table 3
Soil Analytical Results for Metals
Block 79 East Property
Seattle, Washington
Farallon PN: 397-035

Excavation Area	Sample Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Analytical Results (milligrams per kilogram)[2]								TCLP Analytical Results (milligrams per liter)[2]	
					Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Chromium	Lead
Product Samples														
Hoist 3	Hoist 3-Line	HOIST 3-LINE	NA	3/8/2021	< 10	< 2.5	< 0.50	< 0.50	30	< 0.25	< 10	< 1.0	---	---
Hoist 4	Hoist 4-Line	HOIST 4-LINE	NA	3/8/2021	< 10	< 2.5	< 0.50	< 0.50	13	< 0.25	< 10	< 1.0	---	---
UST-A	UST-A-Product	UST-A-PRODUCT	NA	3/8/2021	< 10	7.9	0.55	2.4	81	< 0.25	< 10	< 1.0	---	---
Excavation Samples														
Hoist 1	Hoist-1-E	HOIST-1-E	7.0	3/12/2021	< 13	140	< 0.63	36	68	< 0.31	< 13	< 1.3	---	---
	Hoist-1-S	HOIST-1-S	7.0	3/12/2021	< 11	130	< 0.54	31	92	< 0.27	< 11	< 1.1	---	---
	Hoist-1-W	HOIST-1-W	7.0	3/12/2021	< 12	200	< 0.62	35	82	< 0.31	< 12	< 1.2	---	---
Hoist 2	Hoist-2-N	HOIST-2-N	9.0	3/11/2021	< 12	140	< 0.61	30	57	< 0.30	< 12	< 1.2	---	---
	Hoist-2-W	HOIST-2-W	7.0	3/11/2021	< 12	140	< 0.61	48	14	< 0.31	< 12	< 1.2	---	---
	Hoist-2-Bottom	HOIST-2-BOTTOM	10.0	3/11/2021	< 12	150	< 0.59	35	90	< 0.30	< 12	< 1.2	---	---
Hoist 3	Hoist-3-N	HOIST-3-N	9.0	3/12/2021	< 12	65	< 0.61	29	59	0.53	< 12	< 1.2	---	---
	Hoist-3-E	HOIST-3-E	7.0	3/12/2021	< 11	21	< 0.55	19	< 5.5	< 0.27	< 11	< 1.1	---	---
	Hoist-3-W	HOIST-3-W	8.0	3/12/2021	< 12	120	< 0.61	37	72	< 0.31	< 12	< 1.2	---	---
Hoist 4	Hoist-4-E	HOIST-4-E	8.0	3/11/2021	< 12	57	< 0.59	23	6.6	< 0.30	< 12	< 1.2	---	---
	Hoist-4-Bottom	HOIST-4-BOTTOM	9.0	3/11/2021	< 12	87	< 0.60	40	15	< 0.30	< 12	< 1.2	---	---
Hoist 5	Hoist-5-E	HOIST-5-E	10.0	3/10/2021	< 13	200	< 0.63	37	100	1.1	< 13	< 1.3	---	---
	Hoist-5-W	HOIST-5-W	10.0	3/10/2021	< 12	140	< 0.59	29	98	< 0.29	< 12	< 1.2	---	---
	Hoist-5-Bottom	HOIST-5-BOTTOM	10.0	3/10/2021	< 12	280	< 0.61	35	110	< 0.31	< 12	< 1.2	---	---
Hoist 6	Hoist-6-N	HOIST-6-N	6.0	3/12/2021	< 13	150	< 0.64	39	82	< 0.32	< 13	< 1.3	---	---
	Hoist-6-W	HOIST-6-W	6.0	3/12/2021	< 14	200	< 0.68	46	71	< 0.34	< 14	< 1.4	---	---
Hoist S2	Hoist-S2-S	HOIST-S2-S	8.5	3/11/2021	< 12	150	< 0.62	41	140	< 0.31	< 12	< 1.2	---	---
Hoist S4	Hoist-S4-8.0	HOIST-S4-8.0	8.0	3/15/2021	< 12	180	< 0.59	56	200	0.69	< 12	< 1.2	---	---
Hoist S6	Hoist-S6-8.0	HOIST-S6-8.0	8.0	3/15/2021	< 12	170	< 0.61	34	84	0.41	< 12	< 1.2	---	---
UST-A	UST-A-Top	UST-A-TOP	NA	3/8/2021	< 15	86	**2.1**	21	**470**	0.39	< 15	< 1.5	---	---
	UST-A-N	UST-A-N	10.0	3/10/2021	< 13	120	< 0.63	38	15	0.22 J	< 13	< 1.3	---	---
		UST-A-N-15.0	15.0	3/15/2021	< 12	88	< 0.59	25	11	< 0.29	< 12	< 1.2	---	---
	UST-A-E	UST-A-E	10.0	3/10/2021	< 12	88	< 0.60	50	45	< 0.12	< 12	< 1.2	---	---
		UST-A-E-15.0	15.0	3/15/2021	< 13	210	< 0.64	29	51	0.87	< 13	< 1.3	---	---
	UST-A-S	UST-A-S	10.0	3/10/2021	< 12	110	< 0.59	44	12	< 0.12	< 12	< 1.2	---	---
		UST-A-S-15.0	15.0	3/15/2021	< 12	120	< 0.60	29	46	< 0.30	< 12	< 1.2	---	---
	UST-A-W	UST-A-W	10.0	3/10/2021	< 12	330	< 0.61	36	180	0.26	< 12	< 1.2	---	---
	UST-A-W-15.0	UST-A-W-15.0	15.0	3/15/2021	< 12	67	< 0.61	30	8.1	< 0.30	< 12	< 1.2	---	---
	UST-A-Bottom	UST-A-BOTTOM	11.0	3/10/2021	< 17	1,400	1.9	170	**1,700**	0.38	< 17	< 1.7	< 0.020	**25**
		UST-A-15.0	15.0	3/12/2021	< 14	540	0.83	27	**350**	2.7	< 14	< 1.4	---	---
MTCA Cleanup Levels for Soil[3]					**20**	**16,000[4]**	**2**	**2,000**	**250**	**2**	**400[4]**	**400[4]**	**5.0[5]**	**5.0[5]**

Table 3
Soil Analytical Results for Metals
Block 79 East Property
Seattle, Washington
Farallon PN: 397-035

Excavation Area	Sample Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Analytical Results (milligrams per kilogram)[2]								TCLP Analytical Results (milligrams per liter)[2]	
					Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Chromium	Lead
Stockpile Samples														
Hoist Spoils	Hoist-SP1	HOIST-SP1	NA	3/15/2021	< 12	81	< 0.58	46	19	< 0.29	< 12	< 1.2	---	---
	Hoist-SP2	HOIST-SP2	NA	3/15/2021	< 12	130	< 0.61	47	24	< 0.31	< 12	< 1.2	---	---
	Hoist-SP3	HOIST-SP3	NA	3/15/2021	< 12	100	< 0.60	35	60	< 0.30	< 12	< 1.2	---	---
UST-A	UST-A-SP1	UST-A-SP1	2.0	3/11/2021	< 13	410	0.64	44	**550**	0.97	< 13	1.8	---	---
	UST-A-SP2	UST-A-SP2	2.0	3/11/2021	< 13	530	2.0	400	**1,200**	1.5	< 13	< 1.3	---	---
	UST-A-SP3	UST-A-SP3	1.0	3/11/2021	15	170	< 0.60	31	86	0.40	< 12	< 1.2	---	---
MTCA Cleanup Levels for Soil[3]					**20**	**16,000[4]**	**2**	**2,000**	**250**	**2**	**400[4]**	**400[4]**	**5.0[5]**	**5.0[5]**

NOTES:

Results in **bold** and highlighted yellow denote concentrations exceeding applicable cleanup levels.
< denotes analyte not detected at or exceeding the laboratory reporting limit listed.
— not analyzed.
J = result is an estimate
NA = not applicable
TCLP = Toxicity Characteristic Leaching Procedure

[1]Depth in feet below ground surface.
[2]Analyzed by U.S. Environmental Protection Agency Methods (EPA) 6010D/7471B. TCLP sample prepared by EPA Method 1311 and analyzed by EPA Method 6010D.
[3]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as amended 2013 unless otherwise noted.
[4]Washington State Cleanup Levels and Risk Calculations under the Washington State MTCA, Standard Method B Formula Values for Soil from CLARC Master spreadsheet, https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Contamination-clean-up-tools/CLARC
[5]Table 1 - Maximum Concentration of Contaminants for the Toxicity Characteristic, Title 40 Code of Federal Regulations (CFR) Part 261.24.

Table 4
Soil Analytical Results for cPAHs
Block 79 East Property
Seattle, Washington
Farallon PN: 397-035

Excavation Area	Sample Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Analytical Results (milligrams per kilogram)[2]							Total cPAHs TEC[3,4]
					Benzo(a)Pyrene	Benzo(a)Anthracene	Benzo(b)Fluoranthene	Benzo(j,k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Indeno(1,2,3-cd)Pyrene	
Product Samples												
Hoist 3	Hoist 3-Line	HOIST 3-LINE	NA	3/8/2021	< 3.7	< 3.7	< 3.7	< 3.7	6.7	< 3.7	< 3.7	**2.8**
Hoist 4	Hoist 4-Line	HOIST 4-LINE	NA	3/8/2021	< 3.7	< 3.7	< 3.7	< 3.7	22	< 3.7	< 3.7	**3.0**
UST-A	UST-A-Product	UST-A-PRODUCT	NA	3/8/2021	20	32	19	4.1	21	< 4.0	10	**27**
Excavation Samples												
Hoist 1	Hoist-1-E	HOIST-1-E	7.0	3/12/2021	0.016	0.013	0.020	< 0.0084	0.019	< 0.0084	0.011	0.021
	Hoist-1-S	HOIST-1-S	7.0	3/12/2021	0.0080	0.0093	0.012	< 0.0072	0.012	< 0.0072	0.011	0.012
	Hoist-1-W	HOIST-1-W	7.0	3/12/2021	< 0.0082	< 0.0082	0.0086	< 0.0082	0.0088	< 0.0082	< 0.0082	0.0067
Hoist 2	Hoist-2-N	HOIST-2-N	9.0	3/11/2021	0.030	0.026	0.035	0.012	0.032	< 0.0081	0.022	0.040
	Hoist-2-W	HOIST-2-W	7.0	3/11/2021	0.014	0.015	0.016	< 0.0082	0.016	< 0.0082	< 0.0082	0.018
	Hoist-2-Bottom	HOIST-2-BOTTOM	10.0	3/11/2021	0.076	0.079	0.087	0.025	0.077	0.0080	0.051	0.100
Hoist 3	Hoist-3-N	HOIST-3-N	9.0	3/12/2021	0.017	0.015	0.021	< 0.0081	0.019	< 0.0081	0.015	0.023
	Hoist-3-E	HOIST-3-E	7.0	3/12/2021	< 0.0073	< 0.0073	< 0.0073	< 0.0073	< 0.0073	< 0.0073	< 0.0073	< 0.0055
	Hoist-3-W	HOIST-3-W	8.0	3/12/2021	3.3	3.6	3.8	1.2	3.0	0.34	1.9	**4.4**
Hoist 4	Hoist-4-E	HOIST-4-E	8.0	3/11/2021	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0060
	Hoist-4-Bottom	HOIST-4-BOTTOM	9.0	3/11/2021	< 0.0080	< 0.0080	< 0.0080	< 0.0080	< 0.0080	< 0.0080	< 0.0080	< 0.0060
Hoist 5	Hoist-5-E	HOIST-5-E	10.0	3/10/2021	0.025	0.024	0.031	0.0085	0.024	< 0.0084	0.019	0.034
	Hoist-5-W	HOIST-5-W	10.0	3/10/2021	0.095	0.089	0.12	0.033	0.076	0.010	0.068	**0.13**
	Hoist-5-Bottom	HOIST-5-BOTTOM	10.0	3/10/2021	< 0.0081	< 0.0081	0.011	< 0.0081	0.012	< 0.0081	< 0.0081	0.007
Hoist 6	Hoist-6-N	HOIST-6-N	6.0	3/12/2021	0.0096	0.0090	0.014	< 0.0086	0.010	< 0.0086	0.0092	0.014
	Hoist-6-W	HOIST-6-W	6.0	3/12/2021	< 0.0091	< 0.0091	< 0.0091	< 0.0091	< 0.0091	< 0.0091	< 0.0091	< 0.0069
Hoist S2	Hoist-S2-S	HOIST-S2-S	8.5	3/11/2021	0.063	0.056	0.080	0.024	0.058	0.0089	0.051	0.086
Hoist S4	Hoist-S4-8.0	HOIST-S4-8.0	8.0	3/15/2021	0.085	0.074	0.094	0.022	0.083	0.010	0.054	**0.110**
Hoist S6	Hoist-S6-8.0	HOIST-S6-8.0	8.0	3/15/2021	0.040	0.039	0.052	0.013	0.042	< 0.0081	0.025	0.054
MTCA Method A Cleanup Level for Soil[5]												**0.1**

Table 4
Soil Analytical Results for cPAHs
Block 79 East Property
Seattle, Washington
Farallon PN: 397-035

Excavation Area	Sample Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Analytical Results (milligrams per kilogram)[2]							Total cPAHs TEC[3,4]
					Benzo(a)Pyrene	Benzo(a)Anthracene	Benzo(b)Fluoranthene	Benzo(j,k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Indeno(1,2,3-cd)Pyrene	
UST-A	UST-A-Top	UST-A-TOP	NA	3/8/2021	1.6	< 0.20	0.99	< 0.20	0.27	< 0.20	1.5	**1.9**
	UST-A-N	UST-A-N	10.0	3/10/2021	0.0097	0.0085	0.012	< 0.0084	0.0090	< 0.0084	< 0.0084	0.013
		UST-A-N-15.0	15.0	3/15/2021	0.024	0.040	0.036	0.012	0.041	< 0.0078	0.015	0.035
	UST-A-E	UST-A-E	10.0	3/10/2021	0.011	0.0082	0.013	< 0.0080	0.0092	< 0.0080	0.0086	0.015
		UST-A-E-15.0	15.0	3/15/2021	0.057	0.13	0.078	< 0.043	0.15	< 0.043	< 0.043	0.09
	UST-A-S	UST-A-S	10.0	3/10/2021	0.027	0.028	0.023	0.0080	0.023	< 0.0079	0.014	0.035
		UST-A-S-15.0	15.0	3/15/2021	0.043	0.097	0.059	< 0.0080	0.040	< 0.0080	0.020	0.062
	UST-A-W	UST-A-W	10.0	3/10/2021	0.033	0.027	0.043	0.012	0.029	< 0.0081	0.030	0.045
	UST-A-W-15.0	UST-A-W-15.0	15.0	3/15/2021	< 0.0081	< 0.0081	0.013	< 0.0081	< 0.0081	< 0.0081	< 0.0081	0.007
	UST-A-Bottom	UST-A-BOTTOM	11.0	3/10/2021	0.069	0.097	0.10	< 0.057	0.10	< 0.057	0.076	0.10
		UST-A-15.0	15.0	3/12/2021	0.62	0.96	0.68	0.24	0.58	< 0.094	0.38	**0.86**
Stockpile Samples												
Hoist Spoils	Hoist-SP1	HOIST-SP1	NA	3/15/2021	0.015	0.014	0.017	< 0.0077	0.020	< 0.0077	0.0097	0.02
	Hoist-SP2	HOIST-SP2	NA	3/15/2021	0.018	0.015	0.024	< 0.0081	0.021	< 0.0081	0.016	0.03
	Hoist-SP3	HOIST-SP3	NA	3/15/2021	0.056	0.057	0.069	0.024	0.065	< 0.0080	0.039	0.076
UST-A	UST-A-SP1	UST-A-SP1	2.0	3/11/2021	0.13	0.094	0.14	< 0.084	< 0.084	< 0.084	0.19	**0.18**
	UST-A-SP2	UST-A-SP2	2.0	3/11/2021	0.088	0.075	0.13	0.034	0.092	0.026	0.13	**0.13**
	UST-A-SP3	UST-A-SP3	1.0	3/11/2021	0.027	0.024	0.034	0.012	0.029	< 0.0080	0.024	0.037
MTCA Method A Cleanup Level for Soil[5]												**0.1**

NOTES:

Results in **bold** and highlighted yellow denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the reporting limit listed.

[1]Depth in feet below ground surface.

[2]Analyzed by U.S. Environmental Protection Agency Method 8270E/SIM.

[3]Total carcinogenic polycyclic aromatic hydrocarbons derived using the total toxicity equivalency method in Section 708(8) of Chapter 173-340 of the Washington Administrative Code.

[4]For concentrations reported at less than the laboratory reporting limit, half the reporting limit was used to calculate the TEC.

[5]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

NA = not applicable

TEC = toxic equivalent concentration

Table 5
Soil Analytical Results for PCBs
Block 79 East Property
Seattle, Washington
Farallon PN: 397-035

Excavation Area	Sample Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Analytical Results (milligrams per kilogram)[2]							
					Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
Product Samples												
Hoist 3	Hoist 3-Line	HOIST 3-LINE	NA	3/8/2021	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
Hoist 4	Hoist 4-Line	HOIST 4-LINE	NA	3/8/2021	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
UST-A	UST-A-Product	UST-A-PRODUCT	NA	3/8/2021	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Excavation Samples												
Hoist 1	Hoist-1-E	HOIST-1-E	7.0	3/12/2021	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063
	Hoist-1-S	HOIST-1-S	7.0	3/12/2021	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054
	Hoist-1-W	HOIST-1-W	7.0	3/12/2021	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062
Hoist 2	Hoist-2-N	HOIST-2-N	9.0	3/11/2021	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
	Hoist-2-W	HOIST-2-W	7.0	3/11/2021	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
	Hoist-2-Bottom	HOIST-2-BOTTOM	10.0	3/11/2021	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059
Hoist 3	Hoist-3-N	HOIST-3-N	9.0	3/12/2021	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
	Hoist-3-E	HOIST-3-E	7.0	3/12/2021	< 0.055	< 0.055	< 0.055	< 0.055	< 0.055	< 0.055	< 0.055	< 0.055
	Hoist-3-W	HOIST-3-W	8.0	3/12/2021	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
Hoist 4	Hoist-4-E	HOIST-4-E	8.0	3/11/2021	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059
	Hoist-4-Bottom	HOIST-4-BOTTOM	9.0	3/11/2021	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060
Hoist 5	Hoist-5-E	HOIST-5-E	10.0	3/10/2021	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063
	Hoist-5-W	HOIST-5-W	10.0	3/10/2021	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059
	Hoist-5-Bottom	HOIST-5-BOTTOM	10.0	3/10/2021	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
Hoist 6	Hoist-6-N	HOIST-6-N	6.0	3/12/2021	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064
	Hoist-6-W	HOIST-6-W	6.0	3/12/2021	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
Hoist S2	Hoist-S2-S	HOIST-S2-S	8.5	3/11/2021	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062
Hoist S4	Hoist-S4-8.0	HOIST-S4-8.0	8.0	3/15/2021	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059
Hoist S6	Hoist-S6-8.0	HOIST-S6-8.0	8.0	3/15/2021	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
UST-A	UST-A-Top	UST-A-TOP	NA	3/8/2021	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	0.20	0.20
	UST-A-N	UST-A-N	10.0	3/10/2021	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063
		UST-A-N-15.0	15.0	3/15/2021	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059
	UST-A-E	UST-A-E	10.0	3/10/2021	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060
		UST-A-E-15.0	15.0	3/15/2021	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064
	UST-A-S	UST-A-S	10.0	3/10/2021	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059
		UST-A-S-15.0	15.0	3/15/2021	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060
	UST-A-W	UST-A-W	10.0	3/10/2021	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
	UST-A-W-15.0	UST-A-W-15.0	15.0	3/15/2021	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
	UST-A-Bottom	UST-A-BOTTOM	11.0	3/10/2021	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085
		UST-A-15.0	15.0	3/12/2021	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070
MTCA Method A Cleanup Level for Soil[3]												**1.0**

Table 5
Soil Analytical Results for PCBs
Block 79 East Property
Seattle, Washington
Farallon PN: 397-035

Excavation Area	Sample Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Analytical Results (milligrams per kilogram)[2]							
					Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
Stockpile Samples												
Hoist Spoils	Hoist-SP1	HOIST-SP1	NA	3/15/2021	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
	Hoist-SP2	HOIST-SP2	NA	3/15/2021	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061
	Hoist-SP3	HOIST-SP3	NA	3/15/2021	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060
UST-A	UST-A-SP1	UST-A-SP1	2.0	3/11/2021	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063
	UST-A-SP2	UST-A-SP2	2.0	3/11/2021	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
	UST-A-SP3	UST-A-SP3	1.0	3/11/2021	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060
MTCA Method A Cleanup Level for Soil[3]												**1.0**

NOTES:

< denotes analyte not detected at or exceeding the reporting limit listed.

NA = not applicable

PCB = polychlorinated biphenyl

[1]Depth in feet below ground surface.

[2]Analyzed by U.S. Environmental Protection Agency Method 8082A.

[3]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

APPENDIX A
HISTORICAL FEATURE DECOMMISSIONING AND REMOVAL WORK PLAN

HISTORICAL FEATURE DECOMMISSIONING AND REMOVAL
Block 79 East Property
701, 739, 753 9th Avenue North
Seattle, Washington

Farallon PN: 397-035

FARALLON CONSULTING

Washington
Issaquah | Bellingham | Seattle
Oregon
Portland | Baker City
California
Oakland | Folsom | Irvine

HISTORICAL FEATURE DECOMMISSIONING AND REMOVAL WORK PLAN

BLOCK 79 EAST PROPERTY
701, 739, AND 753 9th AVENUE NORTH
SEATTLE, WASHINGTON

Submitted by:
Farallon Consulting, L.L.C.
975 5th Avenue Northwest
Issaquah, Washington 98027

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For:
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505 5th Avenue South, Suite 900
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February 1, 2021

Prepared by:

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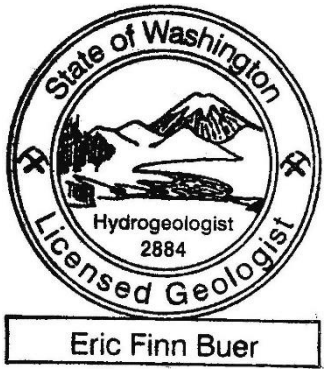

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ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
Block 79 East Property	the property at 701, 739, and 753 9th Avenue North in Seattle Washington
BTEX	benzene, toluene, ethylbenzene, and xylenes
DRO	total petroleum hydrocarbons as diesel-range organics
Ecology	Washington State Department of Ecology
Ecology Guidance	*Guidance for Remediation of Petroleum Contaminated Sites* dated November 2010, revised June 2016, prepared by the Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
Farallon	Farallon Consulting, L.L.C.
GRO	total petroleum hydrocarbons as gasoline-range organics
MTCA	Washington State Model Toxics Control Act Cleanup Regulation
NAVD88	North American Vertical Datum of 1988
ORO	total petroleum hydrocarbons as oil-range organics
PQL	practical quantitation limit
RCW	Revised Code of Washington
TPH	total petroleum hydrocarbons
UST	underground storage tank
WAC	Washington Administrative Code
Work Plan	*Historical Feature Decommissioning and Removal Work Plan, Block 79 East Property, 701, 739, and 753 9th Avenue North, Seattle, Washington* dated February 1, 2021 prepared by Farallon Consulting, L.L.C. (this document)

1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this Historical Feature Decommissioning and Removal Work Plan (Work Plan) for Block 79 LLC to describe a limited interim action at the property at 701, 739, and 753 9th Avenue North in Seattle, Washington (herein collectively referred to as the Block 79 East Property) (Figure 1) to decommission and remove select historical features. Block 79 LLC is in the process of negotiating an Agreed Order with the Washington State Department of Ecology (Ecology) to conduct a Remedial Investigation and Feasibility Study and other work elements at the Block 79 East Property. It is anticipated that the limited interim action described in this Work Plan will be implemented as an independent interim remedial action during negotiation of the Agreed Order.[1]

Redevelopment of the Block 79 East Property is not anticipated within the next 4 years. This Work Plan was prepared as an interim step to weatherize features at the Block 79 East Property that contain or formerly contained hazardous substances, and to address potential points of release of hazardous substances to the subsurface after demolition and removal of buildings currently present or recently removed. Demolition of the final building on the Block 79 East Property is imminent; the decommissioning and removal of the historical features described in this Work Plan are necessary to prevent a future release of hazardous substances and potential migration in the subsurface. Work performed under this Work Plan is not being performed in lieu of and will not supplant work to be performed under the Remedial Investigation that will be conducted under the Agreed Order, currently in negotiation. However, data generated as part of the work described herein may supplement the future Remedial Investigation data collection effort. Potential interim actions to be performed subsequent to the work described in this Work Plan will be identified in the Remedial Investigation Work Plan to be prepared under the forthcoming Agreed Order.

1.1 PURPOSE AND OBJECTIVE

The purpose of this Work Plan is to identify the work elements necessary to weatherize the Block 79 East Property through decommissioning and removal of existing features that may potentially act as points of release for hazardous substances to the subsurface or as preferential pathways for infiltrating precipitation and stormwater. Failure to decommission and remove these features at this time could result in release of hazardous substances to the environment. Where applicable, Farallon has prepared this Work Plan in accordance with the requirements of WAC 173-340 and

[1]Block 79 LLC and Ecology are currently negotiating the terms of the Agreed Order. The interim action described in this Work Plan may be conducted notwithstanding such negotiations, provided that (a) the interim action does not foreclose or preempt the remedial actions under discussion or negotiation and such action does not foreclose the selection of a cleanup action; or (b) Block 79 LLC has provided reasonable notice to Ecology, and Ecology does not object to such action (Section 515[2] of Chapter 173-340 of the Washington Administrative Code (WAC 173-340-515[2]). This interim action does not foreclose or preempt selection of a cleanup action. Block 79 LLC will provide a copy of this Work Plan to Ecology for review.

173-360 and the Ecology (2010) *Guidance for Remediation of Petroleum Contaminated Sites*, revised June 2016 (Ecology Guidance).

Identified potential points of release include historical hydraulic lifts, underground storage tanks (USTs), and other exposed features such as capped pipes, fill ports, and drains (Figure 2). Work elements described in this Work Plan are not intended to define the nature and extent of contamination at the Block 79 East Property. Soil excavation associated with removal of lifts, USTs, and related features will be limited to the minimum extent practicable. As discussed below, soil with concentrations of hazardous substances will be disposed of off the Block 79 East Property at a licensed facility. Subsurface sampling and analysis identified in this Work Plan represent the minimum required by the Ecology Guidance to characterize subsurface conditions and hazardous substances present at features that have been identified for decommissioning and removal.

Analytical results generated under this Work Plan will be used to inform future Remedial Investigation activities, but are not designed or intended to supplant that later characterization work. Similarly, this Work Plan does not provide a complete summary and evaluation of previous investigations performed on the Block 79 East Property. The summary of historical uses and previous work provided focuses on identification and confirmation of historical features that may act as potential points of release for hazardous substances, and on analytical results to confirm the presence or absence of constituents of potential concern. Evaluation and synthesis of the complete body of historical data available for the Block 79 East Property will be performed as part of the Remedial Investigation Work Plan to be prepared under the forthcoming Agreed Order.

1.2 DOCUMENT ORGANIZATION

This Work Plan has been organized into the following sections:

- **Section 2**, **Block 79 East Description and Setting**, provides a description of the Block 79 East Property, surrounding land use, geology and hydrogeology, previously conducted work, and historical features.
- **Section 3, Historical Feature Decommissioning and Removal**, provides a description of the work elements to be performed as part of the historical feature decommissioning and removal, consisting of: permitting; groundwater gauging, a utility locate, and a ground-penetrating radar survey; UST and hydraulic hoist decommissioning and removal; treatment of exposed pipes, grates, and drains; and disposal of impacted soil and wastewater.
- **Section 4**, **Field Procedures**, describes document preparation and protocols for the work proposed, consisting of: preparation of a Health and Safety Plan; field forms and documentation; sampling practices and quality control measures; and sample packaging and shipment.

- **Section 5, Project Schedule and Reporting**, provides a schedule and summary for the planned historical feature decommissioning and removal and sampling and the reporting to be completed under this Work Plan.
- **Section 6**, **References,** provides a list of the documents cited in this Work Plan.
- **Section 7**, **Limitations**, provides Farallon's standard limitations applicable to this Work Plan.

2.0 BLOCK 79 EAST PROPERTY DESCRIPTION AND SETTING

This section provides a basic description of the Block 79 East Property, surrounding land use, the local geology and hydrogeology, previously conducted work, and historical features identified for decommissioning and removal. Detailed discussion of Block 79 East Property historical uses, regulatory history, potential sources, surrounding property historical uses and current conditions, and previous investigations and environmental work will be addressed in the Remedial Investigation Work Plan to be prepared under the forthcoming Agreed Order.

2.1 BLOCK 79 EAST PROPERTY DESCRIPTION

The Block 79 East Property comprises King County Parcel Nos. 4088803435, 4088803565, 408803440, and 4088803485, totaling approximately 1.52 acres in Seattle, King County, Washington (Figure 1). The Block 79 East Property is bordered on the north by Aloha Street, to the east by 9th Avenue North, to the South by Roy Street, and to the west by an alleyway followed by a commercial property owned by Seattle City Light. The topography surrounding the Block 79 East Property is predominantly flat, with a mild slope down toward Lake Union. The ground surface elevation ranges from approximately 28 to 38 feet North American Vertical Datum of 1988 (NAVD88). The ground surface rises and the slope increases to the west beyond 8th Avenue North as it approaches the lower portion of Queen Anne hill.

Several investigations that evaluated one or more individual parcels that now compose the Block 79 East Property were previously performed. For clarity, each King County parcel currently composing the Block 79 East Property was assigned a name for reference:

- Parcel No. 4088803435, 701 9th Avenue North, Buca di Beppo Property;
- Parcel No. 4088803440, 721 9th Avenue North, Ducati Property (includes former Public Garage);
- Parcel 4088803485, 739 9th Avenue North, Maaco Property; and
- Parcel 88803565, 753 9th Avenue North, Former Bayshore Volvo Property.

2.2 SURROUNDING LAND USE

The Block 79 East Property is zoned Seattle Mixed Use, South Lake Union Urban Center. Commercial properties are present on all sides of the Block 79 East Property. The property to the south is undeveloped. South Lake Union Park, which provides public access to the Lake Union shoreline for recreational uses, is northeast of the Block 79 East Property. At its closest point, the Lake Union shoreline is approximately 240 feet northeast of the Block 79 East Property, across 9th Avenue North and Westlake Avenue North.

2.3 GEOLOGY AND HYDROGEOLOGY

The Puget Sound region is underlain by Quaternary sediments deposited by multiple glacial episodes. Deposition occurred prior to, during, and following glacial advances and retreats, creating the existing subsurface conditions. The naturally occurring sediments in the South Lake Union area consist primarily of interlayered and/or sequential deposits of alluvial clays, silts, and sands that typically are situated over deposits of glacial till that consist of silty sand to sandy silt with gravel. Outwash sediments consisting of sands, silts, clays, and gravels were deposited by rivers, streams, and post-glacial lakes during glacial advances and retreats. Advance outwash sediments have been largely over-consolidated by the overriding ice sheets. These advance outwash sediments are overlain by a till-like layer and/or recessional outwash sediments that are less consolidated (Galster and Laprade 1991).

According to subsurface observations by others (GeoEngineers, Inc. [GeoEngineers] 2014b; PanGEO 2014; Professional Service Industries, Inc. 2015), the subsurface at the Block 79 East Property generally comprises shallow fill material from the ground surface to a depth of approximately 20 to 30 feet below ground surface (bgs). The fill material overlies recent alluvial[2] and/or lacustrine sediments that extend to a depth of approximately 80 feet bgs, followed by glacial till to the maximum depth explored of 100 feet bgs. The fill material includes loose silty sand with interbedded silt and anthropogenic debris (e.g., wood, glass, brick). The alluvial deposits are primarily soft to medium stiff silt and/or clay with loose to medium dense sand interbeds. Glacially consolidated soils are identified as dense to very dense sand with variable silt and gravel content. Larger cobbles and boulders also may be present in glacial till material.

Depth-to-groundwater measurements collected by GeoEngineers (2015) in 2015 were approximately 12 feet bgs (18 feet NAVD88) on the Maaco Property. Shallow groundwater was measured at a depth of approximately 15 feet bgs (approximate elevation of 18 feet NAVD88) at monitoring well MW115, located east-adjacent to the southern end of the Block 79 East Property in July 2019. Groundwater on the central portion of the property was reported to be encountered at depths of 12 to 14 feet bgs (approximate elevations of 15 to 17 feet NAVD88) in January 2020. Shallow groundwater elevation monitoring performed in August 2015 and April 2020 indicated that the general direction of groundwater flow at the Block 79 East Property is east to northeast on the northern portion of property, and east on the southern portion.

2.4 SUMMARY OF PREVIOUS WORK CONDUCTED AT THE BLOCK 79 EAST PROPERTY

This section identifies the historical documents reviewed for the Block 79 East Property, and provides a general overview of previous work performed and associated findings that pertain to the historical feature decommissioning and removal. As noted above, a detailed summary of

[2]Alluvial deposits referenced in this section include outwash sand deposits.

previous work performed and associated analytical results for the Block 79 East Property will be prepared as part of the forthcoming Remedial Investigation Work Plan.

2.4.1 Documents Reviewed

The summary of previous work conducted at the Block 79 East Property provided in Section 2.4.3 is based on review of the following reports:

- Letter regarding Preliminary Environmental Assessment, Frank Kenney Toyota/Volvo Property, 800 Ninth Avenue North, Seattle Washington dated December 1988 prepared by Hart Crowser, Inc. (1988).
- *Phase 2 Final Report, Groundwater and Subsurface Soil Investigation at Bayside Toyota Seattle, Washington* dated December 22, 1992, prepared by Enviros, Inc. (1992).
- Letter on the subject Underground Storage Tank Removal and Supplemental Environmental Studies, Bayside Volvo, 753 9th Avenue North, Seattle Washington dated September 15, 1992 prepared by Geotech Consultants Inc. (1992).
- Draft *Level 1 Environmental Assessment, 739 9th Avenue North, Seattle, Washington*, dated November 3, 1999 prepared by Terra Associates, Inc. (1999b).
- Memo on the subject UST Closure Contractors, 739 – 9th Avenue North, Seattle Washington dated September 14, 1999 from Terra Associates, Inc. (1999a).
- *Phase 1 Environmental Site Assessment* dated September 19, 2014 prepared by SoundEarth Strategies, Inc. (2014) for the Buca Di Beppo/Ducati Property 701 9th Avenue North, Seattle, Washington.
- *Phase I Environmental Site Assessment, South Lake Union Marriott AC, 739 9th Avenue North, Seattle, Washington* dated November 13, 2014 prepared by GeoEngineers (2014a).
- *Phase II Environmental Site Assessment, South Lake Union Marriott AC, 739 9th Avenue North, Seattle, Washington,* dated November 13 2014 prepared by GeoEngineers (2014b).
- Letter on the subject Request for NFA-Likely Opinion Letter, Seattle Marriott AC, 739 9th Avenue North – VCP # NW2953, Seattle, Washington dated September 10, 2015 prepared by GeoEngineers (2015).
- *Remedial Investigation and Cleanup Action Plan, Buca di Beppo/Ducati Property* dated November 19, 2015 prepared by SoundEarth Strategies (2015).

2.4.2 Historical Uses Summary

The summary of historical uses of the Block 79 East Property is based on review of documentation of previous investigations performed by others. Features identified are shown on Figure 2.

- Buca di Beppo Property historical uses that may have involved handling of hazardous substances include operation as an automotive/truck repair shop between approximately 1920 and 1969. Potential points of release for hazardous substances include a suspected

waste-oil UST in the partial basement (Feature A), a suspected UST associated with the observed suspect fill port on the northeastern portion of the Ducati Property (Feature H), and the floor drain on the north-central portion of the Buca di Beppo Property (Feature I).

- Ducati Property historical uses that may have involved handling of hazardous substances include auto sales, parking, and repair activities from approximately 1969 to 2020. Potential points of release for hazardous substances include the hydraulic hoists (Feature C_1 and C_2), existing oil-water separators connected to the municipal sewer (Features D and E), and the former greasing pit (Feature G).
- Maaco Property historical uses that may have involved handling of hazardous substances include tire service circa approximately 1924 and 1925, vehicle repair circa approximately 1930, truck welding and equipment manufacturing and sales from approximately 1940 through 1980; vehicle sales and service between approximately 1979 and 1996; and vehicle collision body repair and painting from approximately 1996 through 2020. Potential points of release for hazardous substances include the existing catch basins and oil-water separator (Feature M) on the northwestern portion of the Maaco Property, the former heating oil UST on the central portion of the Maaco Property (Figure L), and the trench drains on the northern portion of the property (Feature R).
- Bayshore Volvo Property historical uses that may have involved handling of hazardous substances include auto or motorcycle sales and service from approximately 1950 through 1992. Potential points of release for hazardous substances include the existing catch basin, and former USTs (Features O, P, and Q).

2.4.3 Summary of Previous Work

Multiple investigations have been performed at the Block 79 East Property from 1988 through 2020. A summary of historical investigations and key findings that pertain to historical feature decommissioning and removal is provided below. Detailed discussion of the nature and extent of subsurface impacts associated with historical sources on and off the Block 79 East Property will be provided in the forthcoming RI Work Plan.

- Hart Crowser, Inc. (1988) conducted a preliminary environmental assessment of the Buca di Beppo and Ducati Properties in 1988. The assessment included advancing four hand-auger borings, one auger-drilled boring, and one monitoring well on the Ducati Property. Soil samples were analyzed for total petroleum hydrocarbons (TPH) by U.S. Environmental Protection Agency (EPA) Method 418.1, and for Resource Conservation and Recovery Act Metals. TPH was detected in soil samples collected proximate to the former hydraulic hoists on the Ducati Property. Hart Crowser, Inc. identified the UST on the Buca di Beppo Property as a waste-oil storage tank based on interviews with the site representative, although no product or soil samples were collected to confirm that waste oil was present.
- Enviros, Inc. (1992) performed an additional subsurface investigation of the Buca di Beppo and Ducati Properties in August and November 1992, which included advancing additional

hand-augered borings proximate to the UST on the Buca di Beppo Property. Soil analytical results confirmed the presence of TPH as diesel- and heavy oil-range organics in soil proximate to the former hydraulic hoists on the Ducati Property, and in soil northeast of the UST on the Buca di Beppo Property. The UST on the Buca di Beppo Property was identified as a heating oil/waste oil UST; however, soil analytical testing was performed for only TPH using Methods HCID and WTPH-418.1.

- Geotech Consultants, Inc. (1992) observed and documented the removal of three USTs from the Bayshore Volvo Property on July 22, 1992. The three tanks were identified as: Tank 1, a 1000-gallon gasoline tank; Tank 2, a 300-gallon used-oil tank; and Tank 3 a 675-gallon fuel-oil tank. TPH as gasoline-range organics (GRO) and BTEX constituents were detected at concentrations exceeding Washington State Model Toxics Control Act Cleanup Regulation (MTCA) cleanup levels in soil samples collected proximate to all three tanks at depths of 4 to 14 feet bgs at the time the tanks were removed.
- Terra Associates, Inc. provided bid services in September 1999 to decommission the estimated 900-gallon heating oil UST on the Maaco Property (Feature L). The solicitation includes analysis of a residual product sample from the tank by method NWTPH-HCID analysis for halogenated volatile organic compounds by EPA Method 8260B. Results from the NWTPH-HCID analysis indicated that the residual product was Diesel Fuel #2. halogenated volatile organic compounds were reported non-detect at the laboratory practical quantitation limit (PQL).
- Terra Associates, Inc. (1999b) conducted a Phase I Environmental Site Assessment (ESA) of the Maaco Property in 1999. The report documenting the work stated that a 900-gallon heating oil tank was decommissioned by Ultra Tank Services by cleaning the tank and filling it with controlled-density fill through the tank port. No soil sampling was performed.
- SoundEarth Strategies, Inc. (2014a) conducted a Phase I ESA at the Buca di Beppo/Ducati Property in September 2014. Among other observations, SoundEarth Strategies, Inc. identified a suspected UST fill port (Feature H) filled with concrete on the eastern side of the Buca di Beppo/Ducati Property. The SouthEarth Strategies, Inc. Phase I ESA report did not identify any registered USTs on either the Buca di Beppo or Ducati Properties.
- GeoEngineers (2014b) completed a Phase II ESA at the Maaco Property in November 2014 that included advancing 4 hollow-stem-auger borings, 3 of which were completed as monitoring wells, and 12 direct-push borings. Soil samples collected from the borings were analyzed for TPH, polycyclic aromatic hydrocarbons, volatile organic compounds, and Resource Conservation and Recovery Act metals (arsenic, barium, cadmium, chromium, mercury, lead, selenium, silver). GRO, benzene, metals, and carcinogenic polycyclic aromatic hydrocarbons were detected at concentrations exceeding MTCA cleanup levels in soil samples collected proximate to the former 900-gallon heating-oil UST. One sample was analyzed using the toxicity characteristic leaching protocol for lead, the result was less than the threshold value for characteristic waste of 5 milligrams per liter. Halogenated volatile organic compounds were reported non-detect at the laboratory PQL for all soil samples.

- SoundEarth Strategies, Inc. (2015) prepared a Remedial Investigation and Cleanup Action Plan for the Buca di Beppo and Ducati Properties in 2015 that included advancement of seven additional borings on the Ducati Property to a depth of 25 feet bgs at locations were subsurface impacts were previously confirmed. Soil samples collected from the borings were analyzed for GRO, TPH as diesel-range organics (DRO) and as oil-range organics (ORO), chlorinated volatile organic compounds, BTEX, and Model Toxics Control Act metals (arsenic, cadmium, chromium, lead, mercury). DRO was detected at a concentration exceeding the MTCA Method A cleanup level in soil proximate to the suspected heating oil/waste-oil UST on the Buca di Beppo Property; GRO, BTEX constituents, and chlorinated volatile organic compounds were reported non-detect at the laboratory PQL; and ORO and metals were reported either non-detect at the PQL or at concentrations less than MTCA cleanup levels.

2.5 HISTORICAL FEATURES

Farallon reviewed characterization work performed by others to identify 18 historical features[3] on the Block 79 East Property that may be potential points of release or associated with a potential point of release, which include former hydraulic hoists and associated reservoirs, USTs that were previously closed in-place, a greasing pit, and stubbed-out pipes of unknown origin or suspected to be fill ports for USTs. Approximate locations of these historical features at the Block 79 East Property are shown on Figure 2.

The current status of historical features was confirmed during a visit by Farallon to the Block 79 East Property on October 2, 2020. At that time, Farallon observed that no surface expression remained for several previously identified historical features (Table 1).[4] Because the purpose of this Work Plan is to address only historical features that may act as points of release for hazardous substances to the subsurface or as preferential pathways for infiltrating precipitation and stormwater, historical features other than the identified USTs that currently are protected by surface paving on the Block 79 East Property were not considered for decommissioning and removal as part of this Work Plan.

Characterization of any subsurface impact associated with existing stormwater infrastructure also is beyond the scope of this Work Plan, as stormwater infrastructure features will remain in use for the foreseeable future. Characterization of the subsurface conditions of working infrastructure or potential releases from other non-UST historical features will be addressed in the Remedial Investigation Work Plan to be prepared under the forthcoming Agreed Order.

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[3]Hydraulic hoists are called out separately on Figure 2 for those observed at the Block 79 East Property and those that were not observed.

[4] The floor drain identified as Feature I on Figure 2 was covered by demolition debris at the time of the site visit. This drain subsequently was replaced with a full-size catch basin for stormwater management.

Historical features to be decommissioned and/or removed from the Block 79 East Property consist of the following (Figure 2):

- The suspected heating oil/waste oil UST and associated sump and conveyance piping on the western portion of the Former Ducati Property and/or Public Garage (features A, B, and K);
- The four confirmed hydraulic hoists with conveyance lines penetrating the existing concrete slab in the central portion of the Public Garage (feature C_1; no surface features of former hoists at location C_2);
- The suspected UST fill port and associated UST (if present) on the eastern portion of the Public Garage Property (feature H);
- The previously former 900-gallon heating oil UST (feature L) previously closed in-place on the Maaco Property; and
- The trench drains and grates along the property line between the Maaco Property and the Former Bayshore Volvo Property (feature R).

Proposed soil sampling and analysis for each historical feature is provided in Table 1. Proposed sample locations are shown on Figure 2.

3.0 HISTORICAL FEATURE DECOMMISSIONING AND REMOVAL

This section describes work elements to be performed as part of the historical feature decommissioning and removal on the Block 79 East Property. The work elements consist of: permitting; groundwater gauging, a utility locate, and a ground-penetrating radar survey; UST and hydraulic hoist decommissioning and removal; treatment of exposed pipes, grates, and drains; and disposal of impacted soil and wastewater.

3.1 PERMITTING

Block 79 LLC will file a 30-day Notice with Ecology and procure the necessary permits from the City of Seattle, the Seattle Department of Transportation, and/or the Seattle Fire Department before the historical feature decommissioning and removal commences. No work in the public right-of-way is anticipated.

3.2 GROUNDWATER GAUGING, UTILITY LOCATE, AND GROUND-PENETRATING RADAR SURVEY

Prior to commencing work, Farallon will gauge depths to groundwater at existing monitoring wells on the Block 79 East Property to evaluate depths to groundwater. For each monitoring well, Farallon field personnel will remove the locking well cap and allow the groundwater level to equilibrate to atmospheric pressure for at least 15 minutes. The depth to groundwater from the top of the well casing will be measured in the monitoring well to the nearest 0.01 foot using an electronic water-level measuring device. The total depth of the monitoring well will be measured to evaluate siltation of the well-screen interval, and to calculate the submerged well-casing volume. Reusable equipment will be decontaminated after each use.

Prior to breaking ground on any decommissioning and removal activities, Farallon will retain public and private utility-locating services to clear the proposed work areas. To limit ground disturbance, a ground-penetrating radar survey will be conducted at historical UST locations to confirm the presence of the tanks and their approximate dimensions. Magnetic traces using a low-voltage portable power source will be performed on the suspected fill ports identified on the central portion of the Block 79 East Property (Figure 2 features B, H, and L) to identify conveyance line routing and/or the presence of an associated UST.

3.3 UST AND HYDRAULIC HOIST DECOMMISSIONING AND REMOVAL

USTs and hydraulic hoists will be permanently decommissioned and removed from the Block 79 East Property. Decommissioning and removal of each feature identified in this section will be conducted in accordance with MTCA, as established in WAC 173-340; Washington State Underground Storage Tank Regulations (WAC 173-360); the Ecology (1991) *Guidance for Site*

Checks and Site Assessments for Underground Storage Tanks dated February 1991, revised April 2003; and the Ecology Guidance.

3.3.1 Hydraulic Hoist and UST Decommissioning

The decommissioning process will involve the following activities at a minimum for each hydraulic hoist or UST:

- Filing a 30-Day Notice for Underground Storage Tank Systems with Ecology;
- Obtaining a Decommissioning Permit from the Seattle Fire Department, and arranging for Seattle Fire Department inspection to authorize removal of the UST;
- Flushing accessible product lines to transfer residual fuel in the lines back into the UST;
- Inerting of the UST atmosphere by a Marine Chemist in preparation for removal;
- Exposing the UST and removing residual product;
- Cleaning and triple-rinsing the UST interior;
- Capturing and containerizing wastewater for off-site disposal;
- Removing the UST from the excavation for inspection;
- Collecting site assessment soil samples from the four sidewalls and bottom of the UST excavation as specified by the Ecology Guidance;
- Completing the Ecology UST Site Check/Site Assessment Checklist by a Farallon representative registered as a Washington State-certified UST site assessor;
- Lining the excavation with polyethylene plastic prior to backfilling, and compacting clean fill to restore the excavation to the existing surface grade; and
- Restoring the existing ground surface and grade with hot-mix asphalt or concrete.

The banks of hydraulic hoists will be treated as a UST system to decommission and remove the underground reservoirs and hydraulic rams, with samples collected at the locations shown on Figure 2. If groundwater is observed in an excavation during decommissioning work, the depth to groundwater from the ground surface will be measured, and the condition of the excavation will be photographed. Installation of monitoring wells proximate to the excavation where groundwater was observed will be addressed in the forthcoming Remedial Investigation Work Plan.

3.3.2 Free-Product Interim Actions

If free-product- or product-saturated soil is encountered during decommissioning and removal activities, the following actions at a minimum will be taken:

- Block 79 LLC will notify Ecology within 24-hours in accordance with WAC 173-340-450(2)(a).

- The soil will be removed to the maximum extent practicable in a manner that minimizes the spread of hazardous substances. Edges of the excavation will be recorded using a handheld global positioning system that is accurate to within less than 2.5 feet horizontally.
- Soil samples will be collected at the edges of the excavation and from the excavation bottom in accordance with the Ecology Guidance (i.e., 1 for every 20 linear feet of sidewall, and 1 for every 400 square feet of excavation bottom).
- Any free product or product-saturated soil will be profiled and disposed of in accordance with MTCA and RCRA requirements.
- A status report will be provided to Ecology within 20 days after the release was identified, in accordance with WAC 173-340-450(5)(a). With confirmation from Ecology, additional site characterization, including installation of additional monitoring wells proximate to the UST excavations (if needed), will be performed under the Remedial Investigation to be conducted at a later date.

3.3.3 Soil Sampling

A Farallon Field Scientist will observe subsurface conditions and retain soil samples from each excavation in accordance with the Ecology Guidance. The Farallon Field Scientist will screen soil samples based on field indications of potential contamination, including performing headspace testing for volatile organic vapors using a photoionization detector. Field observations, including soil types encountered, visual and olfactory evidence of contamination, and volatile organic vapor concentrations as measured using a photoionization detector, will be recorded on a Log of Test Pit form.

A minimum of five soil samples from each excavation will be analyzed for the analytes specified in Section 3.3.4, Laboratory Analysis, and in Table 1. Where indications of contamination are observed in multiple soil samples, the sample with the highest photoionization detector reading, strongest odor, or most-extensive visual staining will be submitted for analysis. If no indication of contamination is observed, the samples will be collected from the approximate center of each excavation sidewall at the UST invert elevation, and from the center of the bottom of the UST excavation. The soil samples will be collected from the decontaminated bucket of the track-mounted excavator used to perform the removals.

3.3.4 Laboratory Analysis

Soil samples will be submitted for analysis for the following analytes by one or more of the analytical methods shown, based on the identified historical use of the UST:

- GRO by Northwest Method NTWPH-Gx;
- DRO and ORO by Northwest Method NTWPH-Dx;

- The volatile organic compounds hexane, fuel additives, halogenated volatile organic compounds, BTEX constituents, and fuel additives[5] by EPA Method 8260;
- Resource Conservation and Recovery Act metals by EPA Method Series 200/6000/7000;
- Carcinogenic polycyclic aromatic hydrocarbons by EPA Method 8270; and
- Polychlorinated biphenyls by EPA Method 8082.

The proposed analysis of soil samples collected as part of historical feature decommissioning and removal is shown in Table 1.

3.4 TREATMENT OF EXPOSED PIPES, GRATES, AND DRAINS

Remaining exposed pipes, grates, and drains that are not associated with either a UST or an active stormwater management system (feature R) will be cut below the ground surface, fitted with a water-tight cap, and preserved in a surface-mounted monument with a flush-mounted traffic-rated cover. The floor drain identified on the Ducati Property (Feature I) has been replaced with a full-size catch basin to capture stormwater on the Block 79 East Property.

3.5 DISPOSAL OF IMPACTED SOIL AND WASTEWATER

Soil with impacts from TPH or other hazardous substances will require special handling and disposal measures beyond those required for clean soil. Excavated soil generated as part of the limited interim action will be temporarily stockpiled and covered on the Block 79 East Property. Stockpiles will be sampled in accordance with the Ecology Guidance based on the final volume excavated.

Soil from each excavation will be stockpiled separately and sampled in accordance with the Ecology Guidance based on the final volume excavated. Based on the approximate dimensions shown on Figure 2 and an estimated total depth of 8 feet bgs, estimated volumes to be excavated at each feature are as follows:

- Features A, B, and K: 40 cubic yards; 3 samples;
- Feature C_1: 90 cubic yards; 3 samples;
- Feature H (if present): 40 cubic yards; 3 samples; and
- Feature L: 90 cubic yards; 3 samples.

[5]If gasoline is confirmed to be present in the sample, additional analysis for fuel additives will be performed using Method EPA 8260 with selective ion monitoring.

Excavated soil will be profiled based on the stockpile and in-situ sample analytical results, and will be disposed of at a licensed facility off the Block 79 East Property in accordance with Washington State Solid Waste Management Laws and Regulations (Chapter 70.95 of the Revised Code of Washington [RCW 70.95]; WAC 173-351 and 173-304); and Dangerous Waste Regulations (RCW 70.105; WAC 173-303).

Wastewater generated as part of decommissioning activities includes water removed from USTs (if present), and decontamination wash water. Wastewater will be segregated by source, containerized, sampled, and analyzed for the same analytes listed for soil at each historical feature as specified in Table 1. Wastewater will be temporarily stored on the Block 79 East Property pending profiling and selection of an appropriate disposal facility in accordance with applicable laws and regulations. Examples of container labels are provided in Appendix A.

4.0 FIELD PROCEDURES

This section describes required elements for preparing and documenting the work proposed at the Block 79 East Property, including preparation of a Health and Safety Plan; completion of field forms and documentation; sampling and analysis procedures; and sample packaging and shipment requirements.

4.1 HEALTH AND SAFETY PLAN

Prior to performing any work at the Block 79 East Property, Farallon will prepare a Health and Safety Plan, as required by Part 1910 of Title 29 of the Code of Federal Regulations and WAC 296-62, to address the activities described in this Work Plan.

4.2 FIELD FORMS AND DOCUMENTATION

Field observations will be recorded on Field Report forms, Log of Test Pit forms, field sampling forms, Chain of Custody forms, and other applicable forms. Examples of the forms to be used are provided in Appendix B. Field note procedures will be conducted in accordance with the practices outlined in Farallon's *Standard Operating Procedure GN-01, Field Note Procedures*. Farallon's standard operating procedures are provided in Appendix C.

4.3 SAMPLING PRACTICES, CONTAINERS, PRESERVATION PROCEDURES, AND HOLDING TIMES

Farallon staff will follow established standard operating procedures in collecting soil and wastewater samples (Appendix C). Each sample will be assigned a unique sample identifier of following the format: Feature-Location-Depth. For example, a soil sample collected from the southern end of the hydraulic hoist bank excavation at a depth of 8 feet would be identified as HHB-S-8.0. Depths will be recorded to the nearest 0.5 foot. Sample identifiers will be recorded in field notes, on log forms, and the Chain of Custody form.

Sample containers, preservation procedures, and holding times for each medium and analysis are shown in Table 2.

4.4 SAMPLE PACKAGING AND SHIPMENT

Samples for laboratory analysis that will be shipped by a local courier will be packaged according to applicable regulations and the recommendations of the laboratory performing the analysis. Samples will be sealed in coolers in accordance with the protocols for cooler packing and handling presented in Farallon's *Standard Operating Procedure GN-03, Sample Shipping* (Appendix C), and transported to the analytical laboratory.

5.0 PROJECT SCHEDULE AND REPORTING

Historical feature decommissioning and removal, and associated sampling are currently planned for February 2021. Farallon will prepare a summary report documenting the decommissioning and removal work performed for submittal to Ecology within 60 days of completing the limited interim actions. The report will include a background summary, a description of the rationale for and a summary of the work performed; a description of the final confirmed locations of historical features; the dimensions of excavations; analytical results; and documentation of the disposal of impacted soil and wastewater, and other applicable documentation.

6.0 REFERENCES

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Washington State Department of Ecology (Ecology). 1991. *Guidance for Site Checks and Site Assessments for Underground Storage Tanks.* Publication # 90-52. Revised April 2003. February.

———. 2010. *Guidance for Remediation of Petroleum Contaminated Sites*. Publication No. 10-09-057. Revised June 2016. November.

7.0 LIMITATIONS

7.1 GENERAL LIMITATIONS

The conclusions contained in this report/assessment are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location. The conclusions contained herein are subject to the following inherent limitations:

- **Accuracy of Information**. Farallon obtained, reviewed, and evaluated certain information used in this report/assessment from sources that were believed to be reliable. Farallon's conclusions, opinions, and recommendations are based in part on such information. Farallon's services did not include verification of its accuracy or authenticity. Should the information upon which Farallon relied prove to be inaccurate or unreliable, Farallon reserves the right to amend or revise its conclusions, opinions, and/or recommendations.
- **Reconnaissance and/or Characterization**. Farallon performed a reconnaissance and/or characterization of the Site that is the subject of this report/assessment to document current conditions. Farallon focused on areas deemed more likely to exhibit hazardous materials conditions. Contamination may exist in other areas of the Site that were not investigated or were inaccessible. Site activities beyond Farallon's control could change at any time after the completion of this report/assessment.

For the foregoing reasons, Farallon cannot and does not warrant or guarantee that the Site is free of hazardous or potentially hazardous substances or conditions, or that latent or undiscovered conditions will not become evident in the future. Farallon's observations, findings, and opinions can be considered valid only as of the date of the report.

This report/assessment has been prepared in accordance with the contract for services between Farallon and Block 79 LLC, and currently accepted industry standards. No other warranties, representations, or certifications are made.

7.2 LIMITATION ON RELIANCE BY THIRD PARTIES

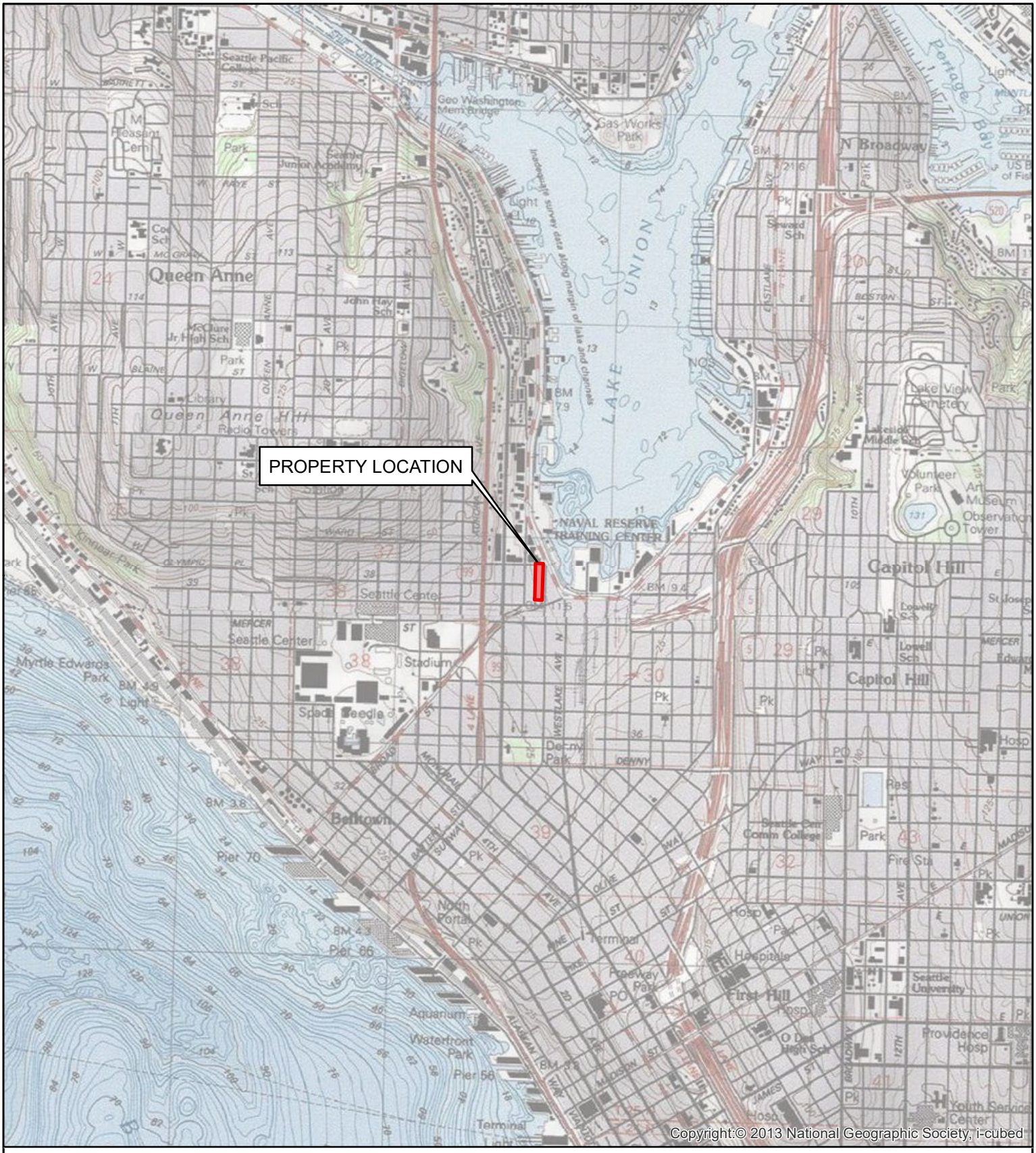
Reliance by third parties is prohibited. This report/assessment has been prepared for the exclusive use of Block 79 LLC to address the unique needs of Block 79 LLC at the Block 79 East Property at a specific point in time.

This is not a general grant of reliance. No one other than Block 79 LLC may rely on this report unless Farallon agrees in advance to such reliance in writing. Any unauthorized use, interpretation, or reliance on this report/assessment is at the sole risk of that party, and Farallon will have no liability for such unauthorized use, interpretation, or reliance.

FIGURES

HISTORICAL FEATURE
DECOMMISSIONING AND REMOVAL WORK PLAN
Block 79 East Property
701, 739, and 753 9th Avenue North
Seattle, Washington

Farallon PN: 397-035



REFERENCE: 7.5 MINUTE USGS QUADRANGLE SEATTLE NORTH, WASHINGTON, DATED 1983

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Oakland | Folsom | Irvine

FIGURE 1

VICINITY MAP
BLOCK 79 EAST PROPERTY
701, 739, AND 753 9TH AVENUE NORTH
SEATTLE, WASHINGTON

FARALLON PN: 397-035

Drawn By: tperrin | Checked By: EB | Date: 10/13/2020 | Disc Reference:

Document Path: Q:\Projects\397 VULCAN\035 Block79\001 Proposal\Figure-01_SiteVicinity.mxd

LABEL	REPORTED FEATURES
A	SUSPECTED HEATING OIL/WASTE OIL UST
B	UST FILL PORT AND VENT PIPE
C_1	FORMER HYDRAULIC HOISTS
C_2	FORMER HYDRAULIC HOISTS - NOT OBSERVED
D	OIL-WATER SEPARATOR
E	OIL-WATER SEPARATOR
F	FORMER CATCH BASIN - NOT OBSERVED
G	FORMER GREASING PIT - NOT OBSERVED
H	SUSPECTED UST FILL PORT
I	FLOOR DRAIN
J	2-INCHED CAPPED PIPE - NOT OBSERVED
K	WASTE OIL SUMP
L	FORMER 900-GALLON HEATING OIL UST (CLOSED IN-PLACE)
M	OIL-WATER SEPARATOR
N	POTENTIAL OIL-WATER SEPARATOR - NOT OBSERVED
O	FORMER 1,000-GALLON GASOLINE UST (REMOVED 1992)
P	FORMER 300-GALLON WASTE OIL UST (REMOVED 1992)
Q	FORMER 675-GALLON FUEL OIL UST (REMOVED 1992)
R	TRENCH DRAIN AND GRATES

8th AVENUE NORTH

ALOHA STREET

ROY STREET

ALLEY WAY

9th AVENUE NORTH

SEATTLE CITY LIGHT PROPERTY
(ROY STREET SHOPS)
802 ROY STREET

FORMER BUCA DI BEPPO
701 9th AVENUE NORTH

FORMER DUCATI PROPERTY
721 9th AVENUE NORTH

MAACO PROPERTY
739 9th AVENUE NORTH

FORMER BAYSHORE VOLVO PROPERTY
753 9th AVE NORTH

LEGEND

- PROPOSED SAMPLE LOCATION
- CATCH BASIN
- TRENCH GRATE
- CAPPED PIPE
- FLOOR DRAIN/CATCH BASIN
- SUMP
- UST FILL PORT
- TRENCH DRAIN
- FORMER GREASING PIT
- FORMER HYDRAULIC HOIST
- FORMER OR EXISTING UNDERGROUND STORAGE TANK (UST)
- FORMER BUILDING FEATURE
- KING COUNTY PARCEL BOUNDARY

NOTES:
1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.
3. FORMER DUCATI PROPERTY INCLUDES AREA PREVIOUSLY IDENTIFIED AS PUBLIC GARAGE

N

0 40

SCALE IN FEET

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Oregon
Portland | Baker City

California
Oakland | Folsom | Irvine

FIGURE 2

PROPERTY FEATURES
BLOCK 79 EAST PROPERTY
701, 739, AND 753 9th AVENUE NORTH
SEATTLE, WASHINGTON

FARALLON PN: 397-035+014

Drawn By: tperrin | Checked By: EB | Date: 1/20/2021 | Disc Reference:

Document Path: Q:\Projects\397 VULCAN\035 Block79\001 Proposal\Figure-02 BL79E Features_proposed.mxd

TABLES

HISTORICAL FEATURE
DECOMMISSIONING AND REMOVAL WORK PLAN
Block 79 East Property
701, 739, and 753 9th Avenue North
Seattle, Washington

Farallon PN: 397-035

Table 1
Proposed Soil Sampling and Analysis
Block 79 East Property
Seattle, Washington
Farallon PN: 397-035

Feature	Figure 2 Label	Analyte, Analytical Method[1], and Planned Number of Samples							Comments
		GRO	DRO and ORO	BTEX + CVOCs	Fuel Additives2	RCRA 8 Metals	cPAHs	PCBs	
		NWTPH-Gx	NWTPH-Dx	EPA 8260D	EPA 8260D	EPA Method Series 200/6000/7000	EPA 8270E	EPA 8082A	
Suspected Heating Oil/Waste-Oil UST	A	6	6	6	6	6	6	6	If present, tank product will be analyzed for TPH by Method NWTPH-HCID in addition to the analytical methods shown.
UST Fill Port and Vent Pipe	B	5	5	5	5	5	5	5	Magnetic trace on fill port to confirm UST status.
Former Hydraulic Hoists	C_1	10	10	10	10	10	10	10	
Former Hydraulic Hoists -- Not Observed	C_2	--	--	--	--	--	--	--	
Oil-Water Separator	D	--	--	--	--	--	--	--	Existing stormwater infrastructure.
Oil-Water Separator	E	--	--	--	--	--	--	--	Existing stormwater infrastructure.
Former Catch Basin -- Not Observed	F	--	--	--	--	--	--	--	No visible evidence at ground surface.
Former Greasing Pit -- Not Observed	G	--	--	--	--	--	--	--	No visible evidence at ground surface.
Suspected UST Fill Port	H	7	7	7	7	7	7	7	Magnetic trace on fill port to confirm UST status. If present, tank product will be analyzed by Method NWTPH-HCID in addition to the constituents shown in this table.
Floor Drain	I	--	--	--	--	--	--	--	Replaced with catch basin for stormwater management.
2-Inch Capped Pipe -- Not Observed	J	--	--	--	--	--	--	--	No visible evidence at ground surface.
Waste Oil Sump	K	--	--	--	--	--	--	--	Sampling coincides with Feature A.
Former 900-Gallon Heating Oil UST[3]	L	--	5	--	--	--	--	--	
Oil-Water Separator	M	--	--	--	--	--	--	--	Existing stormwater infrastructure.
Potential Oil-Water Separator -- Not Observed	N	--	--	--	--	--	--	--	No visible evidence at ground surface.
Former 1,000-Gallon Gasoline UST[4]	O	--	--	--	--	--	--	--	Decommissioned and removed in 1992.
Former 300-Gallon Waste-Oil UST[4]	P	--	--	--	--	--	--	--	Decommissioned and removed in 1992.
Former 675-Gallon Fuel Oil UST[4]	Q	--	--	--	--	--	--	--	Decommissioned and removed in 1992.

Table 1
Proposed Soil Sampling and Analysis
Block 79 East Property
Seattle, Washington
Farallon PN: 397-035

Feature	Figure 2 Label	Analyte, Analytical Method[1], and Planned Number of Samples							Comments
		GRO	DRO and ORO	BTEX + CVOCs	Fuel Additives2	RCRA 8 Metals	cPAHs	PCBs	
		NWTPH-Gx	NWTPH-Dx	EPA 8260D	EPA 8260D	EPA Method Series 200/6000/7000	EPA 8270E	EPA 8082A	
Trench Drain and Grates	R	--	--	--	--	--	--	--	Grates to be removed and lines capped below ground surface.
Stockpiled Soil	--	12	12	12	12	12	12	12	
Sample Count		**28**	**33**	**28**	**28**	**28**	**28**	**28**	

NOTES:

Gold shading indicates no evidence of the feature was observed at the ground surface on October 2, 2020.

Blue shading indicates existing in-use stormwater infrastructure that will not be addressed as part of this Work Plan.

[1]Analytical testing is based on the Washington State Department of Ecology *Guidance for Remediation of Petroleum Contaminated Sites*, Publication No. 10-09-057 dated November 2010, revised June 2016.

[2]If total petroleum hydrocarbons are not detected, these analyses will not be performed.

[3]Historical feature previously closed in-place.

[4]Removed per Geotech Consultants, Inc. report *Underground Storage Tank Removal and Supplemental Environmental Studies, Bayside Volvo 753 9th Avenue North, Seattle, Washington, 98112* dated September 15, 1992.

Table 2
Proposed Sampling Containers, Preservation Procedures, and Holding Times
Block 79 East Property
Seattle, Washington
Farallon PN: 397-035

Proposed Analyte	Analytical Method	Soil Container	Soil Preservation	Soil Holding Time	Water Container	Water Preservation	Water Holding Time
Total Petroleum Hydrocarbons, Hydrocarbon Identification for Residual Product (if encountered)	**NWTPH-HCID**	--	--	--	500 ml Amber Glass 3 x 40 ml Glass Vial	HCl pH≤2 (Glass Vials), cool ≤6°C	14 Days to Analyze
Total Petroleum Hydrocarbons as Gasoline-Range Organics	**NWTPH-Gx**	1 x 4 oz CWMG	Cool ≤6°C	14 Days to Analyze	3 x 40 ml Glass Vial	HCl pH≤2, cool ≤6°C	14 Days to Analyze
Total Petroleum Hydrocarbons as Diesel- and as Oil-Range Organics	**NWTPH-Dx**	1 x 4 oz CWMG	Cool ≤6°C	14 Days to Extract	2 x 500 ml Amber Glass	HCl pH≤2, Cool to ≤6°C	14 Days to Extract
Volatile Organic Compounds[1]	**EPA 8260**	3 x 40 ml Glass Vial	Field Preserve[2] Cool ≤6°C	7 Days to Extract	3 x 40 ml Glass Vial	HCl pH≤2, Cool to ≤6°C	14 Days to Extract
Resource Conservation and Recovery Act 8 Metals	**EPA Series 200/6000/7000**	1 x 4 oz CWMG	Cool ≤6°C	6 Months to Analyze	1 x 500 ml HDPE	HNO_3 pH<2, Cool to ≤6°C	6 Months to Analyze 28 Days for Mercury
Carcinogenic Polycyclic Aromatic Hydrocarbons	**EPA 8270**	1 x 4 oz CWMG	Cool ≤6°C	14 Days to Extract	2 x 1 Liter Amber Glass	Cool to ≤6°C	7 Days to Extract
Polychlorinated Biphenyls	**EPA 8082**	1 x 4 oz CWMG	Cool ≤6°C	None	2 x Liter l Amber Glass	Cool to ≤6°C	None

NOTES:

°C = degrees Celsius

[1]Includes benzene, toluene, ethylbenzene, xylenes, fuel additives, and chlorinated volatile organic compounds.

Fuel additive analysis to be performed with selective ion monitoring only if gasoline is confirmed in the sample.

[2]1 x vial with 5 ml methanol, 2 x vials with sodium bisulfate to pH ≤2.

CWMG = clear wide-mouth glass

EPA = U.S. Environmental Protection Agency

HCl = hydrochloric acid

HDPE = high-density polyethylene

HNO_3 = nitric acid

ml = milliliter

APPENDIX A
CONTAINER LABEL EXAMPLES

HISTORICAL FEATURE
DECOMMISSIONING AND REMOVAL WORK PLAN
Block 79 East Property
701, 739, and 753 9th Avenue North
Seattle, Washington

Farallon PN: 397-035

THIS CONTAINER ON HOLD PENDING ANALYSIS

CONTENTS Soil from borings FB01 and FB02

ORIGIN OF MATERIALS Subsurface Investigation

ADDRESS 1234 Site Address

CONTACT Farallon Consulting - (425) 295-0800

DO NOT TAMPER WITH CONTAINER
AUTHORIZED PERSONNEL ONLY

NON-HAZARDOUS WASTE

OPTIONAL INFORMATION

Client Name

SHIPPER

1234 Site Address

ADDRESS

Seattle, Washington 98101

CITY STATE, ZIP

Purge Water (FMW-2)

CONTENTS

HAZARDOUS WASTE

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL

IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY.

ACCUMULATION START DATE First Day Waste Added **E.P.A. WASTE NO.** WAD00000000

D.O.T. PROPER SHIPPING NAME Added by transporter

AND

U.N. OR N.A. NO. Added by transporter

GENERATOR NAME Client Name

ADDRESS 1234 Site Address

CITY Seattle **STATE** Washington

E.P.A. I.D. NO. WAD000000000 **MANIFEST DOCUMENT NO.** Added by transporter

HAZARDOUS WASTE
HANDLE WITH CARE

29-HML-S (Rev. 10/96)

Published by J. J. KELLER & ASSOCIATES, INC., Neenah, WI • USA • (800) 327-6868

WASHINGTON STATE DANGEROUS WASTE

WA. STATE LAW PROHIBITS IMPROPER DISPOSAL

IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY, AND THE WASHINGTON STATE DEPT. OF ECOLOGY (NOT REGULATED BY U.S. E.P.A. 40 CFR PART 261)

ACCUMULATION START DATE First day waste added **STATE WASTE CODES** WT01

SHIPPING NAME Added by transporter

AND

CONSTITUENTS Lead, Chromium

GENERATOR NAME Client Name

ADDRESS 1234 Site Address

CITY Seattle **STATE** Washington

E.P.A. / STATE I.D. NO. WAD000000000 **MANIFEST DOCUMENT NO.** Added by transporter

WASHINGTON STATE DANGEROUS WASTE

HANDLE WITH CARE

FORM NO. 1275281

APPENDIX B
FIELD FORM EXAMPLES

HISTORICAL FEATURE
DECOMMISSIONING AND REMOVAL WORK PLAN
Block 79 East Property
701, 739, and 753 9th Avenue North
Seattle, Washington

Farallon PN: 397-035

Chain of Custody

Page _____ of _____

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company:

Project Number:

Project Name:

Project Manager:

Sampled by:

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Day ☐ 3 Day

☐ Standard (7 working days)

☐ _____ (other)

Laboratory Number:

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	VPH	EPH					% Moisture

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by					
Received by					
Relinquished by					
Received by					
Relinquished by					
Received by					

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

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FIELD REPORT

Page ___ of ___

Date: _____ **Project #:** _____ **Task #:**_____

Project: _____ **Site Address:** _____

Client: _____ **Contractor:** _____

Weather: _____ **Temp:** _____

Equipment Used: _____

Hours: _____ _____ **Mileage:** _____ **Project Manager:** _____

Contractor *Staff*

Prepared By: _____ **Reviewed By:** _____

Comments:

FIELD REPORT (continued)

Page ___ of ___

Project: _____ Date: _____ Project #: _____ Task #:_____

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Sheet____of____

Soil Sample Data Log

Date: _____ **Project Name:** _____ **Farallon P/N:** _____

PID Model & Serial No: _____ **Calibration Date/Standard:** _____

Headspace Container: ☐ 16 oz glass ☐ 8 oz glass ☐ Zip-loc ☐ Other

Sample Method: ☐ Hand auger ☐ Direct push ☐ Split spoon ☐ Corer ☐ Other

Equip Decon: ☐ Tap water wash ☐ DIST/DEION 1 Rinse ☐ Isopropanol ☐ Analyte-free final rinse ☐ Tap water final rinse

☐ Alconox wash ☐ Liquinox Wash ☐ DIST/DEION 2 rinse ☐ Other solvent ☐ DIST/DEION final rinse ☐Air Dry

Test Pit/Boring Location	Sample ID	Time	Depth	PID	Odor	Sheen Tare Weight	Staining Field Weight	Containers	Lithological Description Remarks

2 oz = two-ounce jars

4 oz = four-ounce jars

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Log of Test Pit:

Client:	**Date/Time Started:**	**Sampler Type:**
Project:	**Date/Time Completed:**	**Depth of Water (feet bgs):**
Location:	**Equipment:**	**Excavation Depth (feet bgs):**
Farallon PN:	**Excavation Company:**	
Logged By:	**Excavation Foreman:**	
	Excavation Method:	

Depth (feet bgs)	Sample Interval	Lithologic Description	USCS	PID (ppm*)	Sample ID	Sample Analyzed
0						
5						
10						
15						
20						

Well Construction Information

Sampler Type:	Ground Surface Elevation (ft):
Trench Diameter (ft):	Total Test Pit Depth (ft bgs):
Depth to Water (ft):	Backfilled: Yes No

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Washington
Issaquah | Bellingham | Seattle

Oregon
Portland | Baker City

California
Oakland | Folsom | Irvine

UTILITY CLEARANCE LOG

Project Name: _____ **Project Number:** _____

Location: _____ **Date of Work:** _____

Instructions. This log must be completed by a Farallon staff member **before** any Farallon-directed excavation (e.g., test pit excavation) or drilling operation.

DRILLING OR EXCAVATION WORK MAY NOT COMMENCE UNTIL UTILITY LOCATES HAVE BEEN COMPLETED

(See the One-Call Utility Locate Request Procedure on reverse side of this form)

Farallon is responsible for having underground utilities and structures located and marked when drilling or directing test pit excavation operations. Any drilling or excavation within 2 feet of a marked utility must be done with hand tools.

Owners of underground utilities are required by law to mark underground facilities on public and private property. Owners of underground utilities are **not required** to mark existing service laterals or appurtenances. Utility owners in Washington are required to subscribe to the One-Call service.

Private utility locate services must be hired to locate service laterals and other buried utilities (e.g., on-site electric distribution lines, irrigation pipes) on private property.

Re-mark after 10 days or maintain as appropriate.

Utility Locate Checklist

☐ Attach map showing drilling and/or excavation sites and known utilities

☐ Attach copy of One-Call Utility Notification Ticket (http://www.searchandstatus.com/)

One-Call Utility Notification Ticket Number: _____

☐ Attach copy of Side Sewer Card (available for City of Seattle; check municipality for availability)

☐ Attach copy of Private Locate Receipt

☐ Photograph all excavation and/or drilling locations and download to project file

☐ Review utilities with Site Contact:

Name: _____ Phone: _____

Utilities and Structures

Utility Type	Utility Name	Public Utilities Marked (Y/N)	Private Utilities/Laterals Marked (Y/N)	Marking Method (Flags, paint on pavement, wooden stakes, etc.)
Petroleum product lines				
Natural gas line				
Water line				
Sewer line				
Storm drain				
Telephone cable				
Electric power line				
Product tank				
Septic tank/drain field				
Other				

Farallon Consulting, L.L.C.

Field Team Leader: _____ Date: _____

ONE-CALL UTILITY LOCATE REQUEST PROCEDURE

THE ONE-CALL UTILITY NOTIFICATION CENTER REQUIRES 48 HOURS NOTICE TO MARK UTILITIES BEFORE YOU CAN DIG OR DRILL

Washington: 1-800-424-5555
Oregon: 1-800-332-2344

Washington state law states that "before commencing **any** excavation," the excavator or driller must provide notice to all owners of underground utilities by use of the One-Call locator service, and that the excavator or driller shall not dig or drill until all known utilities are marked. To fully comply with the law, you **must** take the following steps:

1. **Call before you dig or drill:** Notify the One-Call Utility Notification Center (OCUNC) a minimum of 48 hours (two full business days) before digging or drilling. Provide the following **required** information:
    a. Your name and phone number, company name and mailing address, and Farallon Account Number 25999.
    b. The type of work being done.
    c. Who the work is being done for.
    d. The county and city where the work is being done.
    e. The address or street where the work is being done.
    f. Marking Instructions: "Generally locate entire site including rights-of-way and easements"

    Provide the following information if applicable or requested:
    a. The name and phone number of an alternate contact person.
    b. If the work is being done within 10 feet of any overhead power lines.
    c. The nearest cross street.
    d. The distance and direction of the work site from the intersection.
    e. Township, range, section, and quarter section of the work site.
2. **Record the utilities that will be notified:** OCUNC will tell you the utilities that are on or adjacent to the site, based on their database. Record the name(s) of the utility on the reverse side of this form.
3. **After the 48-hour waiting period, confirm that the utility locations have been marked:** Before digging or drilling, walk the site and confirm that the utility companies have marked the utility locations in the field.
4. **If a locate appears to be missing:** If a utility locate appears to be missing and the utility company has not notified you that there are no utilities in the area, call OCUNC and:
    a. Provide the OCUNC locate number.
    b. Clearly state which utility has not been marked. The call is being recorded.
    c. Ask for a contact person at that utility.
    d. Call the contact person for the missing utility locate: Determine why there is no utility locate in the field.
    e. Record the reason(s) for the missing locate(s): There are valid reasons that locates do not appear in the field (e.g., there are no utilities located on the site or the utility has been abandoned). However, IF THEY ARE LATE, **YOU MUST WAIT** TO DRILL OR DIG. If the utility fails to mark a locate within the required 48 hours (two full business days), the utility is liable for delay costs.
5. **Hand dig within 2 feet of a marked utility:** When digging or drilling within 2 feet of any marked utility, the utility must be exposed first by using hand tools.

Electric = **RED**	*Gas-Oil-Steam* = **YELLOW**	*Comm-CATV* = **ORANGE**	*Water* = **BLUE/PURPLE**	*Sewer* = **GREEN**	*Temp Survey* = **PINK**

WASTE INVENTORY TRACKING SHEET

Project Number: _____ **Page:** _____ **of**

Project Name: _____ **Generation Date:** _____

Project Address: _____ **Prepared By:** _____

Field Work Description: _____ **Date Waste Removed:** _____

Project Manager: _____ **Waste Transporter:** _____

Waste Disposal Location:

Unique Container ID	Container Size	% Capacity Used	Contents (Soil/GW/Decon Water)/ Origin (Boring or Well ID)	Date(s) Accumulated	Labeling (Contents Under Test/ Haz/Non-Haz/Other-Specify)	Sampled (Y/N)	Comments

NOTES: Contents should be specified and include identification of well/boring, media, source, depth of soil (if applicable), and any other helpful information.

Container ID should be unique when compared against other nearby containers. Special waste labels may include flammable, corrosive, dangerous when wet, and/or oxidizer.

Location of Drums (sketch or describe):

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APPENDIX C
STANDARD OPERATING PROCEDURES

HISTORICAL FEATURE
DECOMMISSIONING AND REMOVAL WORK PLAN
Block 79 East Property
701, 739, and 753 9th Avenue North
Seattle, Washington

Farallon PN: 397-035

STANDARD OPERATING PROCEDURE EQ-01
EQUIPMENT DECONTAMINATION PROCEDURES

PURPOSE AND APPLICATION

The purpose of this standard operating procedure (SOP) is to provide field personnel with the methodology for decontaminating sampling equipment during various field activities. The step-by-step guidelines provided in this SOP are to be followed by the field crew during all site visits, as applicable.

EQUIPMENT AND SUPPLIES/REAGENTS

The following equipment is necessary to properly decontaminate field equipment during various field tasks:

- Rinse water or distilled water.
- Deionized water.
- Liquinox or other phosphate-free detergent.
- Paper towels.
- Labeled squirt bottles.
- Long-handled hard-bristle brushes (for sediment and soil).
- Cotton swabs.
- Plastic sheeting, garbage bags, and aluminum foil (for sediment and soil).
- Core liner caps or plastic wrap and rubber bands (for sediment and soil).
- Extension arm for cleaning core liners (for sediment and soil).
- Plastic 5-gallon bucket.
- U.S. Department of Transportation-approved drum(s) for decontamination water unless other water-handling arrangements have been made. Separate drums are needed for liquid and solid wastes (see Farallon SOP WM-01, Field-Handling of Investigation-Derived Waste). Liquid wastes should not be added to drums containing solid wastes.

Dilute Liquinox with distilled water in a squirt bottle in accordance with the instructions on the Liquinox package, and label the bottle. Fill another squirt bottle with distilled water, and label the bottle.

FIELD EQUIPMENT TO BE DECONTAMINATED AFTER USE

Decontaminate the following field equipment at the conclusion of field work each day, in accordance with the procedures outlined in this SOP:

- Water-level meter.
- Horiba/YSI multiparameter probe.
- Bladder pump.
- Submersible pump.
- Sediment and soil collection and processing equipment.

WATER-LEVEL METER DECONTAMINATION

Decontaminate the water-level meter after measuring the water level at a monitoring well before moving to a new monitoring well, using the following procedures:

- Spray the bottom half of a paper towel with the diluted Liquinox solution, and the upper half with deionized water.
- Grip the measuring tape of the water-level meter with the paper towel in one hand with the Liquinox side down toward the monitoring well casing.
- Begin slowly reeling up the water-level meter while maintaining firm contact between the measuring tape and the paper towel.
- Ensure that no debris or contamination remains on the measuring tape of the water-level meter once it has been reeled up.
- Use a clean new paper towel for each successive decontamination of the measuring tape of the water-level meter.

HORIBA/YSI MULTIPARAMETER PROBE DECONTAMINATION

Decontaminate the Horiba/YSI multiparameter probe at the end of each workday or after sampling a monitoring well with high concentrations of contamination, using the following procedures:

- Remove the multiparameter probe from the flow-through cell, and thoroughly spray each component with deionized water.
- Use a cotton swab to gently clean around each sensor probe, ensuring that all contaminated water and material has been washed away.
- Refill the protective dissolved oxygen and pH probe caps with deionized water, and replace prior to storage.
- Once the multiparameter probe has been adequately cleaned, replace the protective shield, and return the probe to the case. If the device appears to be overly wet, allow it to air-dry with the case open.

- Do not use Liquinox to clean any probes on the Horiba multiparameter probe, as it may damage the device.

BLADDER PUMP DECONTAMINATION

Decontaminate the bladder pump after sampling a well and at the end of each workday, using the following procedures:

- After extracting the bladder pump from the well, break down the pump, remove and dispose of the used bladder, and spray each component with the diluted Liquinox solution, followed by deionized water.
- Wipe away any visible contamination or debris with a paper towel.
- Capture cleaning water in a liquid waste drum for proper disposal in accordance with Farallon SOP WM-01, Field-Handling of Investigation-Derived Waste.
- Ensure that all contamination and Liquinox solution is washed off all components before reassembling the device, installing a new bladder, and moving to sample a new well.

SUBMERSIBLE PUMP DECONTAMINATION

Decontaminate the submersible pump after purging water from any well, using the following procedures:

- After extracting the submersible pump from the well, thoroughly spray down the pump with the diluted Liquinox solution, followed by deionized water.
- Wipe away any visible contamination or debris with a paper towel.
- Purge clean water through the pump and tubing to ensure that contaminated water has been cleared from all lines.
- Capture cleaning water in a liquid waste drum for proper disposal in accordance with Farallon SOP WM-01, Field-Handling of Investigation-Derived Waste.

SEDIMENT AND SOIL SAMPLING AND PROCESSING EQUIPMENT DECONTAMINATION

Decontaminate sampling equipment used to collect and process sediment and soil samples, using the following procedures:

- Place contaminated equipment and decontamination tools on plastic sheeting.
- Thoroughly rinse all used equipment with distilled water in a 5-gallon bucket to remove excess sediment or soil.
- Pour one capful of Liquinox solution into a 5-gallon bucket filled with tap water or distilled water.
- Using a long-handled hard-bristle brush, thoroughly scrub the equipment with the Liquinox solution until no sediment or soil particles remain.

- Holding the equipment over a 5-gallon bucket, double-rinse the equipment with distilled water until no Liquinox solution remains. Do not allow clean equipment to come into contact with a contaminated surface.
- Drain the equipment and place it in a clean, dry place to prevent recontamination.
- If decontaminated equipment will not be re-used immediately, wrap stainless steel equipment (e.g., bowls, spoons) in aluminum foil with the dull side facing the equipment. Seal polycarbonate core liners with core caps or cellophane plastic. Rubber-band ends to ensure a proper seal.
- After decontamination has been completed, place disposable items into a garbage bag, and store decontamination water in a drum in accordance with Farallon SOP WM-01, Field-Handling of Investigation-Derived Waste.

STANDARD OPERATING PROCEDURE EQ-02
PHOTOIONIZATION DETECTOR CALIBRATION AND OPERATION

PURPOSE AND APPLICATION

The purpose of this standard operating procedure (SOP) is to provide field personnel with the information needed to properly use, operate, and handle MiniRAE Photoionization Detector (PID) Models 2000 and 3000. The PID is used as a field-screening instrument for measurement of total volatile organic (TVO) concentrations in air. Typical uses include air monitoring of the breathing zone for health and safety purposes, screening of groundwater and soil for TVO emissions, and monitoring of the headspace of a monitoring well. The PID is a highly sensitive instrument. MiniRAE Models 2000 and 3000 have a potential operating range of 0.1 to 15,000 parts per million (ppm) isobutylene equivalents, depending on the lamp used. The detection limit is 0.1 ppm hexane or isobutylene, with a response time of less than 3 seconds.

Operation and maintenance manuals specific to this equipment should be referenced as necessary. Two user manuals are kept in Farallon's PID case: the *MiniRAE 3000 Pocket Reference;* and the *MiniRAE 3000 User's Guide*. These manuals should always be stored in the PID case so they are available for reference.

The step-by-step guidelines provided in this SOP are to be followed by the field crew when monitoring concentrations of TVO compounds in the breathing zone, a soil sample, a water sample, or the headspace of a monitoring well.

EQUIPMENT

The following equipment is necessary to calibrate and operate the PID:

- The PID instrument;
- A calibration gas regulator and silicon tubing;
- Calibration gas containing approximately 100 ppm isobutylene; and
- A 110-volt battery charger.

PID CALIBRATION CHECK

PID calibration should be checked at the beginning of the day, and as needed if drift occurs (see "PID Drift or Other Change" section below). The instructions below are to be followed to check PID calibration (refer to pages 17 and 18 of the *MiniRAE 3000 User's Guide* for information regarding the connection between buttons and control functions):

- Turn on the PID by pressing [MODE]. Wait for the PID to proceed to the default display, and allow the instrument to warm up for 10 minutes in accordance with the manufacturer's instruction. The initial reading should be 0 or 0.1 part per million volume (ppmv).
- Connect the regulator to the gas cylinder, and connect the tubing to the regulator.

- Start the gas flow by pushing in the regulator knob and turning 90 degrees. Some gas will begin to escape.
- Connect the tubing from the regulator to the PID sensor tip. The PID reading should climb to 99 to 101 ppmv.
- When the PID reading reaches the maximum level displayed, turn off the regulator and disconnect the sensor tip. The reading should return to zero.
- If any of the readings predicted above do not occur, re-calibrate the PID or arrange for repair.

PID CALIBRATION

The instructions below are to be followed to perform a zero (fresh air) calibration and a span calibration on the PID (refer to pages 35 through 46 of the MiniRAE 3000 User's Guide for information regarding calibrations):

Zero Calibration (a zero calibration always should be performed prior to a span calibration):

- Turn the unit on by pressing [MODE] for approximately 1 second.
- Press and hold [MODE] and [N/-] simultaneously until you see the Password Screen.
- Input the password:
    - The default password is 0000.
    - Use the [Y/+] to increase the number value from 0 through 9.
    - Use the [N/-] to move the cursor to a different number slot.
    - Press [MODE] once you have input the password.
- Select "Calibration" by using [Y/+].
- Select "Zero Calib" by using [Y/+].
- Apply a fresh air source to the unit. Clean ambient air without detectable contaminants may be used as a fresh air source.
- Press [Y/+] to start the zero calibration. The zero calibration will take approximately 30 seconds to complete.
- The display screen will return to the Calibration menu when the zero calibration is complete.
- Record the values read by the PID in a calibration book or in the Log Field Book.

Once the zero calibration is complete, the unit automatically returns to the Calibration menu.

If the PID does not read 0.0 ppmv following the zero calibration, repeat the zero calibration procedure. If the PID fails both attempts to zero calibrate, move on to span calibration.

SPAN CALIBRATION

- Press [N/-] to scroll down to "Span Calib."
- Press [Y/+] to select "Span Calib."
- Select the proper calibration gas. Ensure that the calibration gas and the span value on the unit's display screen have the same TVO concentration.
- Connect the regulator to the gas cylinder, and connect the tubing to the regulator.
- Press [Y/+] to begin the span calibration.
- Immediately apply the correct calibration gas to the unit's probe by turning the regulator knob 90º in either direction. The span calibration will take approximately 30 seconds.
- The calibrated value should be +/- 2 percent of the concentration indicated on the calibration gas canister. Once the span calibration is complete, the unit will automatically return to the calibration menu.
- If the calibrated value is 2 percent greater than the concentration indicated on the calibration gas canister, repeat the span calibration procedure.
- Press [MODE] twice to navigate back to the main display.
- When calibrating the PID with isobutylene, record values read by the PID in a calibration book or in the Log Field Book.
- If the PID did not initially calibrate using the zero calibration mode, re-attempt to calibrate the PID using fresh air.

If the PID does not calibrate using the span calibration gas, call and update the Project Manager on the status.

PID DRIFT OR OTHER CHANGE

PID drift commonly is a failure of the instrument to return to zero after TVO concentrations dissipate. A failure to return to zero usually reflects inaccuracy at the upper end of the instrument's detection range. Several situations can cause drift, including soil or water in the tip of the probe, soil or water in the sensor filter, or a change such as tightening or loosening the probe tip assembly since the instrument was last calibrated. The degree of drift from the initial daily calibration can be checked by exposing the PID to the calibration gas (see the "PID Calibration" section above). Re-calibration serves little purpose until the cause of the drift is determined.

If you determine that PID drift is occurring, complete the following actions:

- Unscrew the probe from the PID unit;
- Inspect the probe and the top of the unit for soil or moisture;
- Carefully remove any soil or moisture from the probe and/or unit by air drying;

- Replace the sensor filter on the probe with a new, unused sensor filter;
- Screw the probe back on the unit; and
- Apply Span Calibration gas to test the accuracy of the PID unit.

PID OPERATION

The instructions below are to be followed for PID use to screen soil and groundwater for TVO concentrations, to monitor the breathing zone for health and safety purposes, and to monitor monitoring well headspace:

- Connect the PID sample probe with filter to the PID hand-held air monitor.
- Turn on the PID by pressing [MODE]. Wait for the PID to proceed to the default display, and allow the instrument to warm up for 10 minutes in accordance with the manufacturer's instructions.
- **CAUTION!** Do not seal the soil in a plastic bag for longer than 5 minutes when conducting soil screening to avoid false readings due to moisture build-up (in wet situations, use the filter on the end of the sensor tip). Pierce the plastic bag with a clean tool, and immediately insert the sensor tip, quickly establishing a tight seal. The meter should react rapidly. Record the maximum value displayed within 30 seconds.
- To monitor groundwater and soil for TVO emissions, place the probe inlet near the groundwater or soil surface, and read the meter display showing detected concentrations. Do not allow water or soil to be sucked into the instrument.
- To monitor the breathing zone for health and safety purposes, allow the PID to monitor air quality at the breathing zone, chest, or face level, and read the meter display showing detected concentrations.
- Monitor the headspace of a monitoring well directly after the well has been opened. Place the probe inlet directly above the polyvinyl chloride well casing or tubing that is associated with a dedicated pump in the well. Read the meter display showing detected concentrations.
- Ensure that the PID is kept dry while in use. Humidity or moisture from rain can cause large fluctuations in PID readings, and can damage the instrument.
- If the PID displays erratic readings, it is possible that either moisture or dirt is in the probe, or dirt has collected in the filter. If this occurs, clean and dry the sample probe (possibly by placing it near a running heater in a vehicle), and replace the filter if necessary.

DOCUMENTATION

Document the PID measurements for all monitoring events on field forms and in a detailed field notebook, and record observations of varying weather conditions such as temperature and humidity fluctuations.

REFERENCES

PE Photovac Air Monitor/Portable Photoionization Detector Model 2000/3000 Manuals.

RAE Systems. 2010. *MiniRAE 3000 Pocket Reference.* PN: 059-4030-000-D. August.

———. 2010. *MiniRAE 3000 User's Guide.* P/N 059-4020-000. August.

STANDARD OPERATING PROCEDURE GN-01
FIELD NOTE PROCEDURES

PURPOSE AND APPLICATION

The purpose of this standard operating procedure (SOP) is to provide field personnel with the information needed to document site and sampling activities during field work. The step-by-step guidelines provided in this SOP are to be followed by the field personnel during field work.

GENERAL FIELD NOTE INSTRUCTIONS

- Use a blue or black pen.
- Always document time in military time.
- Record your full name and the names of other Farallon employees present. Initials of personnel can be used after the full names have been provided in the field notes.
- Don't leave line spaces between field note entries.
- Keep handwriting neat.
- Be concise.

ITEMS TO INCLUDE IN FIELD NOTES

At Start of Workday:

- Document when and where you started the field day and when you arrived at the site.
- Note any stops along the way to the site.

Upon Arrival at Site:

- Note the reason for the site visit/site work.
- Document the weather on page 1, and throughout the day if the weather changes.
- Document the time personnel arrive at the site and the name of the company/agency they are affiliated with.
- Document the time subcontractors arrive, the tasks they are conducting, and the time they leave the Site.
- Conduct the Health and Safety (H&S) meeting, ensure all participants sign the H&S form, and include the signed H&S form in the field notes.
- Calibrate equipment: document equipment model number/serial number, calibration method, and results. Be specific (e.g., "Calibrated Horiba for pH using 4.0 standard." "Calibrated PID using 100 ppm isobutylene span gas and ambient air as zero gas."). Note whether the instrument is Farallon's or a rental. If using a rental, include in the field notes the calibration sheet that should have come with the equipment. If using two sets of

equipment, note on the field forms which equipment was used for each location. For example, label "Horiba 1" and "Horiba 2" on the groundwater sampling sheets, and document the serial numbers of the instruments in the field notes. Make sure to document the calibration results for Farallon equipment in the Rite-in-the-Rain notebook kept in each field equipment case.

- Document when work starts at a specific task location (e.g., well or boring), and document what equipment Farallon or the subcontractors are using at that location.
- Measure out and record the sample locations (using a rolling wheel, or GPS if available), and mark utilities on a field map if applicable.
- If media samples will be collected, complete the appropriate documentation form, or record the information in the field notes. For example, record field sampling methods (e.g., grab, composite), the type of media (e.g., soil, groundwater, stormwater), the time the sample was collected, sample location and ID, analytical method(s), the laboratory conducting the analysis, the size of the sample container, the number of containers used, and the preservative included in the sample container. If a composite sample is collected, record how many composite points make up the sample, and document where the composite samples were collected.
- If multiple samples are collected using the same methods and the same type of sample containers, simply document that a sample was collected the same as previous samples.
- Document when work is complete at each location.
- If conducting groundwater monitoring, note the condition of monitoring well monuments (e.g., bolts missing, gasket needed).
- Throughout the workday, note any relevant information (e.g., QC-sampling discrepancies, unexpected conditions, abnormal sampling events).

At End of Workday:

- Decontaminate equipment and note the decontamination method (e.g., Alconox and towels).
- Review the field notes, and complete sketches of any relevant features and sample locations if necessary.
- Record whether wastes were generated. If so, record how much was generated, whether the waste was sampled, and where the waste is stored.
- Place an "Analysis Pending" label on drums of waste, and fill out the label completely.
- Complete a drum inventory sheet and note the drum/container sizes and how much waste was accumulated.
- Document when you left the site;

- Document when you returned to the office or when the field day ended.
- Note any additional work performed after returning to the office (e.g., finished field notes, downloaded field photos).

Make sure to include any of the following forms relevant for the type of field work conducted:

- Daily Field Notes
- Health and Safety Meeting form
- Water Level Summary form
- Low Flow Well Purging and Sampling Data form
- Boring and/or test pit logs
- Monitoring Well Construction Data form
- Soil Sample Data form
- SVE Monitoring form
- Any site-specific operation and maintenance or pilot test forms
- Elevation Survey Data form
- Utility Clearance Log
- Waste Inventory Tracking Sheet
- Copy of the laboratory Chain of Custody form for any samples collected
- Copies of subcontractor daily log sheets (e.g., utility locate, drilling)
- Copies of rental equipment calibration sheets
- Near Miss form (if applicable)
- Incident Report form (if applicable)

Assemble all field forms used each day, scan, save to the electronic project Field Notes folder, and give the hard copy of the forms to the Project Manager.

Refer to the Farallon Field Documentation Checklist and the *Doc Reqs by Field Task list.*

STANDARD OPERATING PROCEDURE (SOP) GENERAL-02

UTILITY LOCATE

PURPOSE AND APPLICATION

The purpose of this SOP is to provide Farallon Consulting, L.L.C. (Farallon) personnel with the specific information needed to identify and locate utilities on sites where drilling or excavation activities will occur. Excavation is defined by Section 20 of Chapter 19.122 of the Revised Code of Washington (RCW 19.122.020) as "any operation, including the installation of signs, in which earth, rock, or other material on or below the ground is moved or otherwise displaced by any means." For the purposes of this SOP, the excavation area refers to the area of an excavation or a perimeter around all proposed borings, test pits, soil gas sampling locations, and subslab soil gas sampling locations. Identifying utilities within the boundaries of a proposed excavation area prior to any digging is required by law and is necessary for the safety of Farallon personnel and contractors.

The guidelines provided in this SOP are to be followed by Farallon personnel who coordinate utility locating, mark locate boundaries, and/or observe field work that involves any type of excavation.

EQUIPMENT AND SUPPLIES

The following equipment and supplies are necessary to arrange and conduct utility locating:

- A map of the site with the proposed excavation area(s);
- Readable side sewer card figures, if applicable;
- Geographic information system (GIS) utility figures, if applicable;
- Readable American Land Title Association (ALTA) survey figures, if applicable;
- Any previous utility figures associated with the site;
- White marking products (e.g., paint, flags, stakes, grease marking pen, tape, chalk);
- Materials necessary to provide required documentation (e.g., Field Report form, camera, measuring wheel, global positioning system); and
- Personal protective equipment (PPE) as described in the site-specific Health and Safety Plan, or Level D PPE at a minimum.

PROCEDURES

The following utility locating procedures have been developed for use before excavation occurs on a site. The procedures are divided into the following four parts:

- Call Before You Dig System;
- Private Utility Locating Services;
- Hand-Clearing Proposed Excavation Areas; and
- Maintaining Public Utility Locate Marks.

The Project Manager should discuss the scope of work, details of the project location, and any essential information with the project field team before any of the procedures described below commence. When practicable, an on-site kickoff meeting involving a member of the field team and the Project Manager should be conducted to discuss the work to be performed, mark the boundaries of the excavation area, and mark potential boring locations, if applicable.

Call Before You Dig System

According to RCW 19.122.030, excavators are required to mark the boundary of a proposed excavation area using white marking products. Marking products include paint, flags, and stakes. Boundary marks should conform to the following guidelines:

- A continuous line, hashed line, dots, or corner marks with arrows are acceptable ways to mark the boundary.
- Flags and stakes can be used if paint is not adequate.

The location(s) of the proposed excavation area(s) must be reviewed to verify that no visible utilities that would interfere with the proposed excavation area(s) are present. If utilities are present, the Project Manager and field personnel should communicate the changes to the excavation that are area necessary before the boundaries are marked with white paint.

After marking the boundaries of the proposed excavation area, Farallon personnel must provide notice of the scheduled excavation to the owner/operators of buried utilities at least 2 but no more than 10 business days in advance by calling 811 or 1-800-424-5555, or using the online tool at www.callbeforeyoudig.org. Use of the online tool is preferred.

A map with the excavation area boundaries depicted and/or photos of the white paint marks is helpful in conveying the scope of work to the Call Before You Dig service.

The following information should be available to provide the Call Before You Dig service at the time of initial contact:

- Scope of work, including the start date and time.
- Contact information for the Project Manager and a field person able to answer questions from public utility locators regarding project details.
- Site address, township/range/section quarter, and name of property owner.

Once the Call Before You Dig system has been notified of the upcoming work, the system provides a ticket number, which

- Should be referenced whenever the Call Before You Dig service is contacted about the job.
- Provides proof that the Call Before You Dig system was notified prior to excavation. Public utility locators, inspectors, and law enforcement personnel may ask for the ticket number.
- Should be supplied to any subcontractors doing work on the site for reference when contacting the system for their own ticket number.

Call Before You Dig personnel will provide a list of public utilities present on the site, and will notify public utility operators of the planned work.

Public utility operators have 2 full business days after the day notification was received to locate and mark their lines, or to provide reasonable information on lines that they are not able to locate. The day notice is given is not included as 1 of these 2 days. Therefore, if excavation work is planned to start on a Monday, for example, the Call Before You Dig system must be notified by Wednesday the week before.

Two full business days must elapse between Call Before You Dig notification and the start of excavation. No excavation is to take place until all known utilities are marked or otherwise accounted for with information provided by the facility operator.

Locators mark their lines with colored hash marks. The American Public Works Association determines the colors to be used to denote different kinds of lines:

Red: Power Lines and Cable	Yellow: Gas, Oil, Petroleum
Orange: Telephone and Cable	Blue: Drinking Water
Green: Sewer (Storm and Sanitary)	Purple: Non-Potable Water
Pink: Survey Marks	White: Excavator Marks

Public utility operators are required to mark their lines only to the meter. Utility lines located beyond the meter are the responsibility of the property owner. Public utility operators should indicate by marking if no public utilities are present.

Public utility locators are required to mark their lines with reasonable accuracy. According to RCW 19.122.020, "reasonable accuracy means location within twenty-four inches of the outside dimensions of both sides of an underground facility."

At this time, public utility companies are not required to mark abandoned or deactivated lines in Washington.

An individual not following the protocols established by the Call Before You Dig system can be held liable for up to three times the cost to repair a utility line damaged during excavation.

Records of ticket numbers and communications with the Call Before You Dig service should be stored in the project folder and supplied to on-site project personnel.

Before any excavation work is started, Farallon personnel should verify that all public utility marks are present on the site. The public utility company (companies) listed on the Call Before You Dig system ticket should be contacted if marks for that utility (utilities) are not present.

Private Utility Locating Services

After the public utility companies have marked their lines and before excavation begins, it is standard practice to have a private utility locating service clear areas that will be excavated.

Private locates generally are scheduled for the day before or the morning of the start of excavation.

Areas where excavation will occur must be cleared for conductible utilities by a private locator. Depending on the nature of the site and the proximity of utility lines, the private locator may also mark non-conductible utilities.

If possible, the excavation contractor should be on the site during the private utility locating to verify with the private locator that all proposed excavation areas are accessible.

When working with private utility locators, Farallon personnel should:

- Study existing figures of the site, noting the locations of known utilities.
- Use available side sewer cards or geographic information system utility figures to verify utility locations at the site.
- Verify that all public utilities have been marked by physically verifying that colored paint marks are present for all of the public utility companies listed on the One Call Before You Dig ticket. If any public utilities have not been marked, the utility company must be contacted and requested to mark the area, or to provide confirmation that the area is clear of their utility.
- Discuss the scope of work/excavation areas with the private locator.
- Document the name of the locating company and the name of the locator.
- Observe the locator clear the excavation area(s).
- Document the locate marks with photos, and note any uncertainties in the Field Report form.
- Identify the locations of shut-off valves for utilities such as water and natural gas.
- Contact the Project Manager or Principal to discuss relocating the excavation area if a proposed excavation area is in conflict with a utility identified by the private locator.
- Sign the locator’s paperwork, if necessary, and depart the site if no additional field work is to be performed that day.

Private location of conductible utilities should sweep the excavation area in two perpendicular directions.

Private location of non-conductible utilities (typically storm and sanitary sewer) can use either a probe or a camera for accessible lines. Appropriately colored paint marks are applied by the private locator based on a signal sent from the probe or camera. For inaccessible lines, a ground-penetrating radar or magnetometer can be used to approximate the line locations. Marks based on this method should be considered approximate.

Hand-Clearing Excavation Areas

Prior to conducting certain excavation activities, excavators will clear the proposed excavation area to verify that no utilities are present. This can be accomplished through use of an air knife/vacuum truck, post-hole digging, hand-augering, or use of other hand tools that allow the excavation location be explored sufficiently to verify that no utilities are present. Farallon Project Managers will confirm the method of clearing and depths with the field team before the excavation work is performed. arallon Project Managers also need to discuss shallow soil sampling needs with the field team if clearing activities are being performed. Clearing activities should be conducted according to the following guidelines:

- Hollow-Stem Auger Drilling: Hand-clear to a minimum depth of 5 feet below ground surface (bgs) using an air knife/vacuum truck whenever possible. Alternative methods such as post-hole digging or hand-augering also may be used.
- Sonic Drilling: Hand-clear to a minimum depth of 5 feet bgs using an air knife/vacuum truck whenever possible. Alternative methods such as post-hole digging or hand-augering also may be used.
- Geoprobe Drilling: Clearing activity requirements are dependent on known utilities and results of the public and private utility location procedures completed above. Hand-clear using a post-hole digger or hand-auger to a maximum depth of 5 feet bgs is necessary. An air knife/vacuum truck may be used to hand clear each boring location to a maximum depth of 5 feet bgs, if available.
- Test Pit Excavation: No hand-clearing is necessary. Excavation contractors should be directed to dig cautiously in the upper 5 feet bgs in the event an unknown utility is present. A test pit excavation or regular excavation using machinery (e.g., track hoe, backhoe) should include using a spotter to watch for unidentified utility lines. Ideally, the spotter should be provided by the excavation contractor.
- Rotary Hammer for Soil Gas Sampling: No hand-clearing is necessary.
- Rotary Hammer for Subslab Soil Gas Sampling: No-hand clearing is necessary.

Some drilling contractors require that a utility line be exposed prior to drilling if the proposed drilling location is within a certain distance of the utility line. Farallon personnel should confirm drilling contractor requirements prior to conducting drilling activities.

If a utility line is encountered during clearing, excavators should verify that the utility has not been damaged, and Farallon personnel should document the encounter on the Field Report form with photos and details. RCW 19.122.020 states that “damage” includes the substantial weakening of structural or lateral support of an underground facility, penetration, impairment, or destruction of any underground protective coating, housing, or other protective device, or the severance, partial

or complete, of any underground facility to the extent that the owner of the affected facility determines that repairs are required. The Project Manager or Principal should be notified immediately if a utility line is encountered during hand-clearing, and an alternate location will be proposed. A hand-cleared area having an exposed utility line should be backfilled with a bentonite seal and finished to match existing grade.

Maintaining Public Utility Locate Marks

According to RCW 19.122.030, "public utility locate marks expire 45 days from the date the excavator provides notice," and "it is the responsibility of the excavator to maintain the public utility marks for 45 days, or for the length of the project–whichever is shortest. In any case, the public utility locate marks expire after 45 days."

Locate marks can be maintained digitally through both photos and figures drawn to scale.

Locate marks can be maintained in the field using white paint. White paint can be applied between original hash marks, on either side of the hash marks, or on both ends. Offset paint or staking can be used if placed a uniform distance from the original marks with a clear indication of the direction and distance from the original marks. The original marks should not be painted over, and white paint should never be applied over colored paint. White marks should include a letter identifying the type of buried line.

UTILITY LINE DAMAGE

A utility line does not need to be ruptured or severed to be considered damaged. Scratching or denting a utility line or its protective tape also is considered damage, as the integrity of the line may have damaged even if the damage does not appear to be significant. Before excavation work begins, shut-off valve locations for applicable utilities should be documented. If a utility is believed to be damaged, the utility should be shut down if practicable and safe to do so. According to RCW 19.122.053, "all facility operators and excavators who observe or cause damage to an underground facility must report the damage event to the Washington State Utilities and Transportation Commission."

If a utility line is hit and public safety is a concern, 911 should be the first call made after the immediate area has been evacuated. If a utility line is hit and the public is not at risk, the field team should notify the Project Manager, who will notify the Principal and the corporate Health and Safety Coordinator immediately. The Project Manager should then contact the utility that owns the damaged line, and report to the field team any instructions issued by the utility owner, and an expected timeframe for arrival of a utility owner representative at the site. Repairs to a utility line will not be attempted by Farallon personnel or contractors.

Damage must be reported through the Common Ground Alliance Damage Information Reporting Tool website, hosted by the Washington State Utilities and Transportation Commission: http://www.utc.wa.gov/publicSafety/pipelineSafety/Pages/Damagereportingrequirements.aspx

Access to damaged utility lines should be maintained to allow inspection by the utility company. An exposed utility should not be backfilled or patched until instruction to do so has been provided by the Project Manager or Principal.

DOCUMENTATION

Farallon personnel should document in the Field Report form the work performed and methods used by private utility locators, and photos from multiple angles with good reference points for each utility line in the excavation area(s).

REFERENCES

Washington Utilities Coordinating Council. 2014. *Guide to Safe Digging, Washington State Law and Industry Best Practices.*

STANDARD OPERATING PROCEDURE GN-03
SAMPLE SHIPPING

PURPOSE AND APPLICATION

The purpose of this standard operating procedure (SOP) is to provide field personnel with the methodology to ensure consistent and good quality sample shipment. This SOP is a supplement to site-specific work plans.

RESPONSIBILITIES AND QUALIFICATIONS

All personnel performing these actions are required to be familiar with the procedures described herein. Personnel performing or overseeing procedures described herein must also be familiar with health and safety requirements in the project-specific Health and Safety Plan (HASP).

EQUIPMENT AND SUPPLIES

Supplies needed to ship samples:

- Coolers – Appropriate number and size
- Custody Seals
- Bubble Wrap
- 1 Gallon Ziplock bags for Ice and Samples
- Ice
- Samples and COC
- Shipping Labels
- Heavy Duty Shipping Tape

PROCEDURES

It is critical to prepare samples for shipment at the end of the day to minimize the amount of time the samples will have to spend on ice in transport. Evaluate number of samples and coolers needed to ship the samples collected. If samples are in glass containers, consider shipping additional coolers to allow more room for bubble wrapping and padding sample containers.

Remember to provide enough ice to meet preservation requirements, the general ice to cooler rule is 20 pounds of ice per cooler. Line the cooler with a clean trashbag prior to packing, double bag all ice using 1-gallon ziplock bags and close the trashbag last by "goose necking" and sealing with duct tape to prevent leakage.

The following procedures (representing the minimum shipping and handling requirements) will be used for sample packaging:

- A sample label will be affixed to the corresponding sample container at the time of sample collection.
- Bubble-wrap bags or an equivalent will be used to protect sample containers.
- Sample containers will be placed into a cooler and checked against the Chain of Custody form to ensure that all samples are listed and are placed into the correct cooler.
- One copy of the Chain of Custody form will be detached and retained by the Farallon field personnel.
- Remaining paperwork will be sealed in a resealable plastic bag and taped to the inside of the cooler lid.
- One to three resealable bags will be filled with ice and/or a chemical equivalent and included in the cooler. Ice will be double-bagged in heavy-duty bags.
- The cooler will be sealed with a chain-of-custody seal and taped shut using strapping tape.
- The laboratory address will be affixed to the cooler.
- Extraneous stickers will be removed from the cooler.
- The cooler will be examined to ensure that Farallon's return address is affixed.

Upon transfer of the samples to laboratory personnel or arrival of the samples at the laboratory facility, the laboratory will assume responsibility for custody of the samples.

Laboratory personnel will document the status of shipping and handling containers and will adhere to standard chain-of-custody procedures to track each sample through all of the stages of laboratory processing.

DOCUMENTATION

Retain a copy of the chain-of-custody to be scanned into the project files. List the project number and task number on the shipping label. Scan a copy of the receipt and send to the administrative staff.

STANDARD OPERATING PROCEDURE SL-02
EXCAVATION SOIL SAMPLING

1.0 PURPOSE AND APPLICATION

The purpose of this standard operating procedure (SOP) is to provide field personnel with technical guidance and the methodology to ensure consistent and representative collection and documentation of soil samples from excavations and test pits. This SOP is a supplement to site-specific work plans, and should be used in conjunction with other Farallon SOPs.

2.0 RESPONSIBILITIES AND QUALIFICATIONS

All personnel performing these actions are required to be familiar with the procedures described in this SOP. Personnel overseeing excavation and test pit activities must be familiar with the health and safety requirements presented in the project-specific Health and Safety Plan (HASP) and with local, state, and federal regulations governing excavations.

3.0 RELATED STANDARD OPERATING PROCEDURES

The following SOPs are referenced herein and are intended for use with this SOP:

- SOP EQ-01 Equipment Decontamination Procedures;
- SOP EQ-02 Photoionization Detector Calibration and Operation; and

4.0 EQUIPMENT LIST

The following materials and equipment may be needed for collection of soil samples from an excavation or a test pit:

- Documentation supplies: sample labels, site figure(s), Field Report forms, Log of Test Pit forms, Soil Sample Data Log forms, Chain of Custody forms.
- Digital camera.
- Spatial measurement equipment: Global Positioning System (GPS) unit, measuring wheel, tape measure.
- Personal protective equipment (PPE) as described in the site-specific HASP.
- Field-screening equipment: photoionization detector (PID) to monitor and record soil headspace readings, a sheen pan, water.
- Soil sampling equipment: stainless steel spoons/hand trowels, stainless steel mixing bowl, resealable plastic bags, laboratory-provided certified pre-cleaned sample containers.
- Decontamination equipment as specified in Farallon SOP EQ-01, Equipment Decontamination Procedures.

- Sampling-support equipment: sample coolers, double-bagged ice, bubble wrap, clear tape, duct tape, heavy resealable plastic bags, razor knives, garbage bags, paper towels, distilled water, nitrile gloves, plastic sheeting, sample table.

5.0 PROCEDURES

The following soil sampling procedures have been developed for use during excavation field activities. The specific equipment used is to be recorded on the Soil Sample Data Log form and the Field Report form. For excavations less than 4 feet below ground surface (bgs), soil samples will be collected using hand tools. For excavations greater than 4 feet bgs, soil samples will be collected using a backhoe bucket.

Personnel will under no circumstance enter excavations or trenches deeper than 4 feet bgs unless the side slopes are stepped, sloped, or stabilized by shoring in accordance with Occupational Safety and Health Administration (OSHA) excavation standards, as established in Subpart P of Part 1926 of Title 29 of the Code of Federal Regulations.

Setup

The setup instructions below are to be followed at the excavation site:

- Don appropriate PPE as described in the site-specific HASP.
- Check all sample locations to confirm that all known utilities and product/other lines have been clearly marked, and no overhead obstructions are present in the work area.
- Delineate an exclusion area adjacent to the excavator for use in collecting and logging soil samples from the excavation area or the excavator bucket. Lay plastic sheeting on the sample table to keep the sampling surface clean, and to prevent potential cross-contamination between samples. Designate clean areas for decontaminated sampling equipment and pre-cleaned soil sample containers.
- Set up 5-gallon buckets for use in decontaminating soil sampling equipment between soil samples. Refer to Farallon SOP EQ-01, Equipment Decontamination Procedures.
- Calibrate the PID to monitor headspace for selected soil samples. Refer to SOP EQ-02, PID Calibration and Operation. Collect headspace readings for individual soil samples by placing the PID probe into a sample jar or a heavy resealable plastic bag containing a portion of a soil sample. Record the reading on the Soil Sample Data Log form.

Sample Collection and Screening

The instructions below are to be followed for soil sample collection:

- Don a new pair of nitrile sampling gloves for each individual soil sample collected to avoid potential cross-contamination from the prior sample and/or contamination of the sampling equipment.

- Decontaminate all non-dedicated sampling equipment before collection of the initial sample and before collection of each additional sample. It is not necessary to decontaminate the backhoe bucket if the soil samples are collected from freshly excavated soil in the center of the backhoe bucket rather than from soil in direct contact with the backhoe bucket or teeth.
- Use PID readings and visual and olfactory soil indicators to assist during soil sample collection.
- Collect the soil sample from the excavation or the backhoe bucket using the stainless steel spoon and bowl.
- Immediately transfer the soil sample to a laboratory-provided certified pre-cleaned sample container(s) using a decontaminated stainless steel spoon. Fill the container(s) completely to the top to minimize headspace, and verify that the sample container threads are free of soil/debris to ensure that the lid will seat securely. Label each sample container and place into a sample cooler. Record sample information on a Chain of Custody form, a Soil Sample Data Log form, and a Field Report form.
- Use the Soil Sample Data Log form to record the sample location, date, identification, depth, time of collection, observation of staining (yes/no), odor (yes/no), sheen (yes/no), and any pertinent comments.
- Retain a portion of the sample in a heavy resealable plastic bag or a glass sample jar to measure headspace using the PID. Wait approximately 10 minutes before taking the measurement for headspace analysis using the PID. Insert the PID probe tip into a small opening in the top of the bag, and record the PID units on the Soil Sample Data Log form.
- Use the Log of Test Pit form to record the lithology of the test pit from the ground surface to the total depth of the excavated test pit. The lithology should be described in accordance with the Farallon Standard Practice for Description and Identification of Soil: Visual-Manual Procedure, presented in the Technical Memorandum Regarding Farallon Standard Practice for Description and Identification of Soil, Visual-Manual Procedure, prepared by Farallon (2007).
- Note the location and depth of any utilities present in the test pit, including piping diameters and material types. Note the depth to water, if present, including any seepage observed. Note whether sidewalls of the excavation or test pit are stable or readily cave (estimation of soil density).
- Use a camera to create a photographic log of the excavation or each test pit and note on the Field Report form the sequence of photos taken.
- Refer to the project work plan or contact the Farallon Project Manager regarding backfilling procedures. The excavation may be backfilled using excavated material or clean fill, depending on logistics, field-screening evidence of contamination, and project objectives.

DOCUMENTATION

The instructions below are to be followed to document the sampling:

- Document soil sampling activities on the Log of Test Pit form, the Soil Sample Data Log form, the Chain of Custody form, and the Field Report form.
- Record the location of each sample collected from the excavation using a GPS unit or measurements from a fixed reference point. Record the location and depth bgs on a site figure as part of the Field Report form.
- Upon completion of the excavation, measure the horizontal and vertical limits of the excavation from an on-site permanent datum using the GPS unit, a tape measure, and a measuring wheel.

REFERENCES

Farallon Consulting, L.L.C. (Farallon). 2007. Technical Memorandum Regarding Farallon Standard Practice for Description and Identification of Soil, Visual-Manual Procedure. To Farallon Staff. September 28.

U.S. Department of Energy. 1990. *Quality Control Requirements for Field Methods*. DOE/HWP-69/RI. July.

U.S. Environmental Protection Agency. 1987. *A Compendium of Superfund Field Operation Methods*. EPA/540/P-87/001a. August.

STANDARD OPERATING PROCEDURE WM-01
FIELD HANDLING OF INVESTIGATION-DERIVED WASTE

PURPOSE AND APPLICATION

The purpose of this standard operating procedure (SOP) is to provide field personnel with the methodology for containerizing, labeling, and tracking investigation-derived waste (IDW), and for exchanging information with the Project Manager. IDW may include soil cuttings, purge water, development water, and/or decontamination water.

This SOP has been developed in compliance with Washington State Dangerous Waste Regulations (Chapter 173-303 of the Washington Administrative Code), Oregon Hazardous Waste Management Rules (Division 100 of Chapter 340 of the Oregon Administrative Record), Environmental Health Standards for the Management of Hazardous Waste (Division 4.5 of Title 22 of the California Code of Regulations), and the U.S. Environmental Protection Agency Resource Conservation and Recovery Act (Parts 239 through 282 of Title 40 of the Code of Federal Regulations).

EQUIPMENT AND SUPPLIES/REAGENTS

The following equipment is necessary to properly containerize, label, and track IDW:

- U.S. Department of Transportation-approved drum(s) constructed of a material that does not react with the contaminants of concern for the project. Farallon typically uses lined open-top steel drums. Use a polyethylene drum for a material suspected to be corrosive.
- Labels appropriate to the characteristics of the IDW as indicated by the Project Manager:
    - Non-Hazardous Waste Labels: For IDW known to be nonhazardous based on previous data and waste profiles.
    - Hazardous Waste or Washington State Dangerous Waste Labels: For IDW known to be hazardous/dangerous based on previous data and waste profiles.
    - On Hold Pending Analysis Labels: For waste not previously characterized, pending receipt of analytical results. On Hold Pending Analysis labels are temporary, and should be replaced with the applicable waste label once the waste has been characterized.
    - Major risk labels associated with the waste characteristics.
- Waste Inventory Tracking Sheet.
- Grease marking pencil or paint pen.
- Indelible ink pen.
- Crescent wrench, speed wrench, socket wrench, or other hand tool to seal the drum(s).

- Sampling supplies, if needed, including:
    - Stainless steel or plastic bowls and spoons for homogenizing soil and/or solids samples, depending on the analysis to be performed;
    - Glass or stainless steel container for homogenizing liquid samples, depending on the analysis to be performed; and
    - Stainless steel hand-auger or a glass tube, depending on the medium being sampled (i.e., soil/solids or liquid).

PROCEDURES

Follow the instructions below to inspect, label, and inventory IDW drums, and to containerize IDW:

- Inspect new drums brought to the site to ensure that they do not have dents or corrosion, and are in good condition. Lined or coated drums are preferred.
- Inspect drums remaining at the site from previous project work. Notify the Project Manager if a drum is leaking, damaged, or improperly labeled.
- Place soil and solids into separate drums from those containing liquids such as purge water, development water, and decontamination water. Do not add liquid IDW to drums containing soil or solids. Do not fill drums containing liquid IDW above 85 percent capacity, particularly in areas known to reach freezing temperatures.
- Discuss with the Project Manager whether chlorinated solvents or other contaminants of concern detected in areas of the site would cause IDW from that area to be characterized as hazardous/dangerous waste. Hazardous/dangerous waste should be drummed separate from nonhazardous/dangerous waste, where possible, to minimize the amount of hazardous/dangerous waste generated.
- Use a grease pencil or paint pen to clearly mark the lid and the label of each drum with a unique identifier such as a number or a letter. Verify that no two drums have the same identifier marked on the lid or label, including drums remaining from previous project work.
- Inventory each Farallon-generated drum and its contents on a Waste Inventory Tracking Sheet.
- Track any waste added to an existing drum on a Waste Inventory Tracking Sheet.
- Label each drum with a completed Non-Hazardous Waste, Hazardous Waste/Washington State Dangerous Waste, On Hold Pending Analysis, or other appropriate waste label. List the client's name as the Shipper or Generator, and the accumulation start date as the date when waste was first placed into the drum. If waste was added to an existing drum, add that date to the accumulation dates on the drum label. If the waste in the drum has been designated as hazardous/dangerous, add a major risk label(s) pertaining to the waste characteristics associated with that designation (e.g. flammable, reactive, corrosive,

toxic). Consult the Project Manager with questions about appropriate major risk labels. All labels should be placed with the top of the label toward the top of the drum. Do not place a drum label sideways or upside down.

Use care when drumming, labeling, and tracking IDW. Mistakes in the disposal of waste can result in serious legal and financial repercussions for Farallon and the client.

DRUM SAMPLING

Sampling and analysis of wastes for hazardous/dangerous waste characterization purposes is to be conducted in accordance with U.S. Environmental Protection Agency Publication No. SW-846, *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*. Samples collected in California for hazardous waste characterization are to adhere to the requirements specified in California Code of Regulations Sections 66261.21 to 66261.24 of Title 22, Characteristics of Hazardous Waste. Discuss with the Project Manager the specific analyses to be performed prior to sample collection. The instructions below are to be followed for drum sampling, using composite sampling techniques to sample soil, solids, and liquid wastes:

- Collect soil/solids samples from various locations and depths in the drum using a hand-auger or other decontaminated apparatus. Place all samples into a single decontaminated stainless steel bowl using decontaminated stainless steel tools, or into a plastic bowl using plastic spoons, depending on the analyses to be performed. Homogenize the samples in the bowl.
- Place samples of the homogenized soil/solids from the bowl into sample jars for analysis.
- Collect liquid samples from the drum using a glass sampling tube. Insert the tube to the base of the drum to fill the entire tube with liquid. Place the liquid into sample jars for analysis.

DRUM STORAGE

Follow the instructions below for drum storage:

- Label and store the drums in an area approved by the client.
- Store hazardous/dangerous waste drums in a secured area.

DOCUMENTATION

Document IDW drums on the Waste Inventory Tracking Sheet as described above. Provide the original Waste Inventory Tracking Sheet and the original field notes to the Project Manager.

REFERENCE

U.S. Environmental Protection Agency. *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*. Publication No. SW-846. Third Edition, Final Updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), and V (2015).

APPENDIX B
UST DECOMMISSIONING DOCUMENTATION

HISTORICAL FEATURE DECOMMISSIONING AND REMOVAL
Block 79 East Property
701, 739, 753 9th Avenue North
Seattle, Washington

Farallon PN: 397-035

AAA

Verified Candidate

Search Again

Customer Name:	Account Number:
Brad Reilly	8289423

Certifications:

Initial Certification	Current Current Expiration	Certificate Name
03/23/2019	03/23/2021	Washington State Site Assessment
07/06/2019	07/06/2021	Oregon Heating Oil Tank Supervisor
02/25/2020	02/25/2022	UST Decommissioning

UST ID #: ___N/A____

County: __King____

DEPARTMENT OF ECOLOGY
State of Washington

SITE CHECK/SITE ASSESSMENT CHECKLIST

FOR UNDERGROUND STORAGE TANKS

This checklist certifies that site check or site assessment activities were performed in accordance with Chapter 173-360 WAC. Instructions are found on the last page.

I. UST FACILITY	II. OWNER/OPERATOR INFORMATION
Facility Compliance Tag #: N/A	Owner/Operator Name: Block 79 LLC
UST ID #: N/A	Business Name: Block 79 LLC
Site Name: Block 79 East	Address: 505 5th Avenue South, Suite 900
Site Address: 739 9th Avenue North	City: Seattle State: WA Zip: 98104
City: Seattle	Phone: (206) 342-2515
Phone: N/A	Email: debw@vulcan.com

III. CERTIFIED SITE ASSESSOR

Service Provider Name: Courtney van Stolk		Company Name: Farallon Consulting	
Cell Phone: (206) 379-7323	Email: cvanstolk@farallonconsulting.com	Address: 1809 7th Ave, Suite 1111	
Certification #: 9765003	Exp. Date: 8/13/22	City: Seattle	State: WA Zip: 98101

IV. TANK INFORMATION

TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	DATE SITE CHECK OR ASSESSMENT CONDUCTED
UST-L	900 gallons	Heating oil	3/9/2021
UST-A	1600 gallons	Waste oil	3/10/2021

V. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT (check one)

☒ Release investigation following permanent UST system closure (i.e. tank removal or closure-in-place).

☐ Release investigation following a failed tank and/or line tightness test.

☐ Release investigation following discovery of contaminated soil and/or groundwater.

☐ Release investigation directed by Ecology to determine if the UST system is the source of offsite impacts.

☐ UST system is undergoing a "change-in-service", which is changing from storing a regulated substance (e.g. gasoline) to storing a non-regulated substance (e.g. water).

☐ Directed by Ecology for UST system permanently closed or abandoned before 12/22/1988.

☐ Other (describe):

VI. CHECKLIST

The site assessor must check each of the following items and include it in the report. Sections referenced below can be found in the Ecology publication *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*.	YES	NO
1. The location of the UST site is shown on a vicinity map.	☒	☐
2. A brief summary of information obtained during the site inspection is provided (Section 3.2)	☒	☐
3. A summary of UST system data is provided (Section 3.1)	☒	☐
4. The soils characteristics at the UST site are described. (Section 5.2)	☒	☐
5. Is there any apparent groundwater in the tank excavation?	☒	☐
6. A brief description of the surrounding land use is provided. (Section 3.1)	☒	☐
7. The name and address of the laboratory used to perform analyses is provided. The methods used to collect and analyze the samples, including the number and types of samples collected, are also documented in the report. The data from the laboratory is appended to the report.	☒	☐
8. The following items are provided in one or more sketches:		
• Location and ID number for all field samples collected	☒	☐
• If applicable, groundwater samples are distinguished from soil samples	☒	☐
• Location of samples collected from stockpiled excavated soil	☒	☐
• Tank and piping locations and limits of excavation pit	☒	☐
• Adjacent structures and streets	☒	☐
• Approximate locations of any on-site and nearby utilities	☒	☐
9. If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? (Section 3.4)	☒	☐
10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method, and detection limit for that method. Any sample exceeding MTCA Method A cleanup standards are highlighted or bolded.	☒	☐
11. Any factors that may have compromised the quality of the data or validity of the results are described.	☒	☐
12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred. The requirements for reporting confirmed releases can be found in WAC 173-360-372.	☒	☐

VII. Required Signatures

Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360-360 through -395.

Courtney van Stolk	Courtney van Stolk	4/2/2021
Print or Type Name	Signature of Certified Site Assessor	Date

SITE CHECK/SITE ASSESSMENT CHECKLIST
FOR UNDERGROUND STORAGE TANKS

INSTRUCTIONS

This checklist must accompany the results of a Site Check Report, which is performed if a release of petroleum or other regulated substance is suspected. It is also required to accompany a Site Assessment Report, which is required following the permanent closure or "change-in-service" of an underground storage tank system. This form is required to be filled out whether or not contamination is found. This checklist is to be completed by the Site Assessor and submitted **within thirty days of completing** these activities to the following address:

Dept. of Ecology
UST Section
PO Box 47655
Olympia, WA 98504-7655

I./II. UST Facility and Owner/Operator Information: Fill out these sections completely. If you do not know your UST ID number, include the facility compliance tag number.

III. Service Provider Information: It is the responsibility of the ICC-certified Site Assessor to ensure that sampling and documentation procedures are completed in accordance with Ecology's *Guidance for Site Checks and Site Assessment for Underground Storage Tanks*.

IV. Tank Information: Use the same Tank identification numbers listed on the facility's Business License which is based on the most recent UST Addendum on file with Ecology. List the last substance stored in each tank, the tank sizes and the date the site check or site assessment was completed.

V. Required Signature: The Site Assessor signature certifies these procedures were followed.

All confirmed releases must be reported to Ecology by the owner within 24 hours and by service providers within 72 hours of discovery. A Site Characterization Report must be submitted to Ecology within 90 days after confirming a release.

Further questions? *Please contact your regional office below and ask for a tank inspector to assist you.*

Regional Office	Counties Served
Central (509) 575-2490	Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima
Eastern (509) 329-3400	Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman
HQ (360) 407-7170	Federal facilities in Western Washington
Northwest (425) 649-7000	Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom
Southwest (360) 407-6300	Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum

or find a complete list of UST inspectors at:
www.ecy.wa.gov/programs/tcp/ust-lust/people.html

DEPARTMENT OF ECOLOGY
State of Washington

30-DAY NOTICE
FOR UNDERGROUND STORAGE TANKS

UST ID #: _____

County: RECEIVED

FEB 04 2021

Washington State Department of Ecology
Toxics Cleanup Program

This form provides Ecology 30-days' advanced notice for the following projects, as required by Chapter 173-360 WAC.
Instructions are found on the back page.

Please ✓ the appropriate box: ☐ Intent to Install ☒ Intent to Close ☐ Change-in-Service

I. SITE INFORMATION	II. OWNER/OPERATOR INFORMATION
Tag or UBI # (if applicable): NA	Owner/Operator Name: Block 79 LLC
UST ID # (if applicable): NA	Business Name: Block 79 LLC
Site Name: Block 79 East	Mailing Address: 505 5th Avenue South STE 900
Site Address: 739 9th Avenue North	City: Seattle State: WA Zip: 98104
City: Seattle	Phone: (206)342-2515
Phone:	Email: debw@vulcan.com

III. CERTIFIED SERVICE PROVIDER(S)

Check the appropriate boxes, if more than one service provider is required for this project, fill out both sections.

Note: Individuals performing UST services MUST be ICC-certified or have passed another qualifying exam approved by the Department of Ecology.

1) ☐ Installer ☒ Decommissioner ☐ Site Assessor

Company Name: ECOLOGY INC	Certification Type: UST Decommissioner
Service Provider Name: Brad Reilly	Cert. No.: **8289423** Exp. Date: **2/25/22**
Provider Phone: (206) 779-0080	Provider Email: BRAD@ALLECI.COM

2) ☐ Installer ☐ Decommissioner ☒ Site Assessor

Company Name: Farallon Consulting	Certification Type: UST Site Assessor
Service Provider Name: Courtney Van Stolk	Cert. No.: 9765003 Exp. Date: **8/13/22**
Provider Phone: **(425)295-6013**	Provider Email: **cvanstolk@farallonconsulting.com**

IV. TANK INFORMATION

TANK ID	SUBSTANCE STORED	TANK CAPACITY	DATE PROJECT IS EXPECTED TO BEGIN	COMMENTS
NA	Waste Oil	UNK	03/08/2021	**Third UST has not been confirmed present but is suspected based on presence of a suspected fill port; tank to be confirmed with magnetic trace and GPR.**
NA	Heating Oil	900 G	03/08/2021	
NA	UNK	UNK	03/08/2021	**Removal of 4 hydraulic lift reservoirs to occur concurrent with UST decommissioning and removal.**

ICC INTERNATIONAL CODE COUNCIL®

INTERNATIONAL CODE COUNCIL

COURTNEY VAN STOLK

The International Code Council attests that the individual named on this certificate has satisfactorily demonstrated knowledge as required by the International Code Council by successfully completing the prescribed written examination based on codes and standards then in effect, and is hereby issued this certification as:

Washington State Site Assessment

Given this day August 13, 2020

Certificate No. 9765003

Greg Wheeler, CBO
President, Board of Directors

Dominic Sims, CBO
Chief Executive Officer

March 24, 2021
ECI Project No.: 0520-30

Underground Storage Tank Decommissioning Certification

This is a statement of Underground Storage Tank Decommissioning provided by EcoCon, Inc. (ECI). ECI states this decommissioning has occurred under the supervision of an ICC Certified UST Decommissioner following the local and state rules and regulations as defined by the Uniform Fire Code (UFC) and Washington Administrative Code (WAC). Following Seattle Fire Department certification, the USTs were excavated and transported off site and disposed at a local recycling facility.

Project Client:	CGI, Inc.
Project Name:	Block 79, LLC
Project Address:	739 9th Ave, Seattle, WA
Type of Decommissioning:	Excavation and removal from sub-surface
UST Installation Date:	Unknown
UST Decommissioning Date:	March 9, 2021
Permit Issuance Date:	March 9, 2021
UST(s) Total Gallons:	1-900g Heating oil Previously filled in place, 1-1600g Waste Oil
UST(s) Dimensions:	48”x120” – 900g; 60”x132” – 1600g
UST(s) Construction:	Steel Single Wall Construction

Certified UST Decommissioner:	**Brad Reilly**
Certification Number:	**8289423– Exp: 02/25/2022**

Brad N. Reilly

March 24, 2021
Date

ECI | Environmental Services
Phone: (253) 921-7059 | Fax: (253) 369-6228 | brad@alleci.com

Tues 03/09/2021 @ 11am

Your Seattle Fire Department

APPLICATION FOR TEMPORARY PERMIT

Code 7908 Commercial Tank Removal/Decommissioning

Permit Fee: $288.00 **Date Issued:** 3-9-2021

TO BE COMPLETED BY PERMIT APPLICANT **Tank(s) must be removed from site on the same day as permit is issued!**

BUSINESS NAME: EcoCon Inc

MAILING ADDRESS: P.O. Box 153 SUITE:

CITY: Fox Island STATE: WA ZIP: 98333

JOBSITE ADDRESS: 739-753 9th Ave. N.

CONTACT PERSON: Brad Reilly PHONE NUMBER: (206) 779-0050

Number of Tank(s): 5 Tank Size(s): 1000gal, 300 gal, 675 gal ☐ Aboveground tank

Product(s) Previously Contained: gasoline, waste oil, fuel oil, & diesel ■ Underground tank

■ Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents)

☐ Abandonment-in-Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and/or unknowns)

Hot work being conducted: ~~■ No~~ DRS ☒ Yes (If yes, a separate hot work permit is required)

One tank to be removed on 3-9-2021
One tank to be removed on 3-10-2021

Permit applications may be submitted in person weekdays from 8:00 a.m. to 4:30 p.m., or mailed to:

Seattle Fire Department
Fire Marshal's Office – Permits
220 Third Ave S, 2nd Floor
Seattle, WA 98104-2608

To pay with a Visa or Master Card, email this completed application to us,
THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT.
Tel: (206) 386-1450
E-mail: permits@seattle.gov

Call 206-386-1450, at least 24 hours prior to needed inspection time to arrange for an appointment.
TANKS MAY BE REMOVED/DECOMMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION
NO HOT WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, and federal, state, and local regulations. **THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED.**

I understand the conditions of this permit and will ensure all tank removal/decommissioning operations are conducted accordingly. I acknowledge that I received an inspection by a Seattle Fire Department inspector today.

Brad Reilly (Print Name) _____ (Signature) ICC Certified Decommissioner (Title)

Special permit conditions: *Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)*

Serial # 667-04753

FMO USE:
Check No.: 00020225030321
Receipt No.: 5-323850
Application ID#: 122670

APPROVED BY:
Inspector: D. Seegmiller SFD ID# 1475
Name of Marine Chemist Phil Dovinh Certificate # 667
Date: 3-9-2021

(01/19)

Philip Dovinh - U.S. Marine Chemists & Engineering
P.O. Box 63, Mukilteo, WA 98275
Office: (206) 200-6912 Fax:
Cell: (206) 200-6912 Email: pdovinh@comcast.net

MARINE CHEMIST CERTIFICATE

Serial 667-04753

Brad Reilly /Environmental Consulting Inc. (ECI)	ECI/Brad Reilly / CMC George Blair	Mar 9, 2021
Survey Requested by	Vessel Owner Agent	Date
Underground Storage Tanks(USTs)	Underground Storage Tanks (USTs)	739 9th Ave N, Seattle, WA
Vessel	Type of Vessel	Specific Location of Vessel
Waste Oil, Heating Oil (3X)	O_2, LEL, Visual	9:32
Last Three 3 Loadings	Tests Performed	Time Survey Completed

Inspected Spaces:

Group 1.
—ONE (1) APPROXIMATELY 1600-GALLON UNDERGROUND STORAGE TANK (WASTE OIL)

AUTHORIZATION & REQUIREMENTS:

1) TANK IS INERTED WITH CO2;
2) HOT WORK AUTHORIZED TO CUT TANK OPEN WITH A CUT-OFF SAW TO FACILITATE TANK-CLEANING OPERATIONS;
3) HOT WORK COMPLETED AT 0917 AM ON MARCH 9, 2021;
4) CHEMIST ON-SITE DURING HOT WORK;
5) HOT WORK IS NOT PERMITTED WITHOUT PRESENCE OF CHEMIST ON SITE.

Safety Designations:

NOT SAFE FOR WORKERS
SAFE FOR HOT WORK
INERTED
Inert Medium: —*Carbon Dioxide (CO2)*
Method for maintaining safe conditions: —*Keep Closed & Secured.*
Measures for safe disposal of inert gas: —*Keep Closed & Secured.*

Test Results	% O_2	% LEL
Inspected spaces group 1	<4%	0%

Limits of Detection

0.5% O2, 1% LEL, 0.1 ppm H2S, 1 ppm CO, 1 ppb THCs/VOCs w/PPB PID

Inspected Spaces:

Group 1.
—ONE (1) APPROXIMATELY 900-GALLON UNDERGROUND STORAGE TANK

AUTHORIZATION & REQUIREMENTS:

1) TANK HAS BEEN FILLED WITH CDF;
2) MECHANICALLY RIPPING TANK OPEN TO EMPTY CDR OR ADDITIONAL TANK-CLEANING OPERATIONS AUTHORIZED.

Safety Designations:

NOT SAFE FOR WORKERS
NOT SAFE FOR HOT WORK

Test Results	% O_2	% LEL
Inspected spaces group 1	<6.6%	0%

Limits of Detection

0.5% O2, 1% LEL, 0.1 ppm H2S, 1 ppm CO, 1 ppb THCs/VOCs w/PPB PID

In the event of physical or atmospheric changes affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, this certificate is voided; spaces not listed on the Certificate are not to be entered unless authorized on another Certificate and/or maintained in accordance with OSHA 29 CFR 1915; or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist. Unless otherwise stated on the Certificate, all spaces and affected adjacent spaces are to be reinspected daily or more often as necessary by the competent person or the authority having jurisdiction as applicable in support of work prior to entry or recommencement of work.

QUALIFICATIONS: Transfer of ballast, cargo, fuel or manipulation of valves or closure equipment tending to alter conditions in pipelines, tanks, or compartments subject to gas accumulation, unless specifically approved on this Certificate, requires inspection and a new Certificate for spaces so affected. All lines, vents, heating coils, valves, and similar enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated. Movement of the vessel from its specific location voids the Certificate unless shifting of the vessel within the facility has been specifically authorized on this certificate.
STANDARD SAFETY DESIGNATIONS: (partial list, paraphrased from NFP 306, Subsections 4.3.1 through 4.3.6)
ATMOSPHERE SAFE FOR WORKERS: In the compartment or space so designated (a) the oxygen content of the atmosphere shall be at least 19.5 percent and not greater than 22 percent by volume; (b) the concentration of flammable materials is below 10 percent of the lower explosive limit; (c) any toxic materials in the atmosphere associated with cargo, fuel, tank coatings, inerting mediums, or fumigants are

Philip Dovinh - U.S. Marine Chemists & Engineering
P.O. Box 63, Mukilteo, WA 98275
Office: (206) 200-6912 Fax:
Cell: (206) 200-6912 Email: pdovinh@comcast.net

MARINE CHEMIST CERTIFICATE

Serial 667-04753

Brad Reilly /Environmental Consulting Inc. (ECI)	ECI/Brad Reilly / CMC George Blair	Mar 9, 2021
Survey Requested by	Vessel Owner Agent	Date
Underground Storage Tanks(USTs)	Underground Storage Tanks (USTs)	739 9th Ave N, Seattle, WA
Vessel	Type of Vessel	Specific Location of Vessel
Waste Oil, Heating Oil (3X)	O_2, LEL, Visual	9:32
Last Three 3 Loadings	Tests Performed	Time Survey Completed

Inspected Spaces:

Group 1.
—ONE (1) APPROXIMATELY 1600-GALLON UNDERGROUND STORAGE TANK (WASTE OIL)

AUTHORIZATION & REQUIREMENTS:

1) TANK IS INERTED WITH CO2;
2) HOT WORK AUTHORIZED TO CUT TANK OPEN WITH A CUT-OFF SAW TO FACILITATE TANK-CLEANING OPERATIONS;
3) HOT WORK COMPLETED AT 0917 AM ON MARCH 9, 2021;
4) CHEMIST ON-SITE DURING HOT WORK;
5) HOT WORK IS NOT PERMITTED WITHOUT PRESENCE OF CHEMIST ON SITE.

Safety Designations:

NOT SAFE FOR WORKERS
SAFE FOR HOT WORK
INERTED
Inert Medium: —*Carbon Dioxide (CO2)*
Method for maintaining safe conditions: —*Keep Closed & Secured.*
Measures for safe disposal of inert gas: —*Keep Closed & Secured.*

Test Results	% O_2	% LEL
Inspected spaces group 1	<4%	0%

Limits of Detection

0.5% O2, 1% LEL, 0.1 ppm H2S, 1 ppm CO, 1 ppb THCs/VOCs w/PPB PID

Inspected Spaces:

Group 1.
—ONE (1) APPROXIMATELY 900-GALLON UNDERGROUND STORAGE TANK

AUTHORIZATION & REQUIREMENTS:

1) TANK HAS BEEN FILLED WITH CDF;
2) MECHANICALLY RIPPING TANK OPEN TO EMPTY CDR OR ADDITIONAL TANK-CLEANING OPERATIONS AUTHORIZED.

Safety Designations:

NOT SAFE FOR WORKERS
NOT SAFE FOR HOT WORK

Test Results	% O_2	% LEL
Inspected spaces group 1	<6.6%	0%

Limits of Detection

0.5% O2, 1% LEL, 0.1 ppm H2S, 1 ppm CO, 1 ppb THCs/VOCs w/PPB PID

In the event of physical or atmospheric changes affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, this certificate is voided; spaces not listed on the Certificate are not to be entered unless authorized on another Certificate and/or maintained in accordance with OSHA 29 CFR 1915; or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist. Unless otherwise stated on the Certificate, all spaces and affected adjacent spaces are to be reinspected daily or more often as necessary by the competent person or the authority having jurisdiction as applicable in support of work prior to entry or recommencement of work.

QUALIFICATIONS: Transfer of ballast, cargo, fuel or manipulation of valves or closure equipment tending to alter conditions in pipelines, tanks, or compartments subject to gas accumulation, unless specifically approved on this Certificate, requires inspection and a new Certificate for spaces so affected. All lines, vents, heating coils, valves, and similar enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated. Movement of the vessel from its specific location voids the Certificate unless shifting of the vessel within the facility has been specifically authorized on this certificate.
STANDARD SAFETY DESIGNATIONS: (partial list, paraphrased from NFP 306, Subsections 4.3.1 through 4.3.6)
ATMOSPHERE SAFE FOR WORKERS: In the compartment or space so designated (a) the oxygen content of the atmosphere shall be at least 19.5 percent and not greater than 22 percent by volume; (b) the concentration of flammable materials is below 10 percent of the lower explosive limit; (c) any toxic materials in the atmosphere associated with cargo, fuel, tank coatings, inerting mediums, or fumigants are

Tues, March 9, 2021
11am

RECEIVED
MAR 09 2021
PERMIT SECTION

Your
Seattle
Fire Department

APPLICATION FOR TEMPORARY PERMIT

Code 4913 — **Temporary Land-based Hot Work**

Permit Fee: $ 288.00

3/9/2021 (Date Issued) , 3/12/2021 (Permit Expiration Date)

TO BE COMPLETED BY PERMIT APPLICANT (PLEASE PRINT)

BUSINESS NAME EcoCon Inc		
MAILING ADDRESS P.O. Box 153		SUITE
CITY Fox Island	STATE WA	ZIP 98333
JOBSITE ADDRESS 739-753 9th Ave N		
ONSITE CONTACT Brad Reilly	PHONE NUMBER (206) 779-0050	

Payment must accompany all applications. Please include a check made payable to the CITY OF SEATTLE.

Permit applications may be submitted in person weekdays from 8:00 a.m. to 4:30 p.m., or mailed to:

Seattle Fire Department
Fire Marshal's Office – Permits
220 Third Ave S, 2nd Floor
Seattle, WA 98104-2608

To pay with a Visa or Master Card, email this completed application to us, **THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT.**
Tel: (206) 386-1450
E-mail: permits@seattle.gov

Call 206-386-1450, at least 24 hours prior to needed inspection time to arrange for an appointment.

Permission is hereby granted to conduct hot work at the location designated herein, in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, and federal, state, and local regulations.

I understand the conditions of this permit and will ensure all hot work operations are conducted accordingly. I acknowledge that I received an inspection by a Seattle Fire Department inspector today.

BRAD REILLY (Print Name) _____ (Signature) PROJECT MANAGER (Title)

Special permit conditions: For needed cutting, welding & other hot work pertaining to removal of tanks.

THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED

FMO USE:	**APPROVED BY:**	
Check No.: 00020251030921		
Receipt No.: 5-323988	Inspector: D. Seegmiller	SFD ID# 1475
Application ID#: 122707	Date: 3-9-2021	

(01/19)

Marine Vacuum Service, Inc.

GENERAL CONTRACTOR

CONTRACTORS LICENSE # MARINVS097JA

P0. Box 24263 Seattle, Washington 98124

Telephone (206) 762-0240

FAX (206) 763-8084

1-800-540-7491

AST/UST STORAGE TANK PUMP & RINSE CERTIFICATE

Tank Size: 1,600 gallons

Last Contents Used oil

Tank Location: ~~639~~ 739 9th Ave N

Seattle, WA

Marine Vacuum Service, Inc. certifies that the above mentioned tank(s) have been triple rinsed in accordance with the industry standard as outlined in 40 CFR PART 280.70, WAC 173-360-380(I), API 1604, API 2015 and that all residual product and rinsate has been disposed of in accordance with Federal, State and Local regulations. Tanks listed above are **NOT GAS FREE** or **NOT SAFE FOR HOT WORK**

Tank Owner: BLOCK 79 LLC

Contractor: CGI Construction

M.V.S. Representative: [signature]

Date: 03/10/21

Notes:

DBE # D4M1302341

EPA # WAD980974521

A MINORITY BUSINESS ENTERPRISE ID # D4M1302341

BILL OF LADING

PRODUCT TRANSPORT MANIFEST

MARINE VACUUM SERVICE, INC.

24 HOUR EMERGENCY PHONE NUMBER (206) 762-0240

FAX NUMBER 206-763-8084

TRUCK NUMBER_____ DATE 3-16-21

N° 29749

TO
DESTINATION
NAME Marine Vacuum Service, Inc.
STREET 1516 South Graham Street
CITY/STATE Seattle, WA 98108

FROM
SHIPPER
NAME ECO CON (BLOCK 79 LLC)
STREET 739 9th ave N
CITY/STATE SEA WA.

QUANTITY	PROPER SHIPPING NAME	UN (PLACARD) NUMBER
100	NON REG USED OIL	

SLUDGE

RECEIVER [signature] DATE

SHIPPER [signature] DATE 3/16/21

NOTE: WASH OUT

Customer warrants that the waste petroleum products being transferred by the above collector do not contain any contaminates including without limitations, pesticides, chlorinated solvents at concentrations greater than 1000 PPM, any detectable levels of PCBs, or any other material classified as dangerous or hazardous waste by 40 CFR Part 261, Subpart C and D (implementing the Federal Resource Conservation and Recover Act), or by any equivalent state dangerous or hazardous substance classification programs. Should laboratory tests find this waste not in compliance with 40 CFR Part 261, customer (generator) agrees to pay for all disposal costs incurred.

APPENDIX C
PHOTOGRAPHS

HISTORICAL FEATURE DECOMMISSIONING AND REMOVAL
Block 79 East Property
701, 739, 753 9th Avenue North
Seattle, Washington

Farallon PN: 397-035

PHOTOGRAPHS
Site Assessment for UST Decommissioning
Block 79 East Property
701, 739, and 753 9th Avenue North
Seattle, Washington
Farallon PN: 397-035

Photograph 1: UST-L excavation showing UST-L tank opened to inspect fill material.

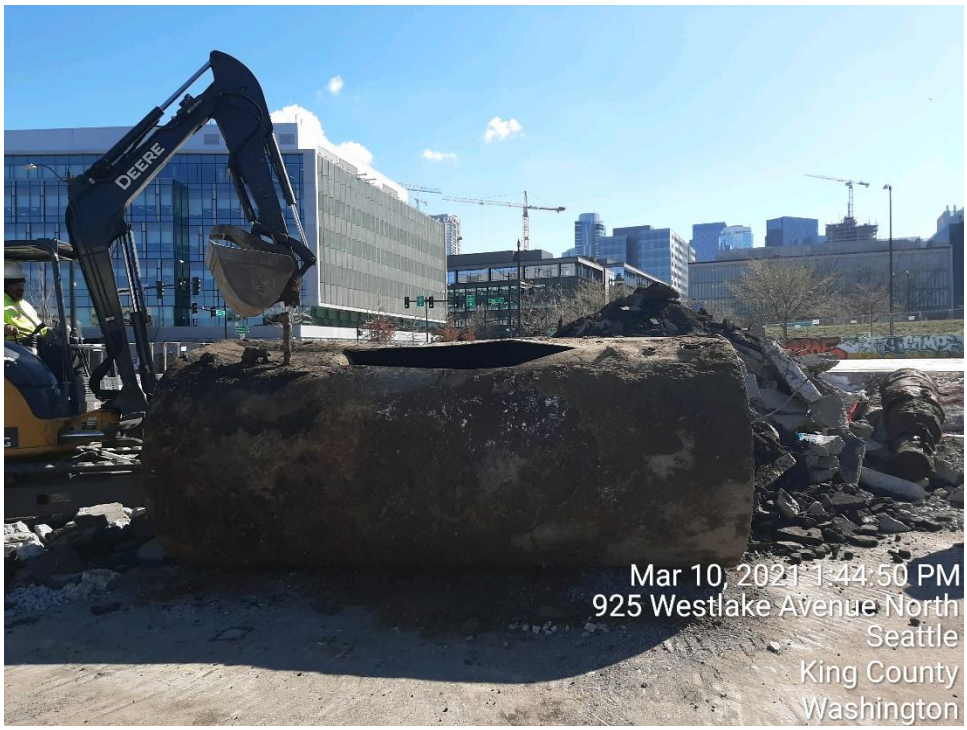
Photograph 2: UST-L removed from the excavation.

Photograph 3: UST-L lined and backfilled excavation and stockpile, viewed from the south.

Photograph 4: Uncovering the top of UST-A and associated piping. Note, oil-soaked soil around lines at top of tank.

Photograph 5: Marine Chemist inerting UST-A.

Photograph 6: UST-A cut open for tank cleaning.



Photograph 7: UST-A removed from the ground.

Photograph 8: Holes in the bottom of UST-A.

Photograph 9: Below left. Soil from UST-A below tank location, at a depth of 15 feet bgs.

Photograph 10: Above right. Groundwater with sheen entering southwestern corner of UST-A excavation at a depth of 15 feet bgs.

Photograph 11: Capped lines at the UST-A excavation.

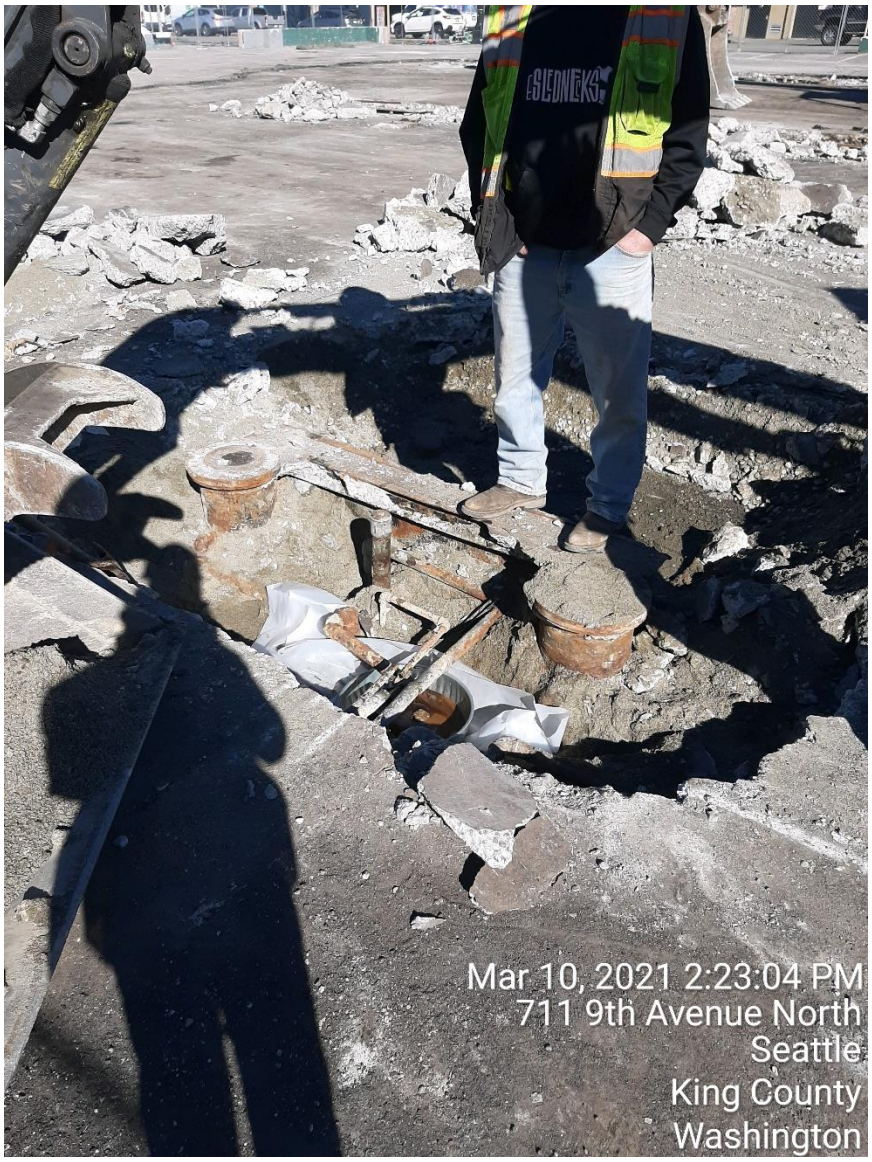
Photograph 12: UST-A excavation lined, backfilled, and compacted, viewed from south.

Photograph 13: Below left. Hoist-1 (background) and Hoist-2 (foreground) from the north before concrete demolition.

Photograph 14: Above right. Hoist-S2, Hoist-4, Hoist-S1, and Hoist-3 from the south before concrete demolition.

Photograph 15: Mar-Vac removing oil from accessible hoist reservoir fill lines.

Photograph 16: Hoist-2 lines exposed.

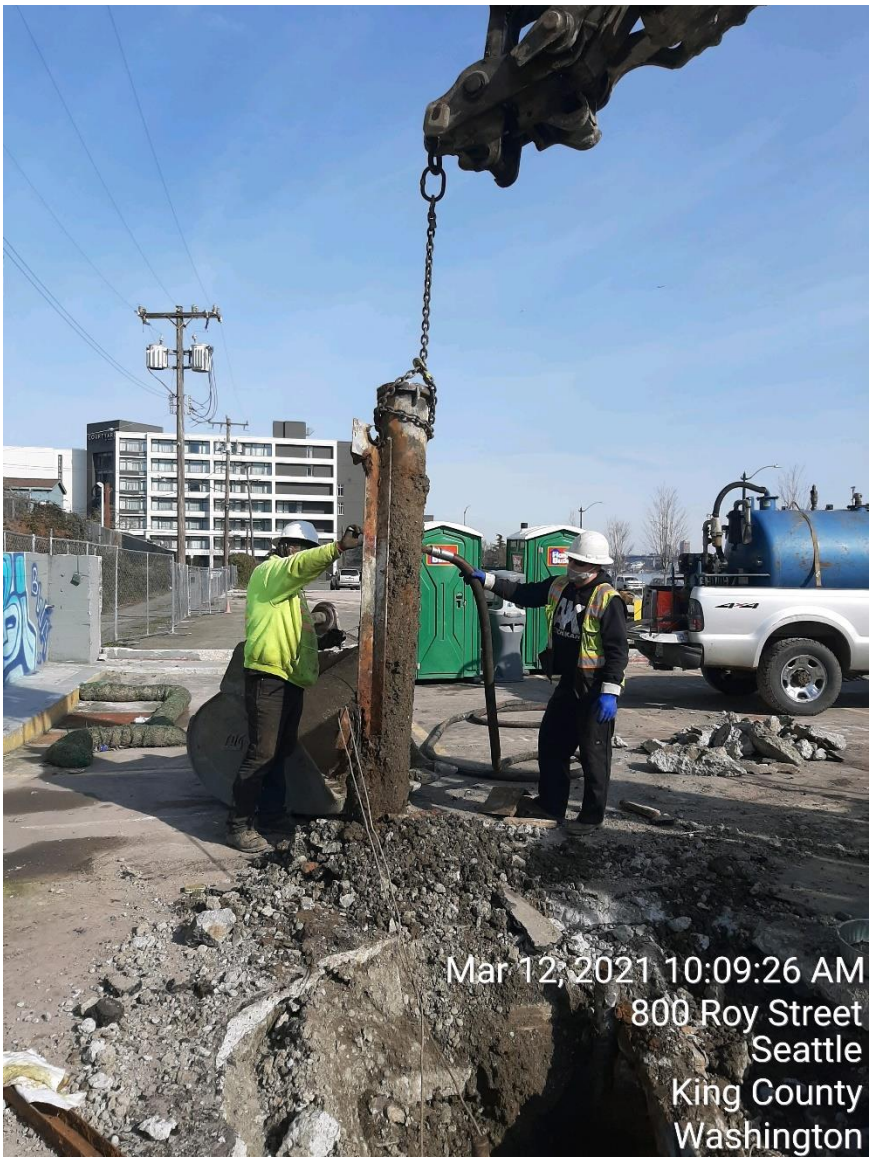


Photograph 17: Below left. ECI cutting lines at Hoist-5 and draining remaining oil.

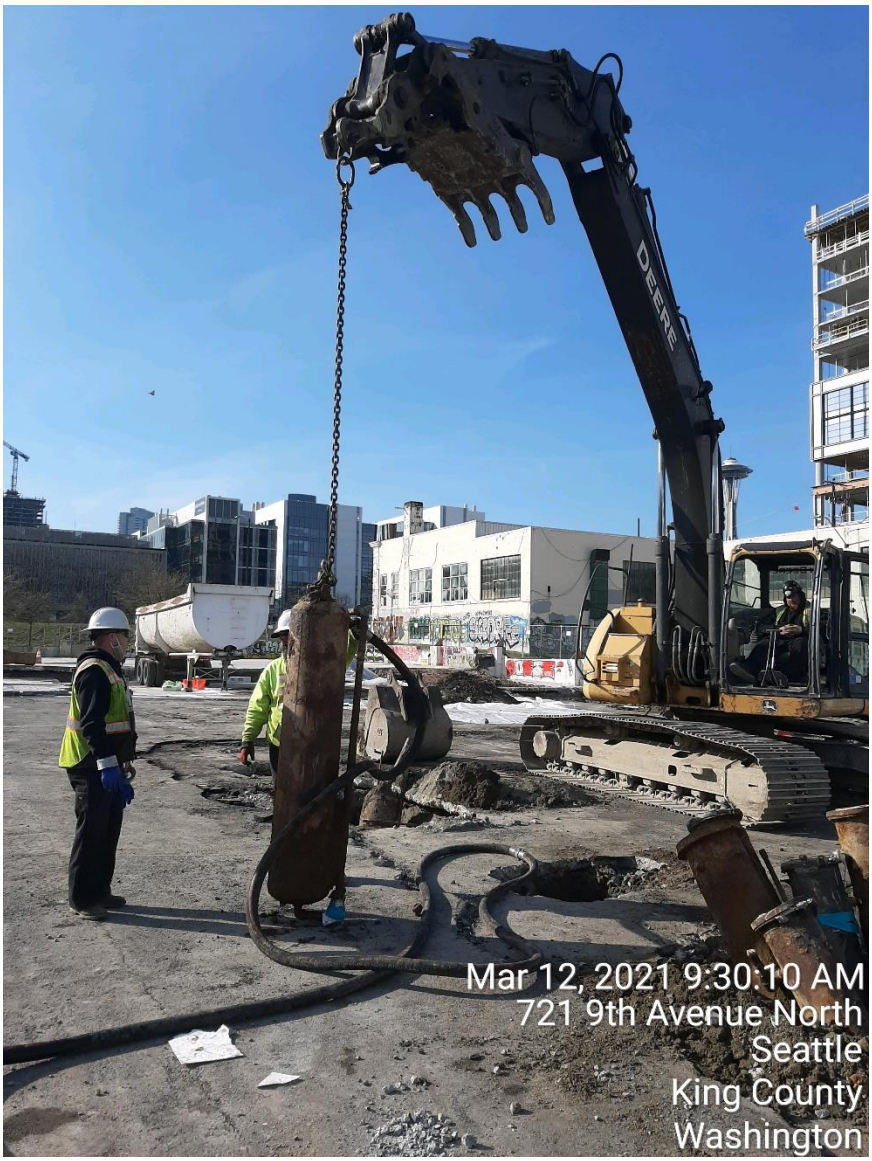
Photograph 18: Above right. Hoist-5 being pulled from the ground.

Photograph 19: ECI drains oil from leaking hole in Hoist-3 cylinder.

Photograph 20: Hoist-3 excavation in foreground viewed from the north. Hoist-S1, Hoist-4, and Hoist-S2 excavation visible behind it.



Photograph 21: ECI vacuums oil from Hoist-1 reservoir.



Photograph 22: ECI vacuums oil from Hoist-6 cylinder.

Photograph 23: Eastern hoist excavations lined, backfilled, and compacted.

Photograph 24: Western hoists lined, backfilled, and compacted.

APPENDIX D
SHIPPING MANIFESTS

HISTORICAL FEATURE DECOMMISSIONING AND REMOVAL
Block 79 East Property
701, 739, 753 9th Avenue North
Seattle, Washington

Farallon PN: 397-035

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number: WAD988518163	2. Page 1 of 1	3. Emergency Response Phone: 866-785-7225	4. Manifest Tracking Number: 015381937 FLE

5. Generator's Name and Mailing Address
Block 79 LLC
505 5th Ave S Ste 900
Seattle, WA 98104
Generator's Phone: 206-342-2515

Generator's Site Address (if different than mailing address)
Block 79 LLC
701 9th Ave North
Seattle, WA 98109

6. Transporter 1 Company Name: R Transport, INC — U.S. EPA ID Number: WAH000028338

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chemical Waste Management of the Northwest (OR)
17629 Cedar Springs Lane
Arlington, OR 97812
Facility's Phone — U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes D008	13. Waste Codes F001
X	1. NA3077, Hazardous waste, solid, n.o.s. (Contaminated Soil, Lead), 9, PGIII	2	ST	80000	P		
	2.						
	3.						
	4.						

14. Special Handling Instructions and Additional Information
Project Number 287111 Document # 0548674
1) ERG#171; ORG46841 SLC:_____

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Robert Thacker — Signature — Month 3 Day 26 Year 21

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ray Graham — Signature — Month 3 Day 26 Year 21
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone
18c. Signature of Alternate Facility (or Generator) — Month Day Year

18d. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

19. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

Please print or type

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: WAD988518163
2. Page 1 of: 1
3. Emergency Response Phone: 888-785-7225
4. Manifest Tracking Number: 015381938 FLE

Form Approved. OMB No. 2050-0039

5. Generator's Name and Mailing Address:
Block 79 LLC
505 5th Ave S Ste 900
Seattle, WA 98104
Generator's Phone: 206-342-2515

Generator's Site Address (if different than mailing address):
Block 79 LLC
701 9th Ave North
Seattle, WA 98109

6. Transporter 1 Company Name: R Transport, INC
U.S. EPA ID Number: WAH000028338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address:
Chemical Waste Management of the Northwest (OR)
17629 Cedar Springs Lane
Arlington, OR 97812
Facility's Phone:
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3077, Hazardous waste, solid, n.o.s. (Contaminated Soil, Lead), 9, PGIII		BT	60.00	P	D008	F001	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information: Project Number: 287111 Document #: D348678
1) ERG#171, OR346841 BLC

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator/Offeror's Printed/Typed Name: Robert Thacker
Signature:
Month: 3 Day: 26 Year: 24

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Frankie D Muntz
Signature:
Month: 3 Day: 26 Year: 24

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

18. Discrepancy
18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems):
1: 2: 3: 4:

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name:
Signature:
Month: Day: Year:

GENERATOR | TRANSPORTER | INT'L | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 12-11) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Please print or type

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number: WAD988518163	2. Page 1 of: 1	3. Emergency Response Phone: 888-785-7225	4. Manifest Tracking Number: 015381939 FLE

GENERATOR

5. Generator's Name and Mailing Address:
Block 79 LLC
505 5th Ave S Ste 900
Seattle, WA 98104
Generator's Phone: 206-342-2515

Generator's Site Address (if different than mailing address):
Block 79 LLC
701 9th Ave North
Seattle, WA 98109

6. Transporter 1 Company Name: R Transport, INC — U.S. EPA ID Number: WAH000028338

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
Chemical Waste Management of the Northwest (OR)
17629 Cedar Springs Lane
Arlington, OR 97812
Facility's Phone: — U.S. EPA ID Number: ORD089452553

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers: No.	10. Containers: Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3077, Hazardous waste, solid, n.o.s. (Contaminated Soil, Lead), 9, PGIII		DT	62,000	P	D008	F001	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information: Project Number: 267111 Document #: D348684
1) ERG#171 ORD46841 BLC-_____

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Robert Thacker — Signature: [signature] — Month: 3 Day: 26 Year: 21

INTL

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Todd Nysether — Signature: [signature] — Month: 3 Day: 26 Year: 21

Transporter 2 Printed/Typed Name — Signature — Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator): U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Code(s) (i.e., codes for hazardous waste treatment, disposal, and recycling systems):
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month: Day: Year:

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Please print or type

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number: WAD988518163	2. Page 1 of: 1	3. Emergency Response Phone: 888-785-7225	4. Manifest Tracking Number: 015381940 FLE

GENERATOR

5. Generator's Name and Mailing Address:
Block 79 LLC
505 5th Ave S Ste 900
Seattle, WA 98104
Generator's Phone: 206-342-2515

Generator's Site Address (if different than mailing address):
Block 79 LLC
701 9th Ave North
Seattle, WA 98109

6. Transporter 1 Company Name: R Transport, INC — U.S. EPA ID Number: WAH000028338

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
Chemical Waste Management of the Northwest (OR)
17629 Cedar Springs Lane
Arlington, OR 97812
Facility's Phone: — U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers: No.	10. Containers: Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	NA3077, Hazardous waste, solid, n.o.s. (Contaminated Soil, Lead), 9, PGIII		DT	30 000	P	D008 F001
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: Project Number 287111 Document # D048689
1) ERG#171; OR346841 BLC-_____

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter: I certify that the contents of the consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Robert Thacker — Signature: [signature] — Month: 03 Day: 26 Year: 21

TRANSPORTER INT'L

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit: — Date leaving U.S.:
Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
PETE VANDERENDE	[signature]	03	26	21
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems):
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: — Signature: — Month: Day: Year:

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

APPENDIX E
LABORATORY ANALYTICAL RESULTS

HISTORICAL FEATURE DECOMMISSIONING AND REMOVAL
Block 79 East Property
701, 739, 753 9th Avenue North
Seattle, Washington

Farallon PN: 397-035

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

March 9, 2021

Eric Buer
Farallon Consulting
1809 7th Avenue, Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 397-035
Laboratory Reference No. 2103-085

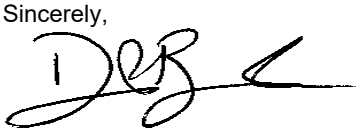
Dear Eric:

Enclosed are the analytical results and associated quality control data for samples submitted on March 8, 2021.

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

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

Sincerely,



David Baumeister
Project Manager

Enclosures

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

Case Narrative

Samples were collected on March 8, 2021 and received by the laboratory on March 8, 2021. 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.

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: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

HYDROCARBON IDENTIFICATION
NWTPH-HCID

Matrix: Product
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist 4-line**					
Laboratory ID:	03-085-01					
Gasoline Range Organics	**ND**	9600	NWTPH-HCID	3-8-21	3-9-21	
Diesel Range Organics	**Detected**	24000	NWTPH-HCID	3-8-21	3-9-21	
Lube Oil	**Detected**	48000	NWTPH-HCID	3-8-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	---	*50-150*				S
Client ID:	**Hoist 3-line**					
Laboratory ID:	03-085-03					
Gasoline Range Organics	**ND**	9700	NWTPH-HCID	3-8-21	3-9-21	
Diesel Range Organics	**Detected**	24000	NWTPH-HCID	3-8-21	3-9-21	
Lube Oil	**Detected**	49000	NWTPH-HCID	3-8-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	---	*50-150*				S

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

HYDROCARBON IDENTIFICATION
NWTPH-HCID
QUALITY CONTROL

Matrix: Product
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308P1					
Gasoline Range Organics	**ND**	10	NWTPH-HCID	3-8-21	3-8-21	
Diesel Range Organics	**ND**	25	NWTPH-HCID	3-8-21	3-8-21	
Lube Oil Range Organics	**ND**	50	NWTPH-HCID	3-8-21	3-8-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Product
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist 4-line**					
Laboratory ID:	03-085-01					
Gasoline	**880**	490	NWTPH-Gx	3-9-21	3-9-21	O
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*94*	*58-129*				
Client ID:	**Hoist 3-line**					
Laboratory ID:	03-085-03					
Gasoline	**910**	480	NWTPH-Gx	3-9-21	3-9-21	O
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*96*	*58-129*				

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Product
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309P1					
Gasoline	**ND**	5.0	NWTPH-Gx	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*58-129*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-085-01										
	ORIG	DUP									
Gasoline	**879**	**908**	NA	NA		NA		NA	3	30	
Surrogate:											
Fluorobenzene						*94*	*95*	*58-129*			

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Product
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist 4-line**					
Laboratory ID:	03-085-01					
Diesel Range Organics	**650000**	24000	NWTPH-Dx	3-8-21	3-9-21	
Lube Oil	**600000**	48000	NWTPH-Dx	3-8-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	---	*50-150*				S
Client ID:	**Hoist 3-line**					
Laboratory ID:	03-085-03					
Diesel Range Organics	**340000**	24000	NWTPH-Dx	3-8-21	3-9-21	
Lube Oil	**950000**	49000	NWTPH-Dx	3-8-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	---	*50-150*				S

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Product
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308P1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	3-8-21	3-8-21	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	3-8-21	3-8-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	SB0308P1										
	ORIG	DUP									
Diesel Fuel #2	**86.7**	**84.8**	NA	NA		NA		NA	2	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*97*	*97*	*50-150*			

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Product
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist 4-line**					
Laboratory ID:	03-085-01					
Dichlorodifluoromethane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Chloromethane	ND	14	EPA 8260D	3-9-21	3-9-21	
Vinyl Chloride	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Bromomethane	ND	11	EPA 8260D	3-9-21	3-9-21	
Chloroethane	ND	11	EPA 8260D	3-9-21	3-9-21	
Trichlorofluoromethane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,1-Dichloroethene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Acetone	ND	22	EPA 8260D	3-9-21	3-9-21	
Iodomethane	ND	11	EPA 8260D	3-9-21	3-9-21	
Carbon Disulfide	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Methylene Chloride	ND	11	EPA 8260D	3-9-21	3-9-21	
(trans) 1,2-Dichloroethene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Methyl t-Butyl Ether	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,1-Dichloroethane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Vinyl Acetate	ND	11	EPA 8260D	3-9-21	3-9-21	
2,2-Dichloropropane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
(cis) 1,2-Dichloroethene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
2-Butanone	ND	11	EPA 8260D	3-9-21	3-9-21	
Bromochloromethane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Chloroform	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,1,1-Trichloroethane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Carbon Tetrachloride	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,1-Dichloropropene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Benzene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,2-Dichloroethane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Trichloroethene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,2-Dichloropropane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Dibromomethane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Bromodichloromethane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
2-Chloroethyl Vinyl Ether	ND	11	EPA 8260D	3-9-21	3-9-21	
(cis) 1,3-Dichloropropene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Methyl Isobutyl Ketone	ND	11	EPA 8260D	3-9-21	3-9-21	
Toluene	ND	11	EPA 8260D	3-9-21	3-9-21	
(trans) 1,3-Dichloropropene	ND	2.2	EPA 8260D	3-9-21	3-9-21	

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist 4-line**					
Laboratory ID:	03-085-01					
1,1,2-Trichloroethane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Tetrachloroethene	12	2.2	EPA 8260D	3-9-21	3-9-21	
1,3-Dichloropropane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
2-Hexanone	ND	11	EPA 8260D	3-9-21	3-9-21	
Dibromochloromethane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,2-Dibromoethane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Chlorobenzene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,1,1,2-Tetrachloroethane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Ethylbenzene	3.9	2.2	EPA 8260D	3-9-21	3-9-21	
m,p-Xylene	17	4.3	EPA 8260D	3-9-21	3-9-21	
o-Xylene	7.2	2.2	EPA 8260D	3-9-21	3-9-21	
Styrene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Bromoform	ND	11	EPA 8260D	3-9-21	3-9-21	
Isopropylbenzene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Bromobenzene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,1,2,2-Tetrachloroethane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,2,3-Trichloropropane	ND	2.2	EPA 8260D	3-9-21	3-9-21	
n-Propylbenzene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
2-Chlorotoluene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
4-Chlorotoluene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,3,5-Trimethylbenzene	4.2	2.2	EPA 8260D	3-9-21	3-9-21	
tert-Butylbenzene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,2,4-Trimethylbenzene	15	2.2	EPA 8260D	3-9-21	3-9-21	
sec-Butylbenzene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,3-Dichlorobenzene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
p-Isopropyltoluene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,4-Dichlorobenzene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,2-Dichlorobenzene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
n-Butylbenzene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
1,2-Dibromo-3-chloropropane	ND	11	EPA 8260D	3-9-21	3-9-21	
1,2,4-Trichlorobenzene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Hexachlorobutadiene	ND	11	EPA 8260D	3-9-21	3-9-21	
Naphthalene	ND	11	EPA 8260D	3-9-21	3-9-21	
1,2,3-Trichlorobenzene	ND	2.2	EPA 8260D	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*74-131*				
Toluene-d8	*105*	*78-128*				
4-Bromofluorobenzene	*101*	*71-130*				

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Product
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist 3-line**					
Laboratory ID:	03-085-03					
Dichlorodifluoromethane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Chloromethane	ND	16	EPA 8260D	3-9-21	3-9-21	
Vinyl Chloride	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Bromomethane	ND	12	EPA 8260D	3-9-21	3-9-21	
Chloroethane	ND	12	EPA 8260D	3-9-21	3-9-21	
Trichlorofluoromethane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,1-Dichloroethene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Acetone	ND	24	EPA 8260D	3-9-21	3-9-21	
Iodomethane	ND	12	EPA 8260D	3-9-21	3-9-21	
Carbon Disulfide	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Methylene Chloride	ND	12	EPA 8260D	3-9-21	3-9-21	
(trans) 1,2-Dichloroethene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Methyl t-Butyl Ether	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,1-Dichloroethane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Vinyl Acetate	ND	12	EPA 8260D	3-9-21	3-9-21	
2,2-Dichloropropane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
(cis) 1,2-Dichloroethene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
2-Butanone	ND	12	EPA 8260D	3-9-21	3-9-21	
Bromochloromethane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Chloroform	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,1,1-Trichloroethane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Carbon Tetrachloride	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,1-Dichloropropene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Benzene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,2-Dichloroethane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Trichloroethene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,2-Dichloropropane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Dibromomethane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Bromodichloromethane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
2-Chloroethyl Vinyl Ether	ND	12	EPA 8260D	3-9-21	3-9-21	
(cis) 1,3-Dichloropropene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Methyl Isobutyl Ketone	ND	12	EPA 8260D	3-9-21	3-9-21	
Toluene	69	12	EPA 8260D	3-9-21	3-9-21	
(trans) 1,3-Dichloropropene	ND	2.4	EPA 8260D	3-9-21	3-9-21	

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist 3-line**					
Laboratory ID:	03-085-03					
1,1,2-Trichloroethane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Tetrachloroethene	6.7	2.4	EPA 8260D	3-9-21	3-9-21	
1,3-Dichloropropane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
2-Hexanone	ND	12	EPA 8260D	3-9-21	3-9-21	
Dibromochloromethane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,2-Dibromoethane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Chlorobenzene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,1,1,2-Tetrachloroethane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Ethylbenzene	3.7	2.4	EPA 8260D	3-9-21	3-9-21	
m,p-Xylene	17	4.7	EPA 8260D	3-9-21	3-9-21	
o-Xylene	6.9	2.4	EPA 8260D	3-9-21	3-9-21	
Styrene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Bromoform	ND	12	EPA 8260D	3-9-21	3-9-21	
Isopropylbenzene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Bromobenzene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,1,2,2-Tetrachloroethane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,2,3-Trichloropropane	ND	2.4	EPA 8260D	3-9-21	3-9-21	
n-Propylbenzene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
2-Chlorotoluene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
4-Chlorotoluene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,3,5-Trimethylbenzene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
tert-Butylbenzene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,2,4-Trimethylbenzene	3.0	2.4	EPA 8260D	3-9-21	3-9-21	
sec-Butylbenzene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,3-Dichlorobenzene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
p-Isopropyltoluene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,4-Dichlorobenzene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,2-Dichlorobenzene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
n-Butylbenzene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
1,2-Dibromo-3-chloropropane	ND	12	EPA 8260D	3-9-21	3-9-21	
1,2,4-Trichlorobenzene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Hexachlorobutadiene	ND	12	EPA 8260D	3-9-21	3-9-21	
Naphthalene	ND	12	EPA 8260D	3-9-21	3-9-21	
1,2,3-Trichlorobenzene	ND	2.4	EPA 8260D	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*74-131*				
Toluene-d8	*107*	*78-128*				
4-Bromofluorobenzene	*103*	*71-130*				

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Product
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309P1					
Dichlorodifluoromethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Chloromethane	ND	0.34	EPA 8260D	3-9-21	3-9-21	
Vinyl Chloride	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Bromomethane	ND	0.25	EPA 8260D	3-9-21	3-9-21	
Chloroethane	ND	0.25	EPA 8260D	3-9-21	3-9-21	
Trichlorofluoromethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,1-Dichloroethene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Acetone	ND	0.50	EPA 8260D	3-9-21	3-9-21	
Iodomethane	ND	0.25	EPA 8260D	3-9-21	3-9-21	
Carbon Disulfide	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Methylene Chloride	ND	0.25	EPA 8260D	3-9-21	3-9-21	
(trans) 1,2-Dichloroethene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Methyl t-Butyl Ether	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,1-Dichloroethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Vinyl Acetate	ND	0.25	EPA 8260D	3-9-21	3-9-21	
2,2-Dichloropropane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
(cis) 1,2-Dichloroethene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
2-Butanone	ND	0.25	EPA 8260D	3-9-21	3-9-21	
Bromochloromethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Chloroform	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,1,1-Trichloroethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Carbon Tetrachloride	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,1-Dichloropropene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Benzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,2-Dichloroethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Trichloroethene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,2-Dichloropropane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Dibromomethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Bromodichloromethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
2-Chloroethyl Vinyl Ether	ND	0.25	EPA 8260D	3-9-21	3-9-21	
(cis) 1,3-Dichloropropene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Methyl Isobutyl Ketone	ND	0.25	EPA 8260D	3-9-21	3-9-21	
Toluene	ND	0.25	EPA 8260D	3-9-21	3-9-21	
(trans) 1,3-Dichloropropene	ND	0.050	EPA 8260D	3-9-21	3-9-21	

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309P1					
1,1,2-Trichloroethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Tetrachloroethene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,3-Dichloropropane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
2-Hexanone	ND	0.25	EPA 8260D	3-9-21	3-9-21	
Dibromochloromethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,2-Dibromoethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Chlorobenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,1,1,2-Tetrachloroethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Ethylbenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
m,p-Xylene	ND	0.10	EPA 8260D	3-9-21	3-9-21	
o-Xylene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Styrene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Bromoform	ND	0.25	EPA 8260D	3-9-21	3-9-21	
Isopropylbenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Bromobenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,1,2,2-Tetrachloroethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,2,3-Trichloropropane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
n-Propylbenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
2-Chlorotoluene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
4-Chlorotoluene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,3,5-Trimethylbenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
tert-Butylbenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,2,4-Trimethylbenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
sec-Butylbenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,3-Dichlorobenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
p-Isopropyltoluene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,4-Dichlorobenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,2-Dichlorobenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
n-Butylbenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,2-Dibromo-3-chloropropane	ND	0.25	EPA 8260D	3-9-21	3-9-21	
1,2,4-Trichlorobenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Hexachlorobutadiene	ND	0.25	EPA 8260D	3-9-21	3-9-21	
Naphthalene	ND	0.25	EPA 8260D	3-9-21	3-9-21	
1,2,3-Trichlorobenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*74-131*				
Toluene-d8	*98*	*78-128*				
4-Bromofluorobenzene	*94*	*71-130*				

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Product
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0309P1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0497**	**0.0484**	0.0500	0.0500	99	97	55-126	3	17	
Benzene	**0.0475**	**0.0462**	0.0500	0.0500	95	92	65-121	3	16	
Trichloroethene	**0.0524**	**0.0520**	0.0500	0.0500	105	104	74-126	1	16	
Toluene	**0.0464**	**0.0459**	0.0500	0.0500	93	92	71-121	1	16	
Chlorobenzene	**0.0499**	**0.0475**	0.0500	0.0500	100	95	72-123	5	16	
Surrogate:										
Dibromofluoromethane					*105*	*102*	*74-131*			
Toluene-d8					*99*	*100*	*78-128*			
4-Bromofluorobenzene					*103*	*101*	*71-130*			

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

PCBs EPA 8082A

Matrix: Product
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist 4-line**					
Laboratory ID:	03-085-01					
Aroclor 1016	**ND**	0.98	EPA 8082A	3-9-21	3-9-21	
Aroclor 1221	**ND**	0.98	EPA 8082A	3-9-21	3-9-21	
Aroclor 1232	**ND**	0.98	EPA 8082A	3-9-21	3-9-21	
Aroclor 1242	**ND**	0.98	EPA 8082A	3-9-21	3-9-21	
Aroclor 1248	**ND**	0.98	EPA 8082A	3-9-21	3-9-21	
Aroclor 1254	**ND**	0.98	EPA 8082A	3-9-21	3-9-21	
Aroclor 1260	**ND**	0.98	EPA 8082A	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*94*	*63-125*				
Client ID:	**Hoist 3-line**					
Laboratory ID:	03-085-03					
Aroclor 1016	**ND**	0.98	EPA 8082A	3-9-21	3-9-21	
Aroclor 1221	**ND**	0.98	EPA 8082A	3-9-21	3-9-21	
Aroclor 1232	**ND**	0.98	EPA 8082A	3-9-21	3-9-21	
Aroclor 1242	**ND**	0.98	EPA 8082A	3-9-21	3-9-21	
Aroclor 1248	**ND**	0.98	EPA 8082A	3-9-21	3-9-21	
Aroclor 1254	**ND**	0.98	EPA 8082A	3-9-21	3-9-21	
Aroclor 1260	**ND**	0.98	EPA 8082A	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*66*	*63-125*				

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Product
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309O1					
Aroclor 1016	**ND**	0.99	EPA 8082A	3-9-21	3-9-21	
Aroclor 1221	**ND**	0.99	EPA 8082A	3-9-21	3-9-21	
Aroclor 1232	**ND**	0.99	EPA 8082A	3-9-21	3-9-21	
Aroclor 1242	**ND**	0.99	EPA 8082A	3-9-21	3-9-21	
Aroclor 1248	**ND**	0.99	EPA 8082A	3-9-21	3-9-21	
Aroclor 1254	**ND**	0.99	EPA 8082A	3-9-21	3-9-21	
Aroclor 1260	**ND**	0.99	EPA 8082A	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*100*	*63-125*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-085-03										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**9.05**	**9.09**	9.85	9.95	ND	**92**	**91**	54-121	0	15	
Surrogate:											
DCB						*65*	*66*	*63-125*			

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

TOTAL METALS
EPA 6010D/7471B

Matrix: Product
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist 4-line**					
Laboratory ID:	03-085-01					
Arsenic	**ND**	10	EPA 6010D	3-9-21	3-9-21	
Barium	**ND**	2.5	EPA 6010D	3-9-21	3-9-21	
Cadmium	**ND**	0.50	EPA 6010D	3-9-21	3-9-21	
Chromium	**ND**	0.50	EPA 6010D	3-9-21	3-9-21	
Lead	**13**	5.0	EPA 6010D	3-9-21	3-9-21	
Mercury	**ND**	0.25	EPA 7471B	3-9-21	3-9-21	
Selenium	**ND**	10	EPA 6010D	3-9-21	3-9-21	
Silver	**ND**	1.0	EPA 6010D	3-9-21	3-9-21	
Client ID:	**Hoist 3-line**					
Laboratory ID:	03-085-03					
Arsenic	**ND**	10	EPA 6010D	3-9-21	3-9-21	
Barium	**ND**	2.5	EPA 6010D	3-9-21	3-9-21	
Cadmium	**ND**	0.50	EPA 6010D	3-9-21	3-9-21	
Chromium	**ND**	0.50	EPA 6010D	3-9-21	3-9-21	
Lead	**30**	5.0	EPA 6010D	3-9-21	3-9-21	
Mercury	**ND**	0.25	EPA 7471B	3-9-21	3-9-21	
Selenium	**ND**	10	EPA 6010D	3-9-21	3-9-21	
Silver	**ND**	1.0	EPA 6010D	3-9-21	3-9-21	

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Product
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309PH1					
Arsenic	**ND**	10	EPA 6010D	3-9-21	3-9-21	
Barium	**ND**	2.5	EPA 6010D	3-9-21	3-9-21	
Cadmium	**ND**	0.50	EPA 6010D	3-9-21	3-9-21	
Chromium	**ND**	0.50	EPA 6010D	3-9-21	3-9-21	
Lead	**ND**	5.0	EPA 6010D	3-9-21	3-9-21	
Selenium	**ND**	10	EPA 6010D	3-9-21	3-9-21	
Silver	**ND**	1.0	EPA 6010D	3-9-21	3-9-21	
Laboratory ID:	MB0309P1					
Mercury	**ND**	0.25	EPA 7471B	3-9-21	3-9-21	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	02-085-01									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**13.0**	**12.3**	NA	NA		NA	NA	6	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**2.52**	NA	NA		NA	NA	NA	20	
Laboratory ID:	02-085-01									
Mercury	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	02-085-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**86.9**	**85.6**	100	100	ND	**87**	**86**	75-125	1	20
Barium	**97.0**	**95.5**	100	100	ND	**97**	**96**	75-125	2	20
Cadmium	**46.1**	**45.8**	50.0	50.0	ND	**92**	**92**	75-125	1	20
Chromium	**99.2**	**98.0**	100	100	ND	**99**	**98**	75-125	1	20
Lead	**252**	**250**	250	250	13.0	**96**	**95**	75-125	1	20
Selenium	**97.3**	**96.6**	100	100	ND	**97**	**97**	75-125	1	20
Silver	**22.9**	**22.7**	25.0	25.0	ND	**91**	**91**	75-125	1	20
Laboratory ID:	02-085-01									
Mercury	**0.433**	**0.437**	0.500	0.500	ND	**87**	**87**	80-120	1	20

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PAHs EPA 8270E/SIM

Matrix: Product
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist 4-line**					
Laboratory ID:	03-085-01					
Benzo[a]anthracene	**ND**	3.7	EPA 8270E/SIM	3-8-21	3-8-21	
Chrysene	**22**	3.7	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo[b]fluoranthene	**ND**	3.7	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo(j,k)fluoranthene	**ND**	3.7	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo[a]pyrene	**ND**	3.7	EPA 8270E/SIM	3-8-21	3-8-21	
Indeno(1,2,3-c,d)pyrene	**ND**	3.7	EPA 8270E/SIM	3-8-21	3-8-21	
Dibenz[a,h]anthracene	**ND**	3.7	EPA 8270E/SIM	3-8-21	3-8-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*87*	*46 - 113*				
Pyrene-d10	*109*	*45 - 114*				
Terphenyl-d14	*108*	*49 - 121*				

Date of Report: March 9, 2021
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Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Product
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist 3-line**					
Laboratory ID:	03-085-03					
Benzo[a]anthracene	**ND**	3.7	EPA 8270E/SIM	3-8-21	3-8-21	
Chrysene	**6.7**	3.7	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo[b]fluoranthene	**ND**	3.7	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo(j,k)fluoranthene	**ND**	3.7	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo[a]pyrene	**ND**	3.7	EPA 8270E/SIM	3-8-21	3-8-21	
Indeno(1,2,3-c,d)pyrene	**ND**	3.7	EPA 8270E/SIM	3-8-21	3-8-21	
Dibenz[a,h]anthracene	**ND**	3.7	EPA 8270E/SIM	3-8-21	3-8-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*89*	*46 - 113*				
Pyrene-d10	*106*	*45 - 114*				
Terphenyl-d14	*108*	*49 - 121*				

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Product
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308P1					
Benzo[a]anthracene	**ND**	0.040	EPA 8270E/SIM	3-8-21	3-8-21	
Chrysene	**ND**	0.040	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo[b]fluoranthene	**ND**	0.040	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo(j,k)fluoranthene	**ND**	0.040	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo[a]pyrene	**ND**	0.040	EPA 8270E/SIM	3-8-21	3-8-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.040	EPA 8270E/SIM	3-8-21	3-8-21	
Dibenz[a,h]anthracene	**ND**	0.040	EPA 8270E/SIM	3-8-21	3-8-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*97*	*46 - 113*				
Pyrene-d10	*102*	*45 - 114*				
Terphenyl-d14	*117*	*49 - 121*				

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-085
Project: 397-035

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Product
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0308P1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	**1.31**	**1.27**	1.25	1.25	105	102	72 - 129	3	15	
Chrysene	**1.28**	**1.29**	1.25	1.25	102	103	66 - 123	1	15	
Benzo[b]fluoranthene	**1.37**	**1.35**	1.25	1.25	110	108	68 - 128	1	15	
Benzo(j,k)fluoranthene	**1.30**	**1.28**	1.25	1.25	104	102	63 - 128	2	16	
Benzo[a]pyrene	**1.34**	**1.31**	1.25	1.25	107	105	66 - 130	2	15	
Indeno(1,2,3-c,d)pyrene	**1.31**	**1.31**	1.25	1.25	105	105	63 - 135	0	15	
Dibenz[a,h]anthracene	**1.35**	**1.32**	1.25	1.25	108	106	65 - 130	2	15	
Surrogate:										
2-Fluorobiphenyl					*100*	*99*	*46 - 113*			
Pyrene-d10					*104*	*103*	*45 - 114*			
Terphenyl-d14					*113*	*112*	*49 - 121*			

OnSite Environmental Inc.

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.

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.

Z -

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

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

Chain of Custody

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Laboratory Number: 03-085

Company: Farallon
Project Number: 397-035
Project Name: Block 79
Project Manager: Eric Buer
Sampled by: Courtney van Stolk

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

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals (RCRA 8)	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	cPAH 8270		HOLD DB		% Moisture
1	Hoist 4-line	3-8	1015	product	1	X		X	X	X					X				X				X				
2	Hoist 51-hoist	↓	1020	water	1	~~X~~		~~X~~	~~X~~	~~X~~		NO. DB			~~X~~				~~X~~				~~X~~		X		
3	Hoist 3-line	↓	1030	product	1	X		X	X	X					X				X				X				

	Signature	Company	Date	Time
Relinquished	[signature]	Farallon	3-8	1200
Received	[signature]	Speedy	3-8-21	1200
Relinquished	[signature]	Speedy	3-8-21	1325
Received	[signature]	OSE	3/8/21	1325
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

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

March 9, 2021

Eric Buer
Farallon Consulting
1809 7th Avenue, Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 397-035
Laboratory Reference No. 2103-087

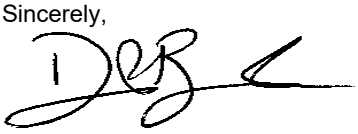
Dear Eric:

Enclosed are the analytical results and associated quality control data for samples submitted on March 8, 2021.

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

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

Sincerely,



David Baumeister
Project Manager

Enclosures

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

Case Narrative

Samples were collected on March 8, 2021 and received by the laboratory on March 8, 2021. 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.

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 (soil) Analysis

Some MTCA Method A cleanup levels are not achievable for sample UST-A-top due to the necessary dilution of the sample.

Total Metals EPA 6010D/7471B (soil) Analysis

The duplicate RPD for Barium, Lead and Mercury outside control limits due to sample inhomogeneity.

The Matrix Spike/ Matrix Spike Duplicate recoveries for Lead and Mercury are outside control limits due to matrix inhomogeneity . The Spike Blank recovery was 98% for Lead and 111% for Mercury.

The Matrix Spike/Matrix Spike Duplicate RPD for Lead is outside control limits due to matrix inhomogeneity

PAHs EPA 8270E/SIM (soil) Analysis

Sample UST-A-top had one surrogate recovery outside of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%

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

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Product
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-product**					
Laboratory ID:	03-087-01					
Gasoline	**870**	480	NWTPH-Gx	3-9-21	3-9-21	O
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*102*	*58-129*				

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
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Project: 397-035

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Product
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309P1					
Gasoline	**ND**	5.0	NWTPH-Gx	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*58-129*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-085-01										
	ORIG	DUP									
Gasoline	**879**	**908**	NA	NA		NA		NA	3	30	
Surrogate:											
Fluorobenzene						*94*	*95*	*58-129*			

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
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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:	**UST-A-top**					
Laboratory ID:	03-087-02					
Gasoline	**ND**	19	NWTPH-Gx	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*77*	*58-129*				

Date of Report: March 9, 2021
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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:	MB0309S2					
Gasoline	**ND**	5.0	NWTPH-Gx	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*58-129*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-087-02										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*77*	*74*	*58-129*			

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Product
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-product**					
Laboratory ID:	03-087-01					
Diesel Range Organics	**63000**	24000	NWTPH-Dx	3-8-21	3-9-21	N
Lube Oil	**530000**	48000	NWTPH-Dx	3-8-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	---	*50-150*				S

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Product
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308P1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	3-8-21	3-8-21	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	3-8-21	3-8-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	SB0308P1										
	ORIG	DUP									
Diesel Fuel #2	**86.7**	**84.8**	NA	NA		NA		NA	2	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*97*	*97*	*50-150*			

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

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:	**UST-A-top**					
Laboratory ID:	03-087-02					
Diesel Range Organics	**11000**	1900	NWTPH-Dx	3-8-21	3-9-21	N
Lube Oil	**73000**	3700	NWTPH-Dx	3-8-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	---	*50-150*				S

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

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:	MB0308S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	3-8-21	3-8-21	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	3-8-21	3-8-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*90*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	SB0308S1									
	ORIG	DUP								
Diesel Fuel #2	**87.9**	**73.3**	NA	NA		NA	NA	18	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						*98* *88*	*50-150*			

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Product
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-product**					
Laboratory ID:	03-087-01					
Dichlorodifluoromethane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Chloromethane	ND	16	EPA 8260D	3-9-21	3-9-21	
Vinyl Chloride	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Bromomethane	ND	12	EPA 8260D	3-9-21	3-9-21	
Chloroethane	ND	12	EPA 8260D	3-9-21	3-9-21	
Trichlorofluoromethane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
1,1-Dichloroethene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Iodomethane	ND	12	EPA 8260D	3-9-21	3-9-21	
Methylene Chloride	ND	12	EPA 8260D	3-9-21	3-9-21	
(trans) 1,2-Dichloroethene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
1,1-Dichloroethane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
2,2-Dichloropropane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
(cis) 1,2-Dichloroethene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Bromochloromethane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Chloroform	ND	2.3	EPA 8260D	3-9-21	3-9-21	
1,1,1-Trichloroethane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Carbon Tetrachloride	ND	2.3	EPA 8260D	3-9-21	3-9-21	
1,1-Dichloropropene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Benzene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
1,2-Dichloroethane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Trichloroethene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
1,2-Dichloropropane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Dibromomethane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Bromodichloromethane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
2-Chloroethyl Vinyl Ether	ND	12	EPA 8260D	3-9-21	3-9-21	
(cis) 1,3-Dichloropropene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Toluene	ND	12	EPA 8260D	3-9-21	3-9-21	
(trans) 1,3-Dichloropropene	ND	2.3	EPA 8260D	3-9-21	3-9-21	

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-product**					
Laboratory ID:	03-087-01					
1,1,2-Trichloroethane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Tetrachloroethene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
1,3-Dichloropropane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Dibromochloromethane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
1,2-Dibromoethane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Chlorobenzene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
1,1,1,2-Tetrachloroethane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Ethylbenzene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
m,p-Xylene	ND	4.6	EPA 8260D	3-9-21	3-9-21	
o-Xylene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Bromoform	ND	12	EPA 8260D	3-9-21	3-9-21	
Bromobenzene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
1,1,2,2-Tetrachloroethane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
1,2,3-Trichloropropane	ND	2.3	EPA 8260D	3-9-21	3-9-21	
2-Chlorotoluene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
4-Chlorotoluene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
1,3-Dichlorobenzene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
1,4-Dichlorobenzene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
1,2-Dichlorobenzene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
1,2-Dibromo-3-chloropropane	ND	12	EPA 8260D	3-9-21	3-9-21	
1,2,4-Trichlorobenzene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Hexachlorobutadiene	ND	12	EPA 8260D	3-9-21	3-9-21	
1,2,3-Trichlorobenzene	ND	2.3	EPA 8260D	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*74-131*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*97*	*71-130*				

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Product
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309P1					
Dichlorodifluoromethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Chloromethane	ND	0.34	EPA 8260D	3-9-21	3-9-21	
Vinyl Chloride	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Bromomethane	ND	0.25	EPA 8260D	3-9-21	3-9-21	
Chloroethane	ND	0.25	EPA 8260D	3-9-21	3-9-21	
Trichlorofluoromethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,1-Dichloroethene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Iodomethane	ND	0.25	EPA 8260D	3-9-21	3-9-21	
Methylene Chloride	ND	0.25	EPA 8260D	3-9-21	3-9-21	
(trans) 1,2-Dichloroethene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,1-Dichloroethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
2,2-Dichloropropane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
(cis) 1,2-Dichloroethene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Bromochloromethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Chloroform	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,1,1-Trichloroethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Carbon Tetrachloride	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,1-Dichloropropene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Benzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,2-Dichloroethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Trichloroethene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,2-Dichloropropane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Dibromomethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Bromodichloromethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
2-Chloroethyl Vinyl Ether	ND	0.25	EPA 8260D	3-9-21	3-9-21	
(cis) 1,3-Dichloropropene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Toluene	ND	0.25	EPA 8260D	3-9-21	3-9-21	
(trans) 1,3-Dichloropropene	ND	0.050	EPA 8260D	3-9-21	3-9-21	

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309P1					
1,1,2-Trichloroethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Tetrachloroethene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,3-Dichloropropane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Dibromochloromethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,2-Dibromoethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Chlorobenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,1,1,2-Tetrachloroethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Ethylbenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
m,p-Xylene	ND	0.10	EPA 8260D	3-9-21	3-9-21	
o-Xylene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Bromoform	ND	0.25	EPA 8260D	3-9-21	3-9-21	
Bromobenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,1,2,2-Tetrachloroethane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,2,3-Trichloropropane	ND	0.050	EPA 8260D	3-9-21	3-9-21	
2-Chlorotoluene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
4-Chlorotoluene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,3-Dichlorobenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,4-Dichlorobenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,2-Dichlorobenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
1,2-Dibromo-3-chloropropane	ND	0.25	EPA 8260D	3-9-21	3-9-21	
1,2,4-Trichlorobenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Hexachlorobutadiene	ND	0.25	EPA 8260D	3-9-21	3-9-21	
1,2,3-Trichlorobenzene	ND	0.050	EPA 8260D	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*74-131*				
Toluene-d8	*98*	*78-128*				
4-Bromofluorobenzene	*94*	*71-130*				

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Product
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0309P1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0497**	**0.0484**	0.0500	0.0500	99	97	55-126	3	17	
Benzene	**0.0475**	**0.0462**	0.0500	0.0500	95	92	65-121	3	16	
Trichloroethene	**0.0524**	**0.0520**	0.0500	0.0500	105	104	74-126	1	16	
Toluene	**0.0464**	**0.0459**	0.0500	0.0500	93	92	71-121	1	16	
Chlorobenzene	**0.0499**	**0.0475**	0.0500	0.0500	100	95	72-123	5	16	
Surrogate:										
Dibromofluoromethane					*105*	*102*	*74-131*			
Toluene-d8					*99*	*100*	*78-128*			
4-Bromofluorobenzene					*103*	*101*	*71-130*			

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-top**					
Laboratory ID:	03-087-02					
Dichlorodifluoromethane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Chloromethane	ND	0.75	EPA 8260D	3-8-21	3-9-21	
Vinyl Chloride	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Bromomethane	ND	0.56	EPA 8260D	3-8-21	3-9-21	
Chloroethane	ND	0.56	EPA 8260D	3-8-21	3-9-21	
Trichlorofluoromethane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
1,1-Dichloroethene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Iodomethane	ND	0.56	EPA 8260D	3-8-21	3-9-21	
Methylene Chloride	ND	0.56	EPA 8260D	3-8-21	3-9-21	
(trans) 1,2-Dichloroethene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
1,1-Dichloroethane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
2,2-Dichloropropane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
(cis) 1,2-Dichloroethene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Bromochloromethane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Chloroform	ND	0.11	EPA 8260D	3-8-21	3-9-21	
1,1,1-Trichloroethane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Carbon Tetrachloride	ND	0.11	EPA 8260D	3-8-21	3-9-21	
1,1-Dichloropropene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Benzene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
1,2-Dichloroethane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Trichloroethene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
1,2-Dichloropropane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Dibromomethane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Bromodichloromethane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
2-Chloroethyl Vinyl Ether	ND	0.56	EPA 8260D	3-8-21	3-9-21	
(cis) 1,3-Dichloropropene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Toluene	ND	0.56	EPA 8260D	3-8-21	3-9-21	
(trans) 1,3-Dichloropropene	ND	0.11	EPA 8260D	3-8-21	3-9-21	

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-top**					
Laboratory ID:	03-087-02					
1,1,2-Trichloroethane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Tetrachloroethene	0.40	0.11	EPA 8260D	3-8-21	3-9-21	
1,3-Dichloropropane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Dibromochloromethane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
1,2-Dibromoethane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Chlorobenzene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
1,1,1,2-Tetrachloroethane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Ethylbenzene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
m,p-Xylene	ND	0.22	EPA 8260D	3-8-21	3-9-21	
o-Xylene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Bromoform	ND	0.56	EPA 8260D	3-8-21	3-9-21	
Bromobenzene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
1,1,2,2-Tetrachloroethane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
1,2,3-Trichloropropane	ND	0.11	EPA 8260D	3-8-21	3-9-21	
2-Chlorotoluene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
4-Chlorotoluene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
1,3-Dichlorobenzene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
1,4-Dichlorobenzene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
1,2-Dichlorobenzene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
1,2-Dibromo-3-chloropropane	ND	0.56	EPA 8260D	3-8-21	3-9-21	
1,2,4-Trichlorobenzene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Hexachlorobutadiene	ND	0.56	EPA 8260D	3-8-21	3-9-21	
1,2,3-Trichlorobenzene	ND	0.11	EPA 8260D	3-8-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*74-131*				
Toluene-d8	*99*	*78-128*				
4-Bromofluorobenzene	*97*	*71-130*				

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

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:	MB0308S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Chloromethane	ND	0.0050	EPA 8260D	3-8-21	3-8-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Bromomethane	ND	0.0050	EPA 8260D	3-8-21	3-8-21	
Chloroethane	ND	0.0050	EPA 8260D	3-8-21	3-8-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Iodomethane	ND	0.0050	EPA 8260D	3-8-21	3-8-21	
Methylene Chloride	ND	0.0050	EPA 8260D	3-8-21	3-8-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Bromochloromethane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Chloroform	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Benzene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Trichloroethene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Dibromomethane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	3-8-21	3-8-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Toluene	ND	0.0050	EPA 8260D	3-8-21	3-8-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Chlorobenzene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Ethylbenzene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
m,p-Xylene	ND	0.0020	EPA 8260D	3-8-21	3-8-21	
o-Xylene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Bromoform	ND	0.0050	EPA 8260D	3-8-21	3-8-21	
Bromobenzene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260D	3-8-21	3-8-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
1,2-Dibromo-3-chloropropane	ND	0.0069	EPA 8260D	3-8-21	3-8-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	3-8-21	3-8-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	3-8-21	3-8-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*74-131*				
Toluene-d8	*98*	*78-128*				
4-Bromofluorobenzene	*107*	*71-130*				

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0308S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0599**	**0.0591**	0.0500	0.0500	120	118	55-126	1	17	
Benzene	**0.0517**	**0.0519**	0.0500	0.0500	103	104	65-121	0	16	
Trichloroethene	**0.0591**	**0.0586**	0.0500	0.0500	118	117	74-126	1	16	
Toluene	**0.0547**	**0.0548**	0.0500	0.0500	109	110	71-121	0	16	
Chlorobenzene	**0.0497**	**0.0500**	0.0500	0.0500	99	100	72-123	1	16	
Surrogate:										
Dibromofluoromethane					*97*	*94*	*74-131*			
Toluene-d8					*99*	*100*	*78-128*			
4-Bromofluorobenzene					*103*	*107*	*71-130*			

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

PCBs EPA 8082A

Matrix: Product
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-product**					
Laboratory ID:	03-087-01					
Aroclor 1016	**ND**	1.0	EPA 8082A	3-9-21	3-9-21	
Aroclor 1221	**ND**	1.0	EPA 8082A	3-9-21	3-9-21	
Aroclor 1232	**ND**	1.0	EPA 8082A	3-9-21	3-9-21	
Aroclor 1242	**ND**	1.0	EPA 8082A	3-9-21	3-9-21	
Aroclor 1248	**ND**	1.0	EPA 8082A	3-9-21	3-9-21	
Aroclor 1254	**ND**	1.0	EPA 8082A	3-9-21	3-9-21	
Aroclor 1260	**ND**	1.0	EPA 8082A	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*82*	*63-125*				

Date of Report: March 9, 2021
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Project: 397-035

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Product
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309O1					
Aroclor 1016	**ND**	0.99	EPA 8082A	3-9-21	3-9-21	
Aroclor 1221	**ND**	0.99	EPA 8082A	3-9-21	3-9-21	
Aroclor 1232	**ND**	0.99	EPA 8082A	3-9-21	3-9-21	
Aroclor 1242	**ND**	0.99	EPA 8082A	3-9-21	3-9-21	
Aroclor 1248	**ND**	0.99	EPA 8082A	3-9-21	3-9-21	
Aroclor 1254	**ND**	0.99	EPA 8082A	3-9-21	3-9-21	
Aroclor 1260	**ND**	0.99	EPA 8082A	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*100*	*63-125*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-085-03										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**9.05**	**9.09**	9.85	9.95	ND	**92**	**91**	54-121	0	15	
Surrogate:											
DCB						*65*	*66*	*63-125*			

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-top**					
Laboratory ID:	03-087-02					
Aroclor 1016	**ND**	0.075	EPA 8082A	3-8-21	3-9-21	
Aroclor 1221	**ND**	0.075	EPA 8082A	3-8-21	3-9-21	
Aroclor 1232	**ND**	0.075	EPA 8082A	3-8-21	3-9-21	
Aroclor 1242	**ND**	0.075	EPA 8082A	3-8-21	3-9-21	
Aroclor 1248	**ND**	0.075	EPA 8082A	3-8-21	3-9-21	
Aroclor 1254	**ND**	0.075	EPA 8082A	3-8-21	3-9-21	
Aroclor 1260	**0.20**	0.075	EPA 8082A	3-8-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*63*	*46-125*				

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
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Project: 397-035

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	3-8-21	3-9-21	
Aroclor 1221	**ND**	0.050	EPA 8082A	3-8-21	3-9-21	
Aroclor 1232	**ND**	0.050	EPA 8082A	3-8-21	3-9-21	
Aroclor 1242	**ND**	0.050	EPA 8082A	3-8-21	3-9-21	
Aroclor 1248	**ND**	0.050	EPA 8082A	3-8-21	3-9-21	
Aroclor 1254	**ND**	0.050	EPA 8082A	3-8-21	3-9-21	
Aroclor 1260	**ND**	0.050	EPA 8082A	3-8-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*93*	*46-125*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-087-02										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.468**	**0.439**	0.500	0.500	0.134	**67**	**61**	43-125	6	15	
Surrogate:											
DCB						*65*	*71*	*46-125*			

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
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Project: 397-035

TOTAL METALS
EPA 6010D/7471B

Matrix: Product
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-product**					
Laboratory ID:	03-087-01					
Arsenic	**ND**	10	EPA 6010D	3-9-21	3-9-21	
Barium	**7.9**	2.5	EPA 6010D	3-9-21	3-9-21	
Cadmium	**0.55**	0.50	EPA 6010D	3-9-21	3-9-21	
Chromium	**2.4**	0.50	EPA 6010D	3-9-21	3-9-21	
Lead	**81**	5.0	EPA 6010D	3-9-21	3-9-21	
Mercury	**ND**	0.25	EPA 7471B	3-9-21	3-9-21	
Selenium	**ND**	10	EPA 6010D	3-9-21	3-9-21	
Silver	**ND**	1.0	EPA 6010D	3-9-21	3-9-21	

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TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Product
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309PH1					
Arsenic	**ND**	10	EPA 6010D	3-9-21	3-9-21	
Barium	**ND**	2.5	EPA 6010D	3-9-21	3-9-21	
Cadmium	**ND**	0.50	EPA 6010D	3-9-21	3-9-21	
Chromium	**ND**	0.50	EPA 6010D	3-9-21	3-9-21	
Lead	**ND**	5.0	EPA 6010D	3-9-21	3-9-21	
Selenium	**ND**	10	EPA 6010D	3-9-21	3-9-21	
Silver	**ND**	1.0	EPA 6010D	3-9-21	3-9-21	
Laboratory ID:	MB0309P1					
Mercury	**ND**	0.25	EPA 7471B	3-9-21	3-9-21	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	02-085-01									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**13.0**	**12.3**	NA	NA		NA	NA	6	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**2.52**	NA	NA		NA	NA	NA	20	
Laboratory ID:	02-085-01									
Mercury	**ND**	**ND**	NA	NA		NA	NA	NA	20	

MATRIX SPIKES										
Laboratory ID:	02-085-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**86.9**	**85.6**	100	100	ND	**87**	**86**	75-125	1	20
Barium	**97.0**	**95.5**	100	100	ND	**97**	**96**	75-125	2	20
Cadmium	**46.1**	**45.8**	50.0	50.0	ND	**92**	**92**	75-125	1	20
Chromium	**99.2**	**98.0**	100	100	ND	**99**	**98**	75-125	1	20
Lead	**252**	**250**	250	250	13.0	**96**	**95**	75-125	1	20
Selenium	**97.3**	**96.6**	100	100	ND	**97**	**97**	75-125	1	20
Silver	**22.9**	**22.7**	25.0	25.0	ND	**91**	**91**	75-125	1	20
Laboratory ID:	02-085-01									
Mercury	**0.433**	**0.437**	0.500	0.500	ND	**87**	**87**	80-120	1	20

Date of Report: March 9, 2021
Samples Submitted: March 8, 2021
Laboratory Reference: 2103-087
Project: 397-035

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-top**					
Laboratory ID:	03-087-02					
Arsenic	**ND**	15	EPA 6010D	3-9-21	3-9-21	
Barium	**86**	3.7	EPA 6010D	3-9-21	3-9-21	
Cadmium	**2.1**	0.75	EPA 6010D	3-9-21	3-9-21	
Chromium	**21**	0.75	EPA 6010D	3-9-21	3-9-21	
Lead	**470**	7.5	EPA 6010D	3-9-21	3-9-21	
Mercury	**0.39**	0.15	EPA 7471B	3-9-21	3-9-21	
Selenium	**ND**	15	EPA 6010D	3-9-21	3-9-21	
Silver	**ND**	1.5	EPA 6010D	3-9-21	3-9-21	

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TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309SH1					
Arsenic	**ND**	10	EPA 6010D	3-9-21	3-9-21	
Barium	**ND**	2.5	EPA 6010D	3-9-21	3-9-21	
Cadmium	**ND**	0.50	EPA 6010D	3-9-21	3-9-21	
Chromium	**ND**	0.50	EPA 6010D	3-9-21	3-9-21	
Lead	**ND**	5.0	EPA 6010D	3-9-21	3-9-21	
Selenium	**ND**	10	EPA 6010D	3-9-21	3-9-21	
Silver	**ND**	1.0	EPA 6010D	3-9-21	3-9-21	
Laboratory ID:	MB0309S1					
Mercury	**ND**	0.050	EPA 7471B	3-9-21	3-9-21	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	02-087-02									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**57.7**	**80.3**	NA	NA		NA	NA	33	20	L
Cadmium	**1.41**	**1.89**	NA	NA		NA	NA	29	20	C
Chromium	**13.8**	**15.4**	NA	NA		NA	NA	11	20	
Lead	**315**	**387**	NA	NA		NA	NA	21	20	L
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**1.01**	NA	NA		NA	NA	NA	20	
Laboratory ID:	02-087-02									
Mercury	**0.258**	**0.176**	NA	NA		NA	NA	38	20	L
MATRIX SPIKES										
Laboratory ID:	03-087-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**88.6**	**88.2**	100	100	ND	**89**	**88**	75-125	1	20	
Barium	**141**	**146**	100	100	57.7	**83**	**88**	75-125	3	20	
Cadmium	**46.0**	**47.4**	50.0	50.0	1.41	**89**	**92**	75-125	3	20	
Chromium	**104**	**105**	100	100	13.8	**90**	**91**	75-125	2	20	
Lead	**454**	**602**	250	250	315	**56**	**115**	75-125	28	20	V,W
Selenium	**82.9**	**83.8**	100	100	ND	**83**	**84**	75-125	1	20	
Silver	**22.8**	**24.2**	25.0	25.0	ND	**91**	**97**	75-125	6	20	
Laboratory ID:	03-087-02									
Mercury	**0.650**	**0.590**	0.500	0.500	0.258	**78**	**66**	80-120	10	20	V

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Laboratory Reference: 2103-087
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Product
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-product**					
Laboratory ID:	03-087-01					
Benzo[a]anthracene	**32**	4.0	EPA 8270E/SIM	3-8-21	3-8-21	
Chrysene	**21**	4.0	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo[b]fluoranthene	**19**	4.0	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo(j,k)fluoranthene	**4.1**	4.0	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo[a]pyrene	**20**	4.0	EPA 8270E/SIM	3-8-21	3-8-21	
Indeno(1,2,3-c,d)pyrene	**10**	4.0	EPA 8270E/SIM	3-8-21	3-8-21	
Dibenz[a,h]anthracene	**ND**	4.0	EPA 8270E/SIM	3-8-21	3-8-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*99*	*46 - 113*				
Pyrene-d10	*105*	*45 - 114*				
Terphenyl-d14	*111*	*49 - 121*				

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PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Product
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308P1					
Benzo[a]anthracene	**ND**	0.040	EPA 8270E/SIM	3-8-21	3-8-21	
Chrysene	**ND**	0.040	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo[b]fluoranthene	**ND**	0.040	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo(j,k)fluoranthene	**ND**	0.040	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo[a]pyrene	**ND**	0.040	EPA 8270E/SIM	3-8-21	3-8-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.040	EPA 8270E/SIM	3-8-21	3-8-21	
Dibenz[a,h]anthracene	**ND**	0.040	EPA 8270E/SIM	3-8-21	3-8-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*97*	*46 - 113*				
Pyrene-d10	*102*	*45 - 114*				
Terphenyl-d14	*117*	*49 - 121*				

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PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Product
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0308P1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	**1.31**	**1.27**	1.25	1.25	105	102	72 - 129	3	15	
Chrysene	**1.28**	**1.29**	1.25	1.25	102	103	66 - 123	1	15	
Benzo[b]fluoranthene	**1.37**	**1.35**	1.25	1.25	110	108	68 - 128	1	15	
Benzo(j,k)fluoranthene	**1.30**	**1.28**	1.25	1.25	104	102	63 - 128	2	16	
Benzo[a]pyrene	**1.34**	**1.31**	1.25	1.25	107	105	66 - 130	2	15	
Indeno(1,2,3-c,d)pyrene	**1.31**	**1.31**	1.25	1.25	105	105	63 - 135	0	15	
Dibenz[a,h]anthracene	**1.35**	**1.32**	1.25	1.25	108	106	65 - 130	2	15	
Surrogate:										
2-Fluorobiphenyl					*100*	*99*	*46 - 113*			
Pyrene-d10					*104*	*103*	*45 - 114*			
Terphenyl-d14					*113*	*112*	*49 - 121*			

Date of Report: March 9, 2021
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PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-top**					
Laboratory ID:	03-087-02					
Benzo[a]anthracene	**ND**	0.20	EPA 8270E/SIM	3-8-21	3-9-21	
Chrysene	**0.27**	0.20	EPA 8270E/SIM	3-8-21	3-9-21	
Benzo[b]fluoranthene	**0.99**	0.20	EPA 8270E/SIM	3-8-21	3-9-21	
Benzo(j,k)fluoranthene	**ND**	0.20	EPA 8270E/SIM	3-8-21	3-9-21	
Benzo[a]pyrene	**1.6**	0.20	EPA 8270E/SIM	3-8-21	3-9-21	
Indeno(1,2,3-c,d)pyrene	**1.5**	0.20	EPA 8270E/SIM	3-8-21	3-9-21	
Dibenz[a,h]anthracene	**ND**	0.20	EPA 8270E/SIM	3-8-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*43*	*46 - 113*				Q
Pyrene-d10	*55*	*45 - 114*				
Terphenyl-d14	*52*	*49 - 121*				

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PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270E/SIM	3-8-21	3-8-21	
Chrysene	**ND**	0.0067	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270E/SIM	3-8-21	3-8-21	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270E/SIM	3-8-21	3-8-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270E/SIM	3-8-21	3-8-21	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270E/SIM	3-8-21	3-8-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*97*	*46 - 113*				
Pyrene-d10	*100*	*45 - 114*				
Terphenyl-d14	*104*	*49 - 121*				

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PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0308S1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	**0.0859**	**0.0878**	0.0833	0.0833	103	105	72 - 129	2	15	
Chrysene	**0.0839**	**0.0868**	0.0833	0.0833	101	104	66 - 123	3	15	
Benzo[b]fluoranthene	**0.0916**	**0.0933**	0.0833	0.0833	110	112	68 - 128	2	15	
Benzo(j,k)fluoranthene	**0.0809**	**0.0816**	0.0833	0.0833	97	98	63 - 128	1	16	
Benzo[a]pyrene	**0.0859**	**0.0868**	0.0833	0.0833	103	104	66 - 130	1	15	
Indeno(1,2,3-c,d)pyrene	**0.0865**	**0.0836**	0.0833	0.0833	104	100	63 - 135	3	15	
Dibenz[a,h]anthracene	**0.0874**	**0.0877**	0.0833	0.0833	105	105	65 - 130	0	15	
Surrogate:										
2-Fluorobiphenyl					*82*	*85*	*46 - 113*			
Pyrene-d10					*83*	*89*	*45 - 114*			
Terphenyl-d14					*99*	*101*	*49 - 121*			

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% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
UST-A-top	03-087-02	**33**	3-8-21

OnSite Environmental Inc.

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.

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.

Z -

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

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Analytical Laboratory Testing Services
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Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Laboratory Number: 03-087

Company: Farallon
Project Number: 397-035
Project Name: Block 79
Project Manager: Eric Buer
Sampled by: Courtney van Stolk

Turnaround Request (in working days) (Check One)
- [x] Same Day — next day
- [x] 1 Day (struck through, initialed "OB")
- [ ] 2 Days
- [ ] 3 Days
- [ ] Standard (7 Days)
- [ ] ______ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX 8260	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals RCRA8	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	cPAH by 8270				% Moisture
1	UST-A-product	3-8	1420	product	1		X		X		X				X				X				X				
2	UST-A-top	3-8	1440	soil	5		X		X		X				X				X				X				X

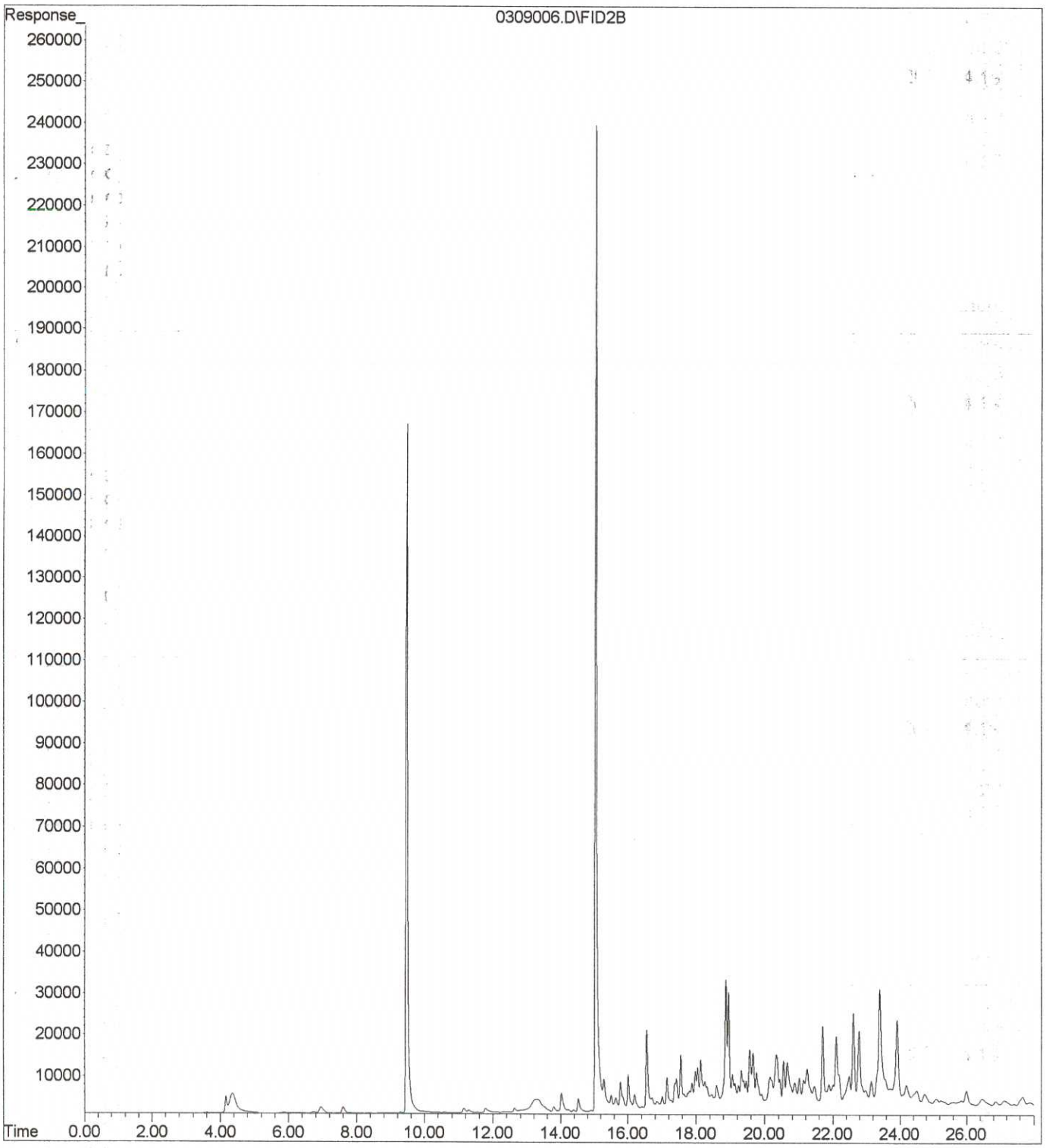
	Signature	Company	Date	Time
Relinquished	Courtney van Stolk	Farallon	3-8	1535
Received	[signature]	OSE	3/8/21	15:35
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

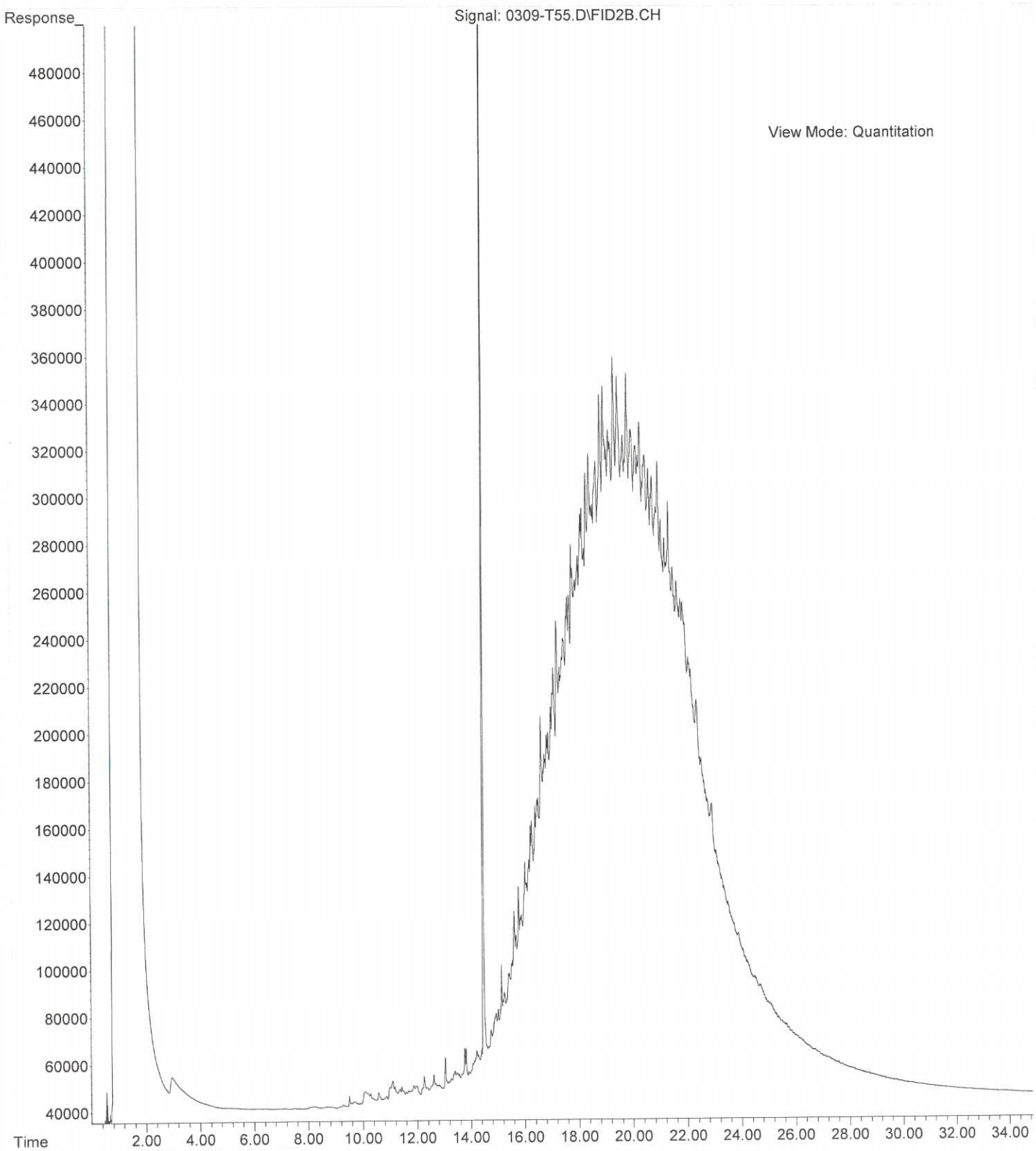
Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

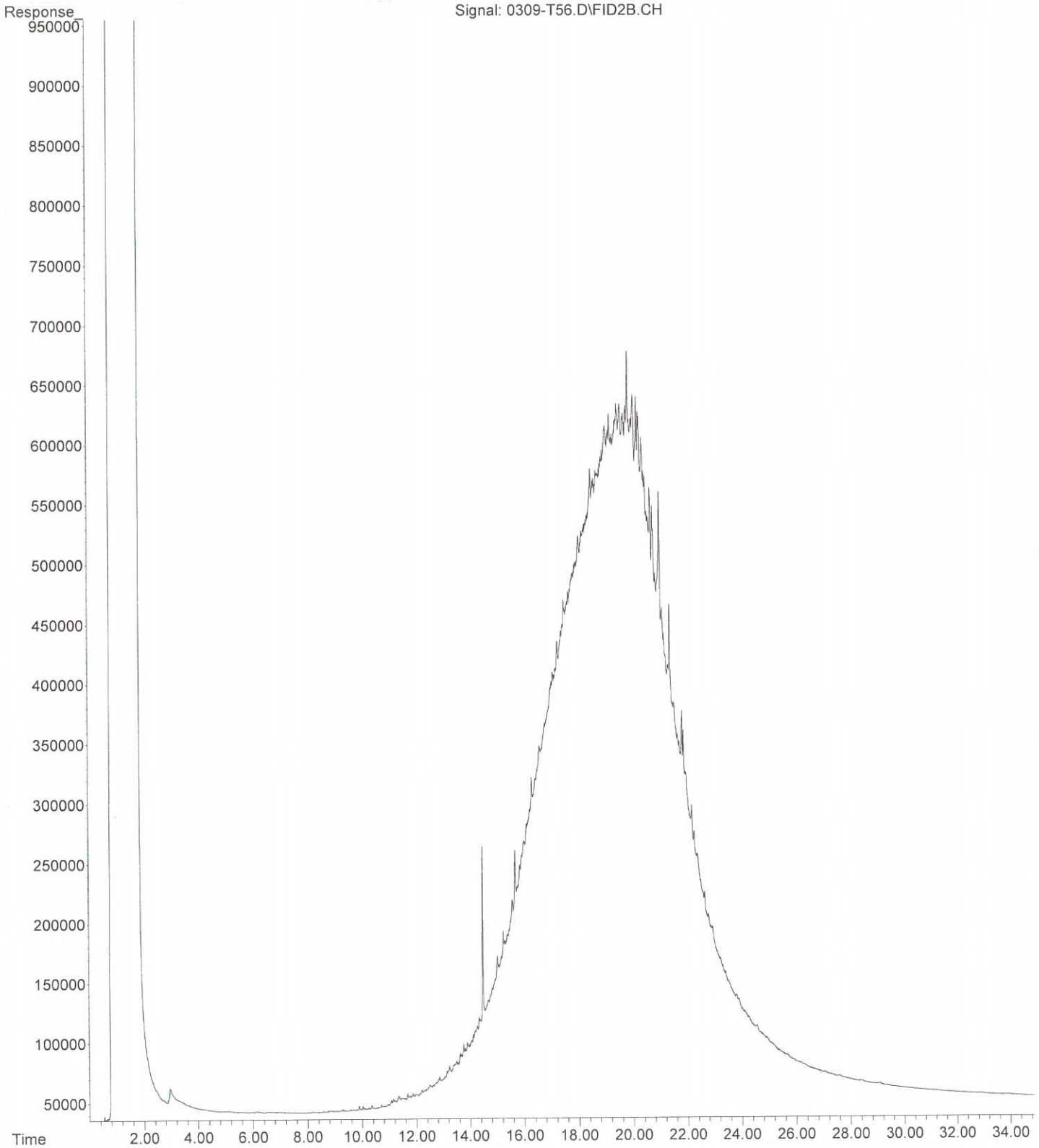
File : E:\ARCHON\DATA\H210309\0309006.D
Operator :
Acquired : 9 Mar 2021 13:10 using AcqMethod 210222G.M
Instrument : Hope
Sample Name: 03-087-01 1:5000 RR
Misc Info : PRODUCT
Vial Number: 6



File :C:\msdchem\1\data\T210309.SEC\0309-T55.D
Operator : JT
Acquired : 09 Mar 2021 10:03 using AcqMethod T210205F.M
Instrument : Teri
Sample Name: 03-087-01 10X
Misc Info :
Vial Number: 55



File :C:\msdchem\1\data\T210309.SEC\0309-T56.D
Operator : JT
Acquired : 09 Mar 2021 10:46 using AcqMethod T210205F.M
Instrument : Teri
Sample Name: 03-087-02 50X
Misc Info :
Vial Number: 56



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March 10, 2021

Eric Buer
Farallon Consulting
1809 7th Avenue, Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 397-035
Laboratory Reference No. 2103-096

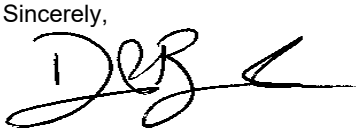
Dear Eric:

Enclosed are the analytical results and associated quality control data for samples submitted on March 9, 2021.

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

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

Sincerely,



David Baumeister
Project Manager

Enclosures

Date of Report: March 10, 2021
Samples Submitted: March 9, 2021
Laboratory Reference: 2103-096
Project: 397-035

Case Narrative

Samples were collected on March 9, 2021 and received by the laboratory on March 9, 2021. 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.

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: March 10, 2021
Samples Submitted: March 9, 2021
Laboratory Reference: 2103-096
Project: 397-035

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:	**UST-L-bottom**					
Laboratory ID:	03-096-01					
Diesel Range Organics	**270**	29	NWTPH-Dx	3-9-21	3-10-21	
Lube Oil Range Organics	**390**	58	NWTPH-Dx	3-9-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				
Client ID:	**UST-L-S**					
Laboratory ID:	03-096-02					
Diesel Range Organics	**230**	30	NWTPH-Dx	3-9-21	3-10-21	
Lube Oil Range Organics	**540**	59	NWTPH-Dx	3-9-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				
Client ID:	**UST-L-W**					
Laboratory ID:	03-096-03					
Diesel Range Organics	**ND**	30	NWTPH-Dx	3-9-21	3-10-21	
Lube Oil Range Organics	**ND**	60	NWTPH-Dx	3-9-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*67*	*50-150*				
Client ID:	**UST-L-E**					
Laboratory ID:	03-096-04					
Diesel Range Organics	**ND**	28	NWTPH-Dx	3-9-21	3-9-21	
Lube Oil Range Organics	**69**	57	NWTPH-Dx	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*74*	*50-150*				
Client ID:	**UST-L-N**					
Laboratory ID:	03-096-05					
Diesel Range Organics	**77**	33	NWTPH-Dx	3-9-21	3-10-21	
Lube Oil Range Organics	**190**	67	NWTPH-Dx	3-9-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*70*	*50-150*				
Client ID:	**UST-L-fill**					
Laboratory ID:	03-096-06					
Diesel Fuel #2	**63000**	580	NWTPH-Dx	3-9-21	3-9-21	
Lube Oil Range Organics	**ND**	2500	NWTPH-Dx	3-9-21	3-9-21	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*64*	*50-150*				

Date of Report: March 10, 2021
Samples Submitted: March 9, 2021
Laboratory Reference: 2103-096
Project: 397-035

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:	**UST-L-SP1**					
Laboratory ID:	03-096-07					
Diesel Range Organics	**150**	29	NWTPH-Dx	3-9-21	3-10-21	
Lube Oil Range Organics	**230**	58	NWTPH-Dx	3-9-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*73*	*50-150*				

Date of Report: March 10, 2021
Samples Submitted: March 9, 2021
Laboratory Reference: 2103-096
Project: 397-035

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:	MB0309S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	3-9-21	3-9-21	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	3-9-21	3-9-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*93*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	SB0309S1										
	ORIG	DUP									
Diesel Fuel #2	**95.3**	**88.7**	NA	NA		NA		NA	7	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*103*	*98*	*50-150*			

Date of Report: March 10, 2021
Samples Submitted: March 9, 2021
Laboratory Reference: 2103-096
Project: 397-035

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
UST-L-bottom	03-096-01	**14**	3-9-21
UST-L-S	03-096-02	**15**	3-9-21
UST-L-W	03-096-03	**16**	3-9-21
UST-L-E	03-096-04	**11**	3-9-21
UST-L-N	03-096-05	**25**	3-9-21
UST-L-fill	03-096-06	**79**	3-9-21
UST-L-SP1	03-096-07	**14**	3-9-21

OnSite Environmental Inc.

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.

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.

Z -

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

Chain of Custody

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Analytical Laboratory Testing Services
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Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon
Project Number: 397-035
Project Name: Block 79
Project Manager: Eric Buer
Sampled by: Courtney van Stolk

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

Laboratory Number: 03-096

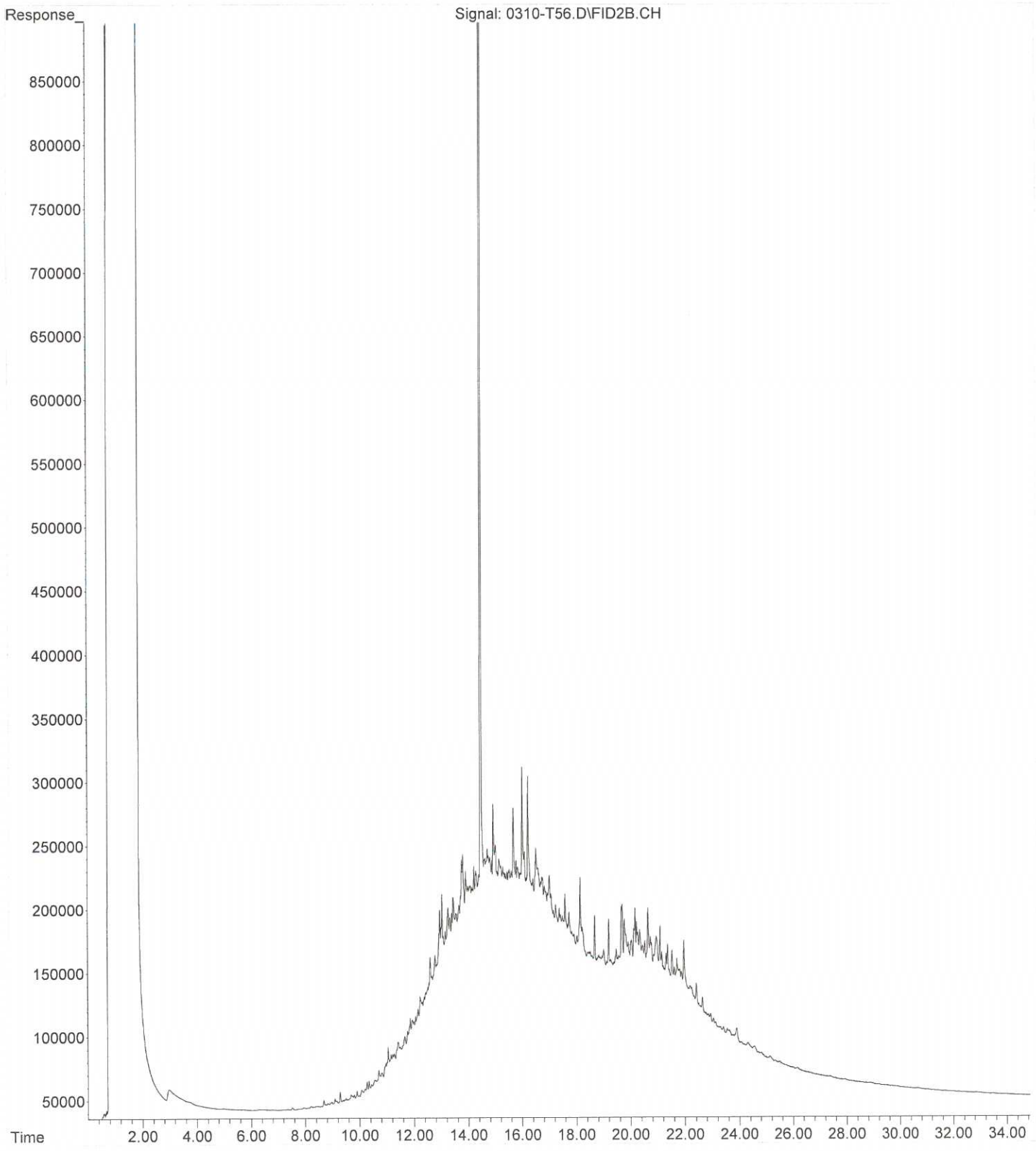
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A					% Moisture
1	UST-L-bottom	3-9-21	1123	soil	5				X																		X
2	UST-L-S		1125		5				X																		X
3	UST-L-W		1126		5				X																		X
4	UST-L-E		1129		5				X																		X
5	UST-L-N		1132		5				X																		X
6	UST-L-fill		1145		5				X																		X
7	UST-L-SP1		1330		1				X																		X

	Signature	Company	Date	Time
Relinquished	Courtney van Stolk	Farallon	3-9-21	1345
Received	[signature]	speedy	3-9-21	1345
Relinquished	[signature]	speedy	3-9-21	1445
Received	[signature]	OSE	3/9/21	1445
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

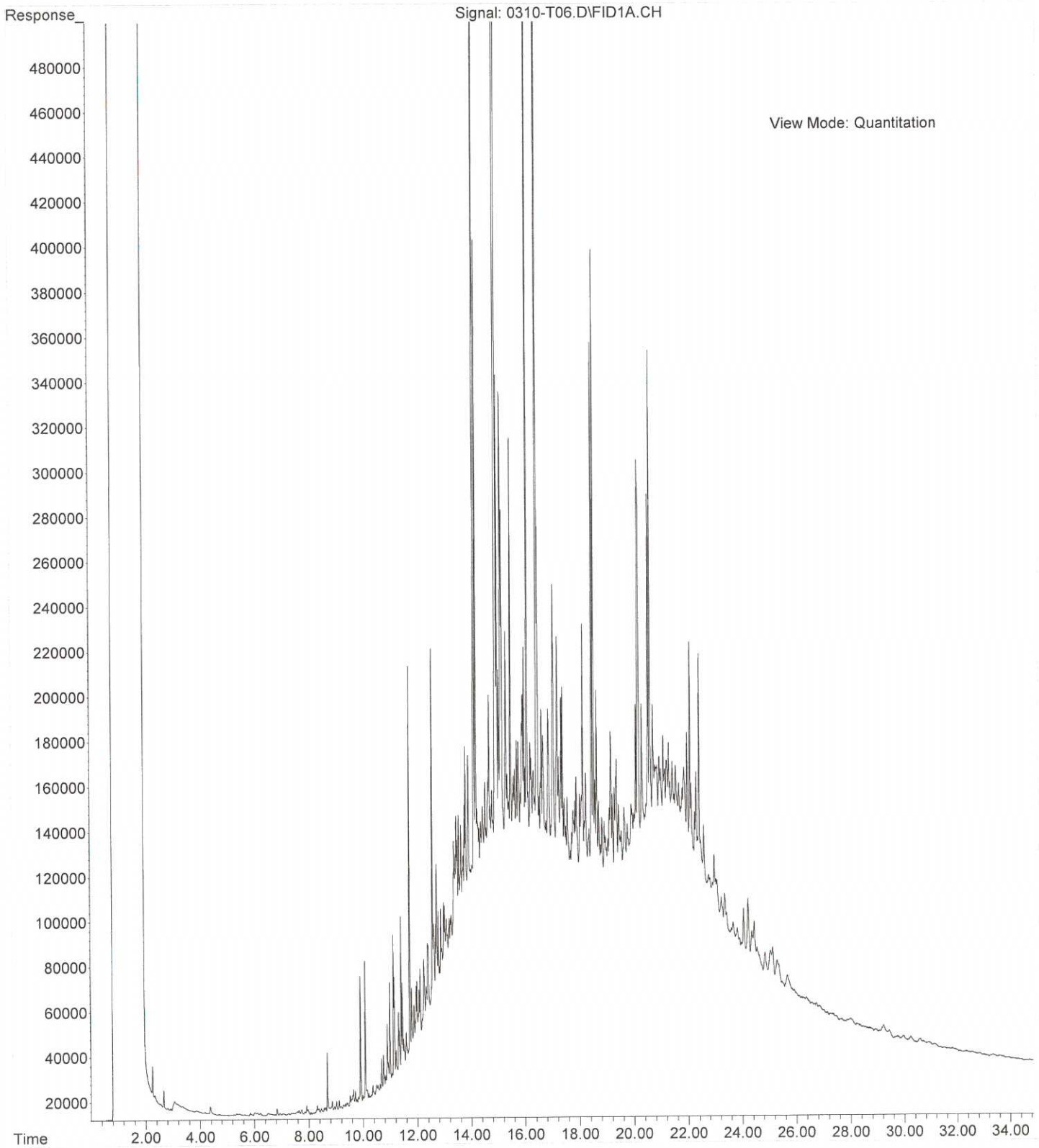
Comments/Special Instructions
UST-L-fill has significant indication of contamination, PID = 100.9 ppm.

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

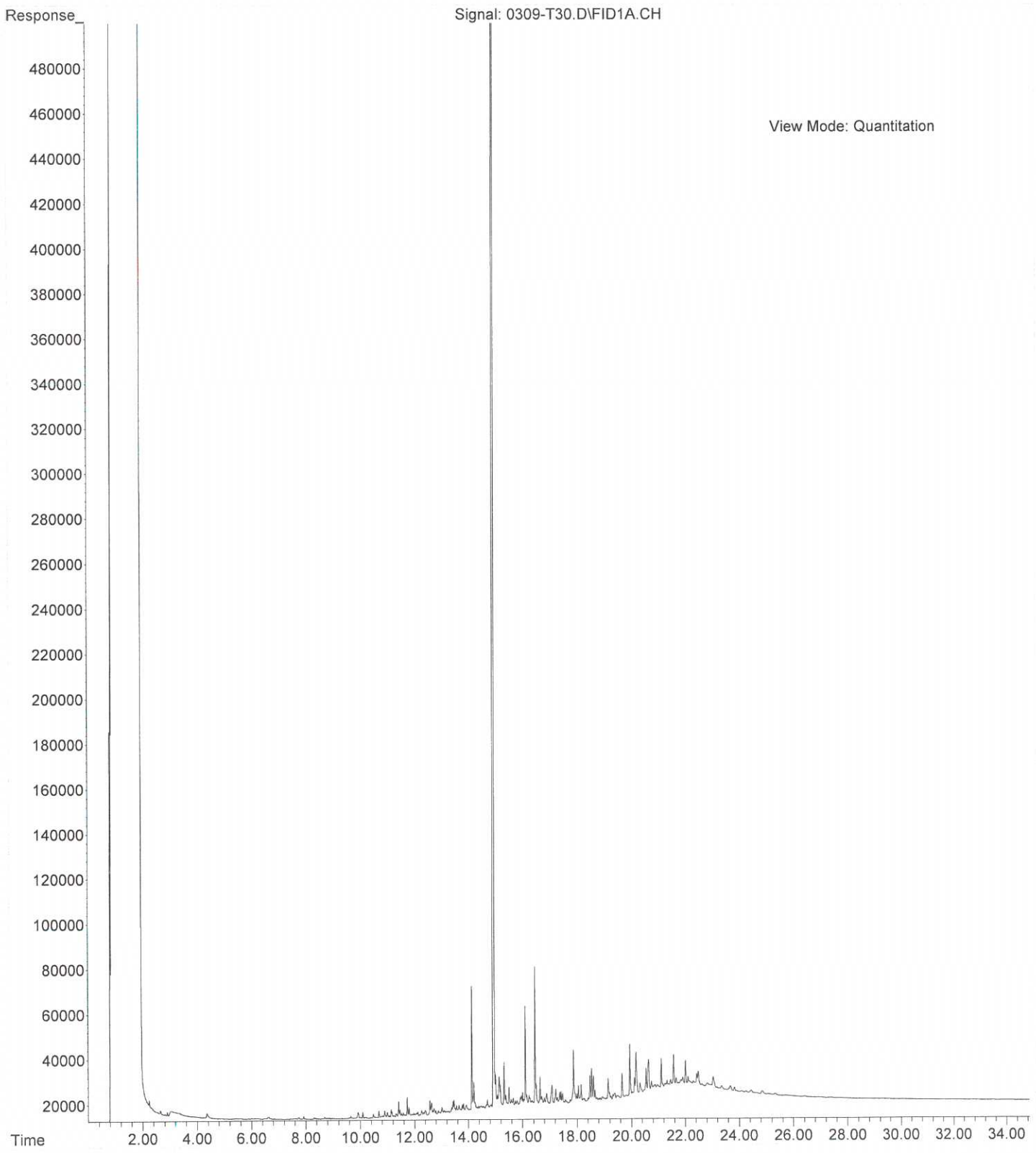
File :C:\msdchem\1\data\T210310.SEC\0310-T56.D
Operator : JT
Acquired : 10 Mar 2021 12:11 using AcqMethod T210205F.M
Instrument : Teri
Sample Name: 03-096-01
Misc Info :
Vial Number: 56



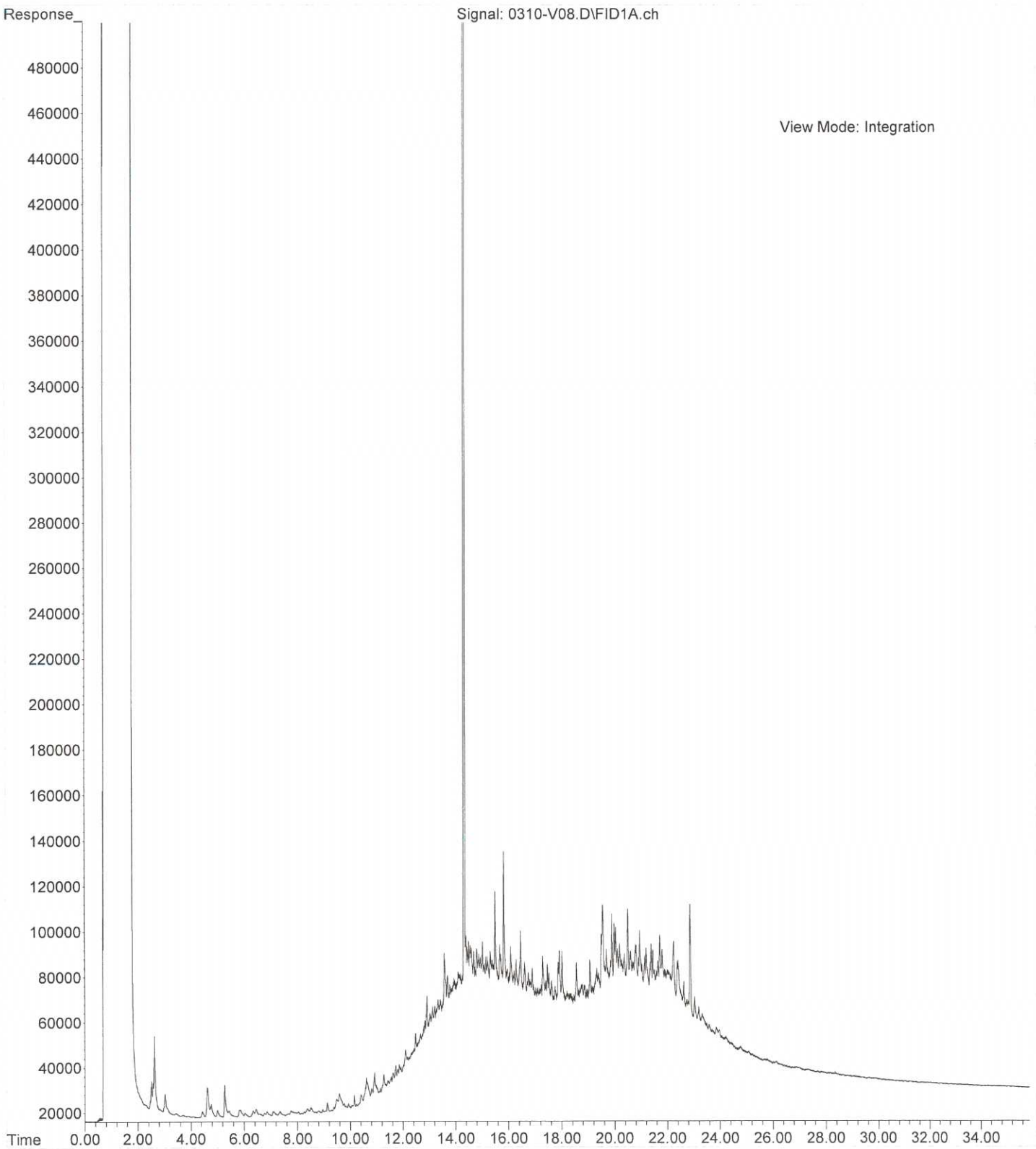
File :C:\msdchem\1\data\T210310\0310-T06.D
Operator : JT
Acquired : 10 Mar 2021 12:11 using AcqMethod T210205F.M
Instrument : Teri
Sample Name: 03-096-02
Misc Info :
Vial Number: 6



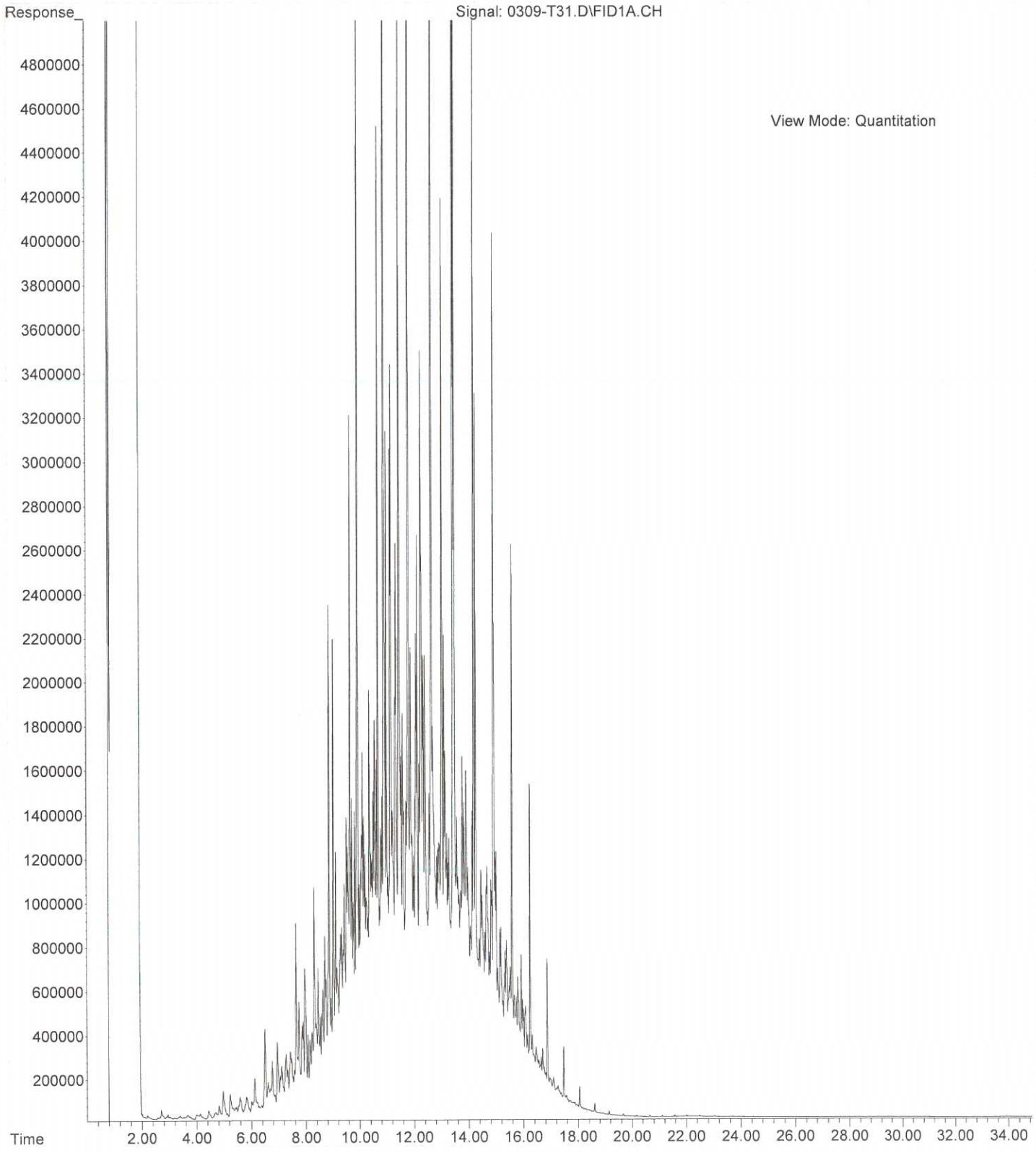
File :C:\msdchem\1\data\T210309\0309-T30.D
Operator : JT
Acquired : 10 Mar 2021 5:45 using AcqMethod T210205F.M
Instrument : Teri
Sample Name: 03-096-04
Misc Info :
Vial Number: 30



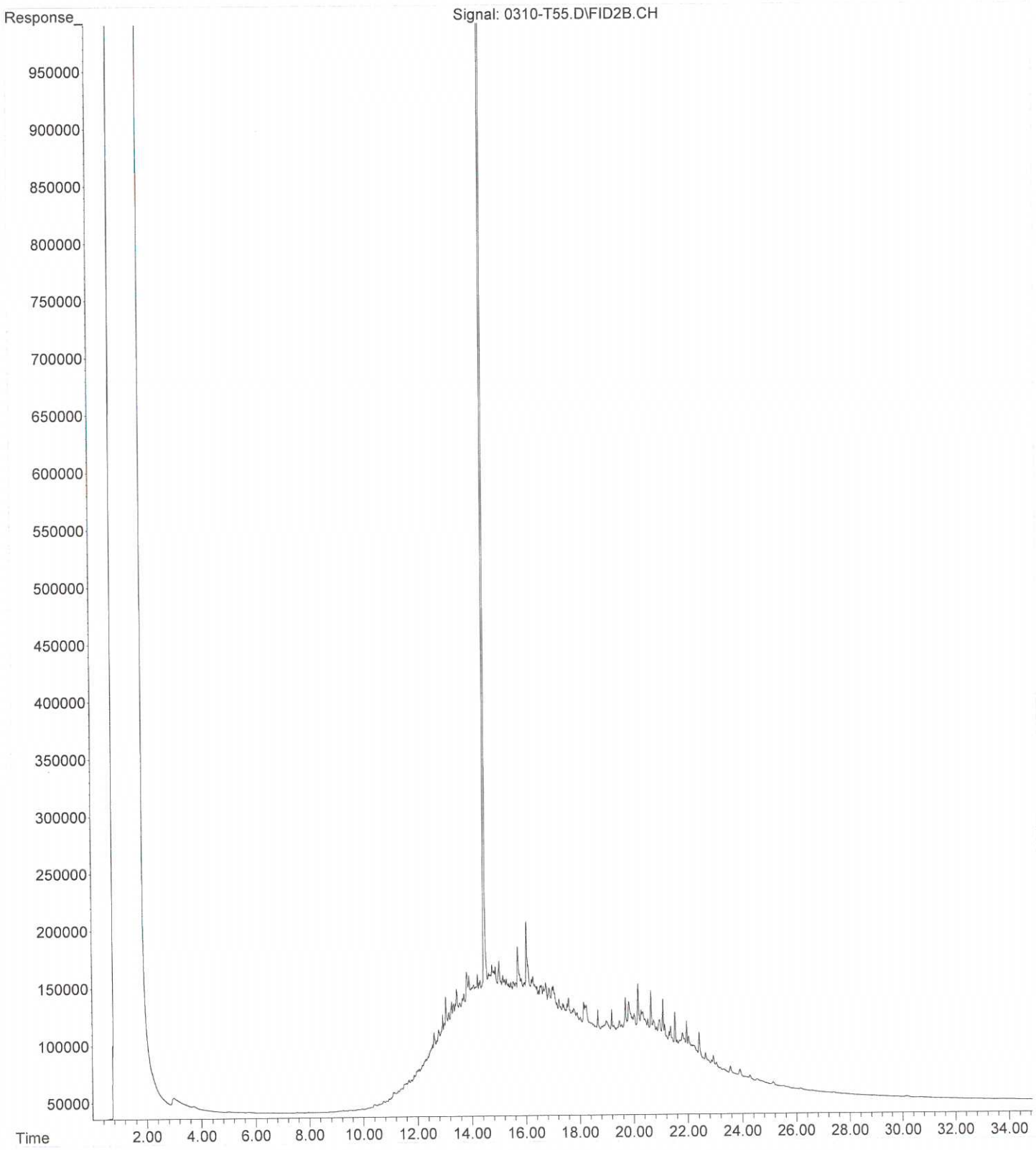
File :C:\msdchem\2\data\V210310\0310-V08.D
Operator : JT
Acquired : 10 Mar 2021 12:04 using AcqMethod V210205F.M
Instrument : Vigo
Sample Name: 03-096-05
Misc Info :
Vial Number: 8



File :C:\msdchem\1\data\T210309\0309-T31.D
Operator : JT
Acquired : 10 Mar 2021 6:27 using AcqMethod T210205F.M
Instrument : Teri
Sample Name: 03-096-06 5X
Misc Info :
Vial Number: 31



File :C:\msdchem\1\data\T210310.SEC\0310-T55.D
Operator : JT
Acquired : 10 Mar 2021 11:28 using AcqMethod T210205F.M
Instrument : Teri
Sample Name: 03-096-07
Misc Info :
Vial Number: 55



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

March 16, 2021

Eric Buer
Farallon Consulting
1809 7th Avenue, Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 397-035
Laboratory Reference No. 2103-113

Dear Eric:

Enclosed are the analytical results and associated quality control data for samples submitted on March 10, 2021.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

Case Narrative

Samples were collected on March 9 and 10, 2021 and received by the laboratory on March 10, 2021. 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.

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.

Total Metals EPA 6010D/7471B Analysis

The duplicate RPD for Mercury is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

The Matrix Spike/ Matrix Spike Duplicate recoveries for Mercury are outside control limits due to matrix inhomogeneity . The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 107 %.

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: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-bottom**					
Laboratory ID:	03-113-03					
Gasoline	**ND**	14	NWTPH-Gx	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*58-129*				
Client ID:	**UST-A-E**					
Laboratory ID:	03-113-04					
Gasoline	**ND**	6.4	NWTPH-Gx	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*98*	*58-129*				
Client ID:	**UST-A-S**					
Laboratory ID:	03-113-05					
Gasoline	**ND**	6.1	NWTPH-Gx	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*98*	*58-129*				
Client ID:	**UST-A-N**					
Laboratory ID:	03-113-06					
Gasoline	**ND**	6.7	NWTPH-Gx	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*58-129*				
Client ID:	**UST-A-W**					
Laboratory ID:	03-113-07					
Gasoline	**ND**	6.1	NWTPH-Gx	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*97*	*58-129*				

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

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:	MB0310S1					
Gasoline	**ND**	5.0	NWTPH-Gx	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*58-129*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-058-09									
	ORIG	DUP								
Gasoline	**ND**	**ND**	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						*99* *100*	*58-129*			

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

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:	**UST-L-SP2**					
Laboratory ID:	03-113-01					
Diesel Range Organics	**33**	30	NWTPH-Dx	3-10-21	3-10-21	N
Lube Oil Range Organics	**85**	61	NWTPH-Dx	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				
Client ID:	**UST-L-SP3**					
Laboratory ID:	03-113-02					
Diesel Range Organics	**41**	30	NWTPH-Dx	3-10-21	3-10-21	N
Lube Oil Range Organics	**140**	59	NWTPH-Dx	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				
Client ID:	**UST-A-bottom**					
Laboratory ID:	03-113-03					
Diesel Range Organics	**330**	210	NWTPH-Dx	3-10-21	3-10-21	N
Lube Oil	**3900**	430	NWTPH-Dx	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*97*	*50-150*				
Client ID:	**UST-A-E**					
Laboratory ID:	03-113-04					
Diesel Range Organics	**ND**	30	NWTPH-Dx	3-10-21	3-10-21	
Lube Oil Range Organics	**ND**	60	NWTPH-Dx	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				
Client ID:	**UST-A-S**					
Laboratory ID:	03-113-05					
Diesel Range Organics	**37**	30	NWTPH-Dx	3-10-21	3-10-21	N
Lube Oil	**380**	59	NWTPH-Dx	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*104*	*50-150*				
Client ID:	**UST-A-N**					
Laboratory ID:	03-113-06					
Diesel Range Organics	**ND**	31	NWTPH-Dx	3-10-21	3-10-21	
Lube Oil Range Organics	**ND**	63	NWTPH-Dx	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*93*	*50-150*				

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

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:	**UST-A-W**					
Laboratory ID:	03-113-07					
Diesel Range Organics	**ND**	30	NWTPH-Dx	3-10-21	3-10-21	
Lube Oil	**92**	61	NWTPH-Dx	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*115*	*50-150*				

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

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:	MB0310S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	3-10-21	3-10-21	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*76*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	SB0310S1										
	ORIG	DUP									
Diesel Fuel #2	**76.4**	**71.7**	NA	NA		NA		NA	6	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*84*	*81*	*50-150*			

Date of Report: March 16, 2021
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-bottom**					
Laboratory ID:	03-113-03					
Dichlorodifluoromethane	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Chloromethane	ND	0.018	EPA 8260D	3-10-21	3-10-21	
Vinyl Chloride	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Bromomethane	ND	0.013	EPA 8260D	3-10-21	3-10-21	
Chloroethane	ND	0.013	EPA 8260D	3-10-21	3-10-21	
Trichlorofluoromethane	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloroethene	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Iodomethane	ND	0.013	EPA 8260D	3-10-21	3-10-21	
Methylene Chloride	ND	0.017	EPA 8260D	3-10-21	3-10-21	
(trans) 1,2-Dichloroethene	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloroethane	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
2,2-Dichloropropane	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
(cis) 1,2-Dichloroethene	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Bromochloromethane	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Chloroform	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
1,1,1-Trichloroethane	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Carbon Tetrachloride	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloropropene	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Benzene	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
1,2-Dichloroethane	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Trichloroethene	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
1,2-Dichloropropane	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Dibromomethane	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Bromodichloromethane	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
2-Chloroethyl Vinyl Ether	ND	0.013	EPA 8260D	3-10-21	3-10-21	
(cis) 1,3-Dichloropropene	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Toluene	ND	0.013	EPA 8260D	3-10-21	3-10-21	
(trans) 1,3-Dichloropropene	ND	0.0027	EPA 8260D	3-10-21	3-10-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-bottom**					
Laboratory ID:	03-113-03					
1,1,2-Trichloroethane	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Tetrachloroethene	0.0051	0.0027	EPA 8260D	3-10-21	3-10-21	
1,3-Dichloropropane	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Dibromochloromethane	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
1,2-Dibromoethane	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Chlorobenzene	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
1,1,1,2-Tetrachloroethane	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Ethylbenzene	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
m,p-Xylene	ND	0.0053	EPA 8260D	3-10-21	3-10-21	
o-Xylene	ND	0.0027	EPA 8260D	3-10-21	3-10-21	
Bromoform	ND	0.013	EPA 8260D	3-10-21	3-10-21	
Bromobenzene	ND	0.13	EPA 8260D	3-11-21	3-11-21	
1,1,2,2-Tetrachloroethane	ND	0.13	EPA 8260D	3-11-21	3-11-21	
1,2,3-Trichloropropane	ND	0.13	EPA 8260D	3-11-21	3-11-21	
2-Chlorotoluene	ND	0.13	EPA 8260D	3-11-21	3-11-21	
4-Chlorotoluene	ND	0.13	EPA 8260D	3-11-21	3-11-21	
1,3-Dichlorobenzene	ND	0.13	EPA 8260D	3-11-21	3-11-21	
1,4-Dichlorobenzene	ND	0.13	EPA 8260D	3-11-21	3-11-21	
1,2-Dichlorobenzene	ND	0.13	EPA 8260D	3-11-21	3-11-21	
1,2-Dibromo-3-chloropropane	ND	0.64	EPA 8260D	3-11-21	3-11-21	
1,2,4-Trichlorobenzene	ND	0.13	EPA 8260D	3-11-21	3-11-21	
Hexachlorobutadiene	ND	0.64	EPA 8260D	3-11-21	3-11-21	
1,2,3-Trichlorobenzene	ND	0.13	EPA 8260D	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*74-131*				
Toluene-d8	*92*	*78-128*				
4-Bromofluorobenzene	*79*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-E**					
Laboratory ID:	03-113-04					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Chloromethane	ND	0.0076	EPA 8260D	3-10-21	3-10-21	
Vinyl Chloride	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Bromomethane	ND	0.0056	EPA 8260D	3-10-21	3-10-21	
Chloroethane	ND	0.0056	EPA 8260D	3-10-21	3-10-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Iodomethane	ND	0.0056	EPA 8260D	3-10-21	3-10-21	
Methylene Chloride	ND	0.0071	EPA 8260D	3-10-21	3-10-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Bromochloromethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Chloroform	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Benzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Trichloroethene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Dibromomethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260D	3-10-21	3-10-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Toluene	ND	0.0056	EPA 8260D	3-10-21	3-10-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-E**					
Laboratory ID:	03-113-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Tetrachloroethene	0.0030	0.0011	EPA 8260D	3-10-21	3-10-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Chlorobenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Ethylbenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
m,p-Xylene	ND	0.0022	EPA 8260D	3-10-21	3-10-21	
o-Xylene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Bromoform	ND	0.0056	EPA 8260D	3-10-21	3-10-21	
Bromobenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260D	3-10-21	3-10-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Hexachlorobutadiene	ND	0.0056	EPA 8260D	3-10-21	3-10-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*74-131*				
Toluene-d8	*103*	*78-128*				
4-Bromofluorobenzene	*100*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-S**					
Laboratory ID:	03-113-05					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Chloromethane	ND	0.0070	EPA 8260D	3-10-21	3-10-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Bromomethane	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
Chloroethane	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Iodomethane	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
Methylene Chloride	ND	0.0065	EPA 8260D	3-10-21	3-10-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Bromochloromethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Chloroform	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Benzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Trichloroethene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Dibromomethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Toluene	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-S**					
Laboratory ID:	03-113-05					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Chlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Ethylbenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
m,p-Xylene	ND	0.0021	EPA 8260D	3-10-21	3-10-21	
o-Xylene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Bromoform	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
Bromobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Hexachlorobutadiene	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*74-131*				
Toluene-d8	*104*	*78-128*				
4-Bromofluorobenzene	*98*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-N**					
Laboratory ID:	03-113-06					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Chloromethane	ND	0.0074	EPA 8260D	3-10-21	3-10-21	
Vinyl Chloride	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Bromomethane	ND	0.0054	EPA 8260D	3-10-21	3-10-21	
Chloroethane	ND	0.0054	EPA 8260D	3-10-21	3-10-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Iodomethane	ND	0.0054	EPA 8260D	3-10-21	3-10-21	
Methylene Chloride	ND	0.0069	EPA 8260D	3-10-21	3-10-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Bromochloromethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Chloroform	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Benzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Trichloroethene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Dibromomethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260D	3-10-21	3-10-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Toluene	ND	0.0054	EPA 8260D	3-10-21	3-10-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-N**					
Laboratory ID:	03-113-06					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Tetrachloroethene	0.0012	0.0011	EPA 8260D	3-10-21	3-10-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Chlorobenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Ethylbenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
m,p-Xylene	ND	0.0022	EPA 8260D	3-10-21	3-10-21	
o-Xylene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Bromoform	ND	0.0054	EPA 8260D	3-10-21	3-10-21	
Bromobenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260D	3-10-21	3-10-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Hexachlorobutadiene	ND	0.0054	EPA 8260D	3-10-21	3-10-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*74-131*				
Toluene-d8	*102*	*78-128*				
4-Bromofluorobenzene	*96*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
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Project: 397-035

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-W**					
Laboratory ID:	03-113-07					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Chloromethane	ND	0.0070	EPA 8260D	3-10-21	3-10-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Bromomethane	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
Chloroethane	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Iodomethane	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
Methylene Chloride	ND	0.0065	EPA 8260D	3-10-21	3-10-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Bromochloromethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Chloroform	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Benzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Trichloroethene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Dibromomethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Toluene	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-W**					
Laboratory ID:	03-113-07					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Chlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Ethylbenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
m,p-Xylene	ND	0.0021	EPA 8260D	3-10-21	3-10-21	
o-Xylene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Bromoform	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
Bromobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Hexachlorobutadiene	ND	0.0052	EPA 8260D	3-10-21	3-10-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*74-131*				
Toluene-d8	*102*	*78-128*				
4-Bromofluorobenzene	*94*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
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QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Chloromethane	ND	0.0068	EPA 8260D	3-10-21	3-10-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Bromomethane	ND	0.0050	EPA 8260D	3-10-21	3-10-21	
Chloroethane	ND	0.0050	EPA 8260D	3-10-21	3-10-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Iodomethane	ND	0.0050	EPA 8260D	3-10-21	3-10-21	
Methylene Chloride	ND	0.0063	EPA 8260D	3-10-21	3-10-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Bromochloromethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Chloroform	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Benzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Trichloroethene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Dibromomethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	3-10-21	3-10-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Toluene	ND	0.0050	EPA 8260D	3-10-21	3-10-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	

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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Chlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Ethylbenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
m,p-Xylene	ND	0.0020	EPA 8260D	3-10-21	3-10-21	
o-Xylene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Bromoform	ND	0.0050	EPA 8260D	3-10-21	3-10-21	
Bromobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	3-10-21	3-10-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	3-10-21	3-10-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*74-131*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*101*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Chloromethane	ND	0.0075	EPA 8260D	3-11-21	3-11-21	
Vinyl Chloride	ND	0.0013	EPA 8260D	3-11-21	3-11-21	
Bromomethane	ND	0.0050	EPA 8260D	3-11-21	3-11-21	
Chloroethane	ND	0.0050	EPA 8260D	3-11-21	3-11-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Iodomethane	ND	0.0050	EPA 8260D	3-11-21	3-11-21	
Methylene Chloride	ND	0.0068	EPA 8260D	3-11-21	3-11-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Bromochloromethane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Chloroform	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Benzene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Trichloroethene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Dibromomethane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	3-11-21	3-11-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Toluene	ND	0.0050	EPA 8260D	3-11-21	3-11-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	

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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Chlorobenzene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Ethylbenzene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
m,p-Xylene	ND	0.0020	EPA 8260D	3-11-21	3-11-21	
o-Xylene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Bromoform	ND	0.0050	EPA 8260D	3-11-21	3-11-21	
Bromobenzene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	3-11-21	3-11-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	3-11-21	3-11-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*74-131*				
Toluene-d8	*102*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0310S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0493**	**0.0453**	0.0500	0.0500	99	91	55-126	8	17	
Benzene	**0.0473**	**0.0455**	0.0500	0.0500	95	91	65-121	4	16	
Trichloroethene	**0.0510**	**0.0488**	0.0500	0.0500	102	98	74-126	4	16	
Toluene	**0.0464**	**0.0444**	0.0500	0.0500	93	89	71-121	4	16	
Chlorobenzene	**0.0469**	**0.0455**	0.0500	0.0500	94	91	72-123	3	16	
Surrogate:										
Dibromofluoromethane					*104*	*102*	*74-131*			
Toluene-d8					*99*	*100*	*78-128*			
4-Bromofluorobenzene					*100*	*104*	*71-130*			
Laboratory ID:	SB0311S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0474**	**0.0481**	0.0500	0.0500	95	96	55-126	1	17	
Benzene	**0.0428**	**0.0448**	0.0500	0.0500	86	90	65-121	5	16	
Trichloroethene	**0.0514**	**0.0526**	0.0500	0.0500	103	105	74-126	2	16	
Toluene	**0.0449**	**0.0468**	0.0500	0.0500	90	94	71-121	4	16	
Chlorobenzene	**0.0480**	**0.0487**	0.0500	0.0500	96	97	72-123	1	16	
Surrogate:										
Dibromofluoromethane					*97*	*101*	*74-131*			
Toluene-d8					*99*	*101*	*78-128*			
4-Bromofluorobenzene					*104*	*104*	*71-130*			

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-bottom**					
Laboratory ID:	03-113-03					
Benzo[a]anthracene	**0.097**	0.023	EPA 8270E/SIM	3-10-21	3-11-21	
Chrysene	**0.10**	0.023	EPA 8270E/SIM	3-10-21	3-11-21	
Benzo[b]fluoranthene	**0.10**	0.057	EPA 8270E/SIM	3-10-21	3-11-21	
Benzo(j,k)fluoranthene	**ND**	0.057	EPA 8270E/SIM	3-10-21	3-11-21	
Benzo[a]pyrene	**0.069**	0.057	EPA 8270E/SIM	3-10-21	3-11-21	
Indeno(1,2,3-c,d)pyrene	**0.076**	0.057	EPA 8270E/SIM	3-10-21	3-11-21	
Dibenz[a,h]anthracene	**ND**	0.057	EPA 8270E/SIM	3-10-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*67*	*46 - 113*				
Pyrene-d10	*74*	*45 - 114*				
Terphenyl-d14	*78*	*49 - 121*				

Date of Report: March 16, 2021
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Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-E**					
Laboratory ID:	03-113-04					
Benzo[a]anthracene	**0.0082**	0.0080	EPA 8270E/SIM	3-10-21	3-10-21	
Chrysene	**0.0092**	0.0080	EPA 8270E/SIM	3-10-21	3-10-21	
Benzo[b]fluoranthene	**0.013**	0.0080	EPA 8270E/SIM	3-10-21	3-10-21	
Benzo(j,k)fluoranthene	**ND**	0.0080	EPA 8270E/SIM	3-10-21	3-10-21	
Benzo[a]pyrene	**0.011**	0.0080	EPA 8270E/SIM	3-10-21	3-10-21	
Indeno(1,2,3-c,d)pyrene	**0.0086**	0.0080	EPA 8270E/SIM	3-10-21	3-10-21	
Dibenz[a,h]anthracene	**ND**	0.0080	EPA 8270E/SIM	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*86*	*46 - 113*				
Pyrene-d10	*105*	*45 - 114*				
Terphenyl-d14	*111*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
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Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-S**					
Laboratory ID:	03-113-05					
Benzo[a]anthracene	**0.028**	0.0079	EPA 8270E/SIM	3-10-21	3-11-21	
Chrysene	**0.023**	0.0079	EPA 8270E/SIM	3-10-21	3-11-21	
Benzo[b]fluoranthene	**0.023**	0.0079	EPA 8270E/SIM	3-10-21	3-11-21	
Benzo(j,k)fluoranthene	**0.0080**	0.0079	EPA 8270E/SIM	3-10-21	3-11-21	
Benzo[a]pyrene	**0.027**	0.0079	EPA 8270E/SIM	3-10-21	3-11-21	
Indeno(1,2,3-c,d)pyrene	**0.014**	0.0079	EPA 8270E/SIM	3-10-21	3-11-21	
Dibenz[a,h]anthracene	**ND**	0.0079	EPA 8270E/SIM	3-10-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*93*	*46 - 113*				
Pyrene-d10	*99*	*45 - 114*				
Terphenyl-d14	*100*	*49 - 121*				

Date of Report: March 16, 2021
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PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-N**					
Laboratory ID:	03-113-06					
Benzo[a]anthracene	**0.0085**	0.0084	EPA 8270E/SIM	3-10-21	3-11-21	
Chrysene	**0.0090**	0.0084	EPA 8270E/SIM	3-10-21	3-11-21	
Benzo[b]fluoranthene	**0.012**	0.0084	EPA 8270E/SIM	3-10-21	3-11-21	
Benzo(j,k)fluoranthene	**ND**	0.0084	EPA 8270E/SIM	3-10-21	3-11-21	
Benzo[a]pyrene	**0.0097**	0.0084	EPA 8270E/SIM	3-10-21	3-11-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0084	EPA 8270E/SIM	3-10-21	3-11-21	
Dibenz[a,h]anthracene	**ND**	0.0084	EPA 8270E/SIM	3-10-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*83*	*46 - 113*				
Pyrene-d10	*93*	*45 - 114*				
Terphenyl-d14	*101*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
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PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-W**					
Laboratory ID:	03-113-07					
Benzo[a]anthracene	**0.027**	0.0081	EPA 8270E/SIM	3-10-21	3-11-21	
Chrysene	**0.029**	0.0081	EPA 8270E/SIM	3-10-21	3-11-21	
Benzo[b]fluoranthene	**0.043**	0.0081	EPA 8270E/SIM	3-10-21	3-11-21	
Benzo(j,k)fluoranthene	**0.012**	0.0081	EPA 8270E/SIM	3-10-21	3-11-21	
Benzo[a]pyrene	**0.033**	0.0081	EPA 8270E/SIM	3-10-21	3-11-21	
Indeno(1,2,3-c,d)pyrene	**0.030**	0.0081	EPA 8270E/SIM	3-10-21	3-11-21	
Dibenz[a,h]anthracene	**ND**	0.0081	EPA 8270E/SIM	3-10-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*77*	*46 - 113*				
Pyrene-d10	*94*	*45 - 114*				
Terphenyl-d14	*92*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270E/SIM	3-10-21	3-10-21	
Chrysene	**ND**	0.0067	EPA 8270E/SIM	3-10-21	3-10-21	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270E/SIM	3-10-21	3-10-21	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270E/SIM	3-10-21	3-10-21	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270E/SIM	3-10-21	3-10-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270E/SIM	3-10-21	3-10-21	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270E/SIM	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*100*	*46 - 113*				
Pyrene-d10	*100*	*45 - 114*				
Terphenyl-d14	*114*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-100-01										
	MS	MSD	MS	MSD		MS	MSD				
Benzo[a]anthracene	**0.0677**	**0.0751**	0.0833	0.0833	ND	81	90	56 - 136	10	25	
Chrysene	**0.0682**	**0.0767**	0.0833	0.0833	ND	82	92	49 - 130	12	22	
Benzo[b]fluoranthene	**0.0679**	**0.0772**	0.0833	0.0833	ND	82	93	51 - 135	13	26	
Benzo(j,k)fluoranthene	**0.0720**	**0.0773**	0.0833	0.0833	ND	86	93	56 - 124	7	23	
Benzo[a]pyrene	**0.0687**	**0.0773**	0.0833	0.0833	ND	82	93	54 - 133	12	26	
Indeno(1,2,3-c,d)pyrene	**0.0685**	**0.0759**	0.0833	0.0833	ND	82	91	52 - 134	10	20	
Dibenz[a,h]anthracene	**0.0656**	**0.0721**	0.0833	0.0833	ND	79	87	58 - 127	9	17	
Surrogate:											
2-Fluorobiphenyl						*85*	*85*	*46 - 113*			
Pyrene-d10						*85*	*95*	*45 - 114*			
Terphenyl-d14						*92*	*104*	*49 - 121*			

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Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-bottom**					
Laboratory ID:	03-113-03					
Aroclor 1016	**ND**	0.085	EPA 8082A	3-10-21	3-11-21	
Aroclor 1221	**ND**	0.085	EPA 8082A	3-10-21	3-11-21	
Aroclor 1232	**ND**	0.085	EPA 8082A	3-10-21	3-11-21	
Aroclor 1242	**ND**	0.085	EPA 8082A	3-10-21	3-11-21	
Aroclor 1248	**ND**	0.085	EPA 8082A	3-10-21	3-11-21	
Aroclor 1254	**ND**	0.085	EPA 8082A	3-10-21	3-11-21	
Aroclor 1260	**ND**	0.085	EPA 8082A	3-10-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*91*	*46-125*				
Client ID:	**UST-A-E**					
Laboratory ID:	03-113-04					
Aroclor 1016	**ND**	0.060	EPA 8082A	3-10-21	3-11-21	
Aroclor 1221	**ND**	0.060	EPA 8082A	3-10-21	3-11-21	
Aroclor 1232	**ND**	0.060	EPA 8082A	3-10-21	3-11-21	
Aroclor 1242	**ND**	0.060	EPA 8082A	3-10-21	3-11-21	
Aroclor 1248	**ND**	0.060	EPA 8082A	3-10-21	3-11-21	
Aroclor 1254	**ND**	0.060	EPA 8082A	3-10-21	3-11-21	
Aroclor 1260	**ND**	0.060	EPA 8082A	3-10-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*94*	*46-125*				
Client ID:	**UST-A-S**					
Laboratory ID:	03-113-05					
Aroclor 1016	**ND**	0.059	EPA 8082A	3-10-21	3-11-21	
Aroclor 1221	**ND**	0.059	EPA 8082A	3-10-21	3-11-21	
Aroclor 1232	**ND**	0.059	EPA 8082A	3-10-21	3-11-21	
Aroclor 1242	**ND**	0.059	EPA 8082A	3-10-21	3-11-21	
Aroclor 1248	**ND**	0.059	EPA 8082A	3-10-21	3-11-21	
Aroclor 1254	**ND**	0.059	EPA 8082A	3-10-21	3-11-21	
Aroclor 1260	**ND**	0.059	EPA 8082A	3-10-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*98*	*46-125*				

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-N**					
Laboratory ID:	03-113-06					
Aroclor 1016	**ND**	0.063	EPA 8082A	3-10-21	3-11-21	
Aroclor 1221	**ND**	0.063	EPA 8082A	3-10-21	3-11-21	
Aroclor 1232	**ND**	0.063	EPA 8082A	3-10-21	3-11-21	
Aroclor 1242	**ND**	0.063	EPA 8082A	3-10-21	3-11-21	
Aroclor 1248	**ND**	0.063	EPA 8082A	3-10-21	3-11-21	
Aroclor 1254	**ND**	0.063	EPA 8082A	3-10-21	3-11-21	
Aroclor 1260	**ND**	0.063	EPA 8082A	3-10-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*90*	*46-125*				
Client ID:	**UST-A-W**					
Laboratory ID:	03-113-07					
Aroclor 1016	**ND**	0.061	EPA 8082A	3-10-21	3-11-21	
Aroclor 1221	**ND**	0.061	EPA 8082A	3-10-21	3-11-21	
Aroclor 1232	**ND**	0.061	EPA 8082A	3-10-21	3-11-21	
Aroclor 1242	**ND**	0.061	EPA 8082A	3-10-21	3-11-21	
Aroclor 1248	**ND**	0.061	EPA 8082A	3-10-21	3-11-21	
Aroclor 1254	**ND**	0.061	EPA 8082A	3-10-21	3-11-21	
Aroclor 1260	**ND**	0.061	EPA 8082A	3-10-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*84*	*46-125*				

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Project: 397-035

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	3-10-21	3-10-21	
Aroclor 1221	**ND**	0.050	EPA 8082A	3-10-21	3-10-21	
Aroclor 1232	**ND**	0.050	EPA 8082A	3-10-21	3-10-21	
Aroclor 1242	**ND**	0.050	EPA 8082A	3-10-21	3-10-21	
Aroclor 1248	**ND**	0.050	EPA 8082A	3-10-21	3-10-21	
Aroclor 1254	**ND**	0.050	EPA 8082A	3-10-21	3-10-21	
Aroclor 1260	**ND**	0.050	EPA 8082A	3-10-21	3-10-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*90*	*46-125*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-100-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.361**	**0.373**	0.500	0.500	ND	**72**	**75**	43-125	3	15	
Surrogate:											
DCB						*77*	*73*	*46-125*			

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Project: 397-035

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-bottom**					
Laboratory ID:	03-113-03					
Arsenic	**ND**	17	EPA 6010D	3-10-21	3-10-21	
Barium	**1400**	21	EPA 6010D	3-10-21	3-10-21	
Cadmium	**1.9**	0.85	EPA 6010D	3-10-21	3-10-21	
Chromium	**170**	0.85	EPA 6010D	3-10-21	3-10-21	
Lead	**1700**	8.5	EPA 6010D	3-10-21	3-10-21	
Mercury	**0.38**	0.17	EPA 7471B	3-11-21	3-11-21	
Selenium	**ND**	17	EPA 6010D	3-10-21	3-10-21	
Silver	**ND**	1.7	EPA 6010D	3-10-21	3-10-21	
Client ID:	**UST-A-E**					
Laboratory ID:	03-113-04					
Arsenic	**ND**	12	EPA 6010D	3-10-21	3-10-21	
Barium	**88**	3.0	EPA 6010D	3-10-21	3-10-21	
Cadmium	**ND**	0.60	EPA 6010D	3-10-21	3-10-21	
Chromium	**50**	0.60	EPA 6010D	3-10-21	3-10-21	
Lead	**45**	6.0	EPA 6010D	3-10-21	3-10-21	
Mercury	**ND**	0.12	EPA 7471B	3-11-21	3-11-21	
Selenium	**ND**	12	EPA 6010D	3-10-21	3-10-21	
Silver	**ND**	1.2	EPA 6010D	3-10-21	3-10-21	
Client ID:	**UST-A-S**					
Laboratory ID:	03-113-05					
Arsenic	**ND**	12	EPA 6010D	3-10-21	3-10-21	
Barium	**110**	3.0	EPA 6010D	3-10-21	3-10-21	
Cadmium	**ND**	0.59	EPA 6010D	3-10-21	3-10-21	
Chromium	**44**	0.59	EPA 6010D	3-10-21	3-10-21	
Lead	**12**	5.9	EPA 6010D	3-10-21	3-10-21	
Mercury	**ND**	0.12	EPA 7471B	3-11-21	3-11-21	
Selenium	**ND**	12	EPA 6010D	3-10-21	3-10-21	
Silver	**ND**	1.2	EPA 6010D	3-10-21	3-10-21	

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TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-N**					
Laboratory ID:	03-113-06					
Arsenic	**ND**	13	EPA 6010D	3-10-21	3-10-21	
Barium	**120**	3.1	EPA 6010D	3-10-21	3-10-21	
Cadmium	**ND**	0.63	EPA 6010D	3-10-21	3-10-21	
Chromium	**38**	0.63	EPA 6010D	3-10-21	3-10-21	
Lead	**15**	6.3	EPA 6010D	3-10-21	3-10-21	
Mercury	**0.22**	0.13	EPA 7471B	3-11-21	3-11-21	
Selenium	**ND**	13	EPA 6010D	3-10-21	3-10-21	
Silver	**ND**	1.3	EPA 6010D	3-10-21	3-10-21	
Client ID:	**UST-A-W**					
Laboratory ID:	03-113-07					
Arsenic	**ND**	12	EPA 6010D	3-10-21	3-10-21	
Barium	**330**	3.0	EPA 6010D	3-10-21	3-10-21	
Cadmium	**ND**	0.61	EPA 6010D	3-10-21	3-10-21	
Chromium	**36**	0.61	EPA 6010D	3-10-21	3-10-21	
Lead	**180**	6.1	EPA 6010D	3-10-21	3-10-21	
Mercury	**0.26**	0.12	EPA 7471B	3-11-21	3-11-21	
Selenium	**ND**	12	EPA 6010D	3-10-21	3-10-21	
Silver	**ND**	1.2	EPA 6010D	3-10-21	3-10-21	

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TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310SM3					
Arsenic	**ND**	10	EPA 6010D	3-10-21	3-10-21	
Barium	**ND**	2.5	EPA 6010D	3-10-21	3-10-21	
Cadmium	**ND**	0.50	EPA 6010D	3-10-21	3-10-21	
Chromium	**ND**	0.50	EPA 6010D	3-10-21	3-10-21	
Lead	**ND**	5.0	EPA 6010D	3-10-21	3-10-21	
Selenium	**ND**	10	EPA 6010D	3-10-21	3-10-21	
Silver	**ND**	1.0	EPA 6010D	3-10-21	3-10-21	
Laboratory ID:	MB0311S2					
Mercury	**ND**	0.10	EPA 7471B	3-11-21	3-11-21	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-095-02									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**58.8**	**63.2**	NA	NA		NA	NA	7	20	
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**33.0**	**36.6**	NA	NA		NA	NA	10	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-113-06									
Mercury	**0.174**	**0.131**	NA	NA		NA	NA	28	20	K

MATRIX SPIKES										
Laboratory ID:	03-095-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**86.8**	**87.8**	100	100	ND	**87**	**88**	75-125	1	20
Barium	**155**	**153**	100	100	58.8	**96**	**95**	75-125	1	20
Cadmium	**45.6**	**46.0**	50.0	50.0	ND	**91**	**92**	75-125	1	20
Chromium	**123**	**124**	100	100	33.0	**90**	**91**	75-125	1	20
Lead	**215**	**215**	250	250	ND	**86**	**86**	75-125	0	20
Selenium	**89.0**	**89.6**	100	100	ND	**89**	**90**	75-125	1	20
Silver	**19.9**	**20.1**	25.0	25.0	ND	**79**	**80**	75-125	1	20
Laboratory ID:	03-113-06									
Mercury	**0.867**	**0.741**	0.500	0.500	0.174	**139**	**113**	80-120	16	20	V

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

TCLP METALS
EPA 1311/6010D

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-bottom**					
Laboratory ID:	03-113-03					
Chromium	**ND**	0.020	EPA 6010D	3-16-21	3-16-21	
Lead	**25**	0.20	EPA 6010D	3-16-21	3-16-21	

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

TCLP METALS
EPA 1311/6010D
QUALITY CONTROL

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316TM1					
Chromium	**ND**	0.020	EPA 6010D	3-16-21	3-16-21	
Lead	**ND**	0.20	EPA 6010D	3-16-21	3-16-21	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-113-03										
	ORIG	DUP									
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**25.1**	**25.0**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	03-113-03										
	MS	MSD	MS	MSD		MS	MSD				
Chromium	**3.54**	**3.57**	4.00	4.00	ND	**89**	**89**	75-125	1	20	
Lead	**32.8**	**32.9**	10.0	10.0	25.1	**76**	**77**	75-125	0	20	

Date of Report: March 16, 2021
Samples Submitted: March 10, 2021
Laboratory Reference: 2103-113
Project: 397-035

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
UST-L-SP2	03-113-01	**18**	3-10-21
UST-L-SP3	03-113-02	**15**	3-10-21
UST-A-bottom	03-113-03	**41**	3-10-21
UST-A-E	03-113-04	**16**	3-10-21
UST-A-S	03-113-05	**16**	3-10-21
UST-A-N	03-113-06	**20**	3-10-21
UST-A-W	03-113-07	**18**	3-10-21

OnSite Environmental Inc.

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.

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.

Z -

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

Chain of Custody

Page 1 of 1

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

Company: Farallon
Project Number: 397-035
Project Name: Block 79
Project Manager: Eric Buer
Sampled by: Courtney van Stolk

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

Laboratory Number: 03-113

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX 8260	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level) cPAH 8270	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals Pb + Cr	HEM (oil and grease) 1664A					% Moisture
1	UST-L-SP2	3-9	1332	soil	1				X																		X
2	UST-L-SP3	3-9	1334		1				X																		X
3	UST-A-bottom	3-10	1218		5		X		X		X			X	X				X		(X)						X
4	UST-A-E		1221				X		X		X			X	X				X								X
5	UST-A-S		1232				X		X		X			X	X				X								X
6	UST-A-N		1240				X		X		X			X	X				X								X
7	UST-A-W		1252				X		X		X			X	X				X								X

	Signature	Company	Date	Time
Relinquished	Courtney van Stolk	Farallon	3-10-21	1400
Received	#17	[illegible]	3-10-21	1401
Relinquished	#17	[illegible]	3-10-21	2:39 pm
Received	[illegible]	[illegible]	3/11/21	1439
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
(X) Added 3/12/21. DB (2 day TAT)

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

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

March 12, 2021

Eric Buer
Farallon Consulting
1809 7th Avenue, Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 397-035
Laboratory Reference No. 2103-131

Dear Eric:

Enclosed are the analytical results and associated quality control data for samples submitted on March 11, 2021.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

Case Narrative

Samples were collected on March 10 and 11, 2021 and received by the laboratory on March 11, 2021. 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.

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: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-5-bottom**					
Laboratory ID:	03-131-01					
Gasoline	**ND**	6.8	NWTPH-Gx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*97*	*58-129*				
Client ID:	**Hoist-5-E**					
Laboratory ID:	03-131-02					
Gasoline	**ND**	6.7	NWTPH-Gx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*98*	*58-129*				
Client ID:	**Hoist-5-W**					
Laboratory ID:	03-131-03					
Gasoline	**ND**	6.8	NWTPH-Gx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*86*	*58-129*				
Client ID:	**UST-A-SP1**					
Laboratory ID:	03-131-04					
Gasoline	**ND**	7.4	NWTPH-Gx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*58-129*				
Client ID:	**UST-A-SP2**					
Laboratory ID:	03-131-05					
Gasoline	**ND**	8.6	NWTPH-Gx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*87*	*58-129*				
Client ID:	**UST-A-SP3**					
Laboratory ID:	03-131-06					
Gasoline	**ND**	6.7	NWTPH-Gx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*58-129*				
Client ID:	**Hoist-2-bottom**					
Laboratory ID:	03-131-07					
Gasoline	**ND**	6.7	NWTPH-Gx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*58-129*				

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-2-N**					
Laboratory ID:	03-131-08					
Gasoline	**ND**	7.3	NWTPH-Gx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*58-129*				
Client ID:	**Hoist-2-W**					
Laboratory ID:	03-131-09					
Gasoline	**ND**	6.2	NWTPH-Gx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*98*	*58-129*				
Client ID:	**Hoist-S2-S**					
Laboratory ID:	03-131-10					
Gasoline	**ND**	6.6	NWTPH-Gx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*58-129*				
Client ID:	**Hoist-4-bottom**					
Laboratory ID:	03-131-11					
Gasoline	**ND**	7.0	NWTPH-Gx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*58-129*				
Client ID:	**Hoist-4-E**					
Laboratory ID:	03-131-12					
Gasoline	**ND**	7.0	NWTPH-Gx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*58-129*				

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

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:	MB0311S1					
Gasoline	**ND**	5.0	NWTPH-Gx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*58-129*				
Laboratory ID:	MB0311S2					
Gasoline	**ND**	5.0	NWTPH-Gx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*58-129*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-131-06										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*92*	*92*	*58-129*			
Laboratory ID:	03-131-07										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*95*	*93*	*58-129*			

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

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:	**Hoist-5-bottom**					
Laboratory ID:	03-131-01					
Diesel Range Organics	**ND**	31	NWTPH-Dx	3-11-21	3-11-21	
Lube Oil Range Organics	**ND**	61	NWTPH-Dx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				
Client ID:	**Hoist-5-E**					
Laboratory ID:	03-131-02					
Diesel Range Organics	**58**	31	NWTPH-Dx	3-11-21	3-11-21	
Lube Oil	**130**	63	NWTPH-Dx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				
Client ID:	**Hoist-5-W**					
Laboratory ID:	03-131-03					
Diesel Range Organics	**ND**	29	NWTPH-Dx	3-11-21	3-11-21	
Lube Oil Range Organics	**ND**	59	NWTPH-Dx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				
Client ID:	**UST-A-SP1**					
Laboratory ID:	03-131-04					
Diesel Range Organics	**850**	160	NWTPH-Dx	3-11-21	3-11-21	N
Lube Oil	**7300**	310	NWTPH-Dx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				
Client ID:	**UST-A-SP2**					
Laboratory ID:	03-131-05					
Diesel Range Organics	**100**	32	NWTPH-Dx	3-11-21	3-11-21	N
Lube Oil	**780**	65	NWTPH-Dx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				
Client ID:	**UST-A-SP3**					
Laboratory ID:	03-131-06					
Diesel Range Organics	**ND**	30	NWTPH-Dx	3-11-21	3-11-21	
Lube Oil	**100**	60	NWTPH-Dx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

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:	**Hoist-2-bottom**					
Laboratory ID:	03-131-07					
Diesel Range Organics	**110**	30	NWTPH-Dx	3-11-21	3-11-21	
Lube Oil	**280**	59	NWTPH-Dx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				
Client ID:	**Hoist-2-N**					
Laboratory ID:	03-131-08					
Diesel Range Organics	**ND**	30	NWTPH-Dx	3-11-21	3-11-21	
Lube Oil	**150**	61	NWTPH-Dx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				
Client ID:	**Hoist-2-W**					
Laboratory ID:	03-131-09					
Diesel Range Organics	**ND**	31	NWTPH-Dx	3-11-21	3-11-21	
Lube Oil Range Organics	**ND**	61	NWTPH-Dx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*76*	*50-150*				
Client ID:	**Hoist-S2-S**					
Laboratory ID:	03-131-10					
Diesel Range Organics	**ND**	31	NWTPH-Dx	3-11-21	3-11-21	
Lube Oil	**170**	62	NWTPH-Dx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*73*	*50-150*				
Client ID:	**Hoist-4-bottom**					
Laboratory ID:	03-131-11					
Diesel Range Organics	**ND**	30	NWTPH-Dx	3-11-21	3-11-21	
Lube Oil Range Organics	**ND**	60	NWTPH-Dx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*80*	*50-150*				
Client ID:	**Hoist-4-E**					
Laboratory ID:	03-131-12					
Diesel Range Organics	**ND**	30	NWTPH-Dx	3-11-21	3-11-21	
Lube Oil Range Organics	**ND**	60	NWTPH-Dx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*80*	*50-150*				

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

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:	MB0311S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	3-11-21	3-11-21	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*99*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-123-02										
	ORIG	DUP									
Diesel Range Organics	**37.1**	**28.8**	NA	NA		NA		NA	25	NA	
Lube Oil Range Organics	**179**	**123**	NA	NA		NA		NA	37	NA	
Surrogate:											
o-Terphenyl						*82*	*75*	*50-150*			
Laboratory ID:	SB0311S1										
	ORIG	DUP									
Diesel Fuel #2	**82.1**	**75.1**	NA	NA		NA		NA	9	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*100*	*93*	*50-150*			

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-5-bottom**					
Laboratory ID:	03-131-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Chloromethane	ND	0.0084	EPA 8260D	3-12-21	3-12-21	
Vinyl Chloride	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Bromomethane	ND	0.0057	EPA 8260D	3-12-21	3-12-21	
Chloroethane	ND	0.0057	EPA 8260D	3-12-21	3-12-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Iodomethane	ND	0.0057	EPA 8260D	3-12-21	3-12-21	
Methylene Chloride	ND	0.0076	EPA 8260D	3-12-21	3-12-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Bromochloromethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Chloroform	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Benzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Trichloroethene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Dibromomethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260D	3-12-21	3-12-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Toluene	ND	0.0057	EPA 8260D	3-12-21	3-12-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-5-bottom**					
Laboratory ID:	03-131-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Tetrachloroethene	0.0018	0.0011	EPA 8260D	3-12-21	3-12-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Chlorobenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Ethylbenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
m,p-Xylene	ND	0.0023	EPA 8260D	3-12-21	3-12-21	
o-Xylene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Bromoform	ND	0.0057	EPA 8260D	3-12-21	3-12-21	
Bromobenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260D	3-12-21	3-12-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Hexachlorobutadiene	ND	0.0057	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*74-131*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*97*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-5-E**					
Laboratory ID:	03-131-02					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Chloromethane	ND	0.0099	EPA 8260D	3-12-21	3-12-21	
Vinyl Chloride	ND	0.0017	EPA 8260D	3-12-21	3-12-21	
Bromomethane	ND	0.0067	EPA 8260D	3-12-21	3-12-21	
Chloroethane	ND	0.0067	EPA 8260D	3-12-21	3-12-21	
Trichlorofluoromethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Iodomethane	ND	0.0067	EPA 8260D	3-12-21	3-12-21	
Methylene Chloride	ND	0.0089	EPA 8260D	3-12-21	3-12-21	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
2,2-Dichloropropane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Bromochloromethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Chloroform	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloropropene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Benzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Trichloroethene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloropropane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Dibromomethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Bromodichloromethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260D	3-12-21	3-12-21	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Toluene	ND	0.0067	EPA 8260D	3-12-21	3-12-21	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-5-E**					
Laboratory ID:	03-131-02					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Tetrachloroethene	0.0091	0.0013	EPA 8260D	3-12-21	3-12-21	
1,3-Dichloropropane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Dibromochloromethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromoethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Chlorobenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Ethylbenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
m,p-Xylene	ND	0.0027	EPA 8260D	3-12-21	3-12-21	
o-Xylene	0.0036	0.0013	EPA 8260D	3-12-21	3-12-21	
Bromoform	ND	0.0067	EPA 8260D	3-12-21	3-12-21	
Bromobenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
2-Chlorotoluene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
4-Chlorotoluene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromo-3-chloropropane	ND	0.0067	EPA 8260D	3-12-21	3-12-21	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Hexachlorobutadiene	ND	0.0067	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*74-131*				
Toluene-d8	*102*	*78-128*				
4-Bromofluorobenzene	*96*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-5-W**					
Laboratory ID:	03-131-03					
Dichlorodifluoromethane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Chloromethane	ND	0.011	EPA 8260D	3-12-21	3-12-21	
Vinyl Chloride	ND	0.0020	EPA 8260D	3-12-21	3-12-21	
Bromomethane	ND	0.0077	EPA 8260D	3-12-21	3-12-21	
Chloroethane	ND	0.0077	EPA 8260D	3-12-21	3-12-21	
Trichlorofluoromethane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Iodomethane	ND	0.0077	EPA 8260D	3-12-21	3-12-21	
Methylene Chloride	ND	0.010	EPA 8260D	3-12-21	3-12-21	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
2,2-Dichloropropane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Bromochloromethane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Chloroform	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Carbon Tetrachloride	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloropropene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Benzene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloroethane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Trichloroethene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloropropane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Dibromomethane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Bromodichloromethane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
2-Chloroethyl Vinyl Ether	ND	0.0077	EPA 8260D	3-12-21	3-12-21	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Toluene	ND	0.0077	EPA 8260D	3-12-21	3-12-21	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-5-W**					
Laboratory ID:	03-131-03					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Tetrachloroethene	0.011	0.0015	EPA 8260D	3-12-21	3-12-21	
1,3-Dichloropropane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Dibromochloromethane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromoethane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Chlorobenzene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Ethylbenzene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
m,p-Xylene	ND	0.0031	EPA 8260D	3-12-21	3-12-21	
o-Xylene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Bromoform	ND	0.0077	EPA 8260D	3-12-21	3-12-21	
Bromobenzene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
2-Chlorotoluene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
4-Chlorotoluene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromo-3-chloropropane	ND	0.0077	EPA 8260D	3-12-21	3-12-21	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Hexachlorobutadiene	ND	0.0077	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*74-131*				
Toluene-d8	*104*	*78-128*				
4-Bromofluorobenzene	*95*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-SP1**					
Laboratory ID:	03-131-04					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Chloromethane	ND	0.0094	EPA 8260D	3-12-21	3-12-21	
Vinyl Chloride	ND	0.0016	EPA 8260D	3-12-21	3-12-21	
Bromomethane	ND	0.0063	EPA 8260D	3-12-21	3-12-21	
Chloroethane	ND	0.0063	EPA 8260D	3-12-21	3-12-21	
Trichlorofluoromethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Iodomethane	ND	0.0063	EPA 8260D	3-12-21	3-12-21	
Methylene Chloride	ND	0.0085	EPA 8260D	3-12-21	3-12-21	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
2,2-Dichloropropane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Bromochloromethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Chloroform	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloropropene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Benzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Trichloroethene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloropropane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Dibromomethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Bromodichloromethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260D	3-12-21	3-12-21	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Toluene	ND	0.0063	EPA 8260D	3-12-21	3-12-21	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-SP1**					
Laboratory ID:	03-131-04					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Tetrachloroethene	0.015	0.0013	EPA 8260D	3-12-21	3-12-21	
1,3-Dichloropropane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Dibromochloromethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromoethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Chlorobenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Ethylbenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
m,p-Xylene	0.0055	0.0025	EPA 8260D	3-12-21	3-12-21	
o-Xylene	0.0042	0.0013	EPA 8260D	3-12-21	3-12-21	
Bromoform	ND	0.0063	EPA 8260D	3-12-21	3-12-21	
Bromobenzene	ND	0.074	EPA 8260D	3-12-21	3-12-21	
1,1,2,2-Tetrachloroethane	ND	0.074	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichloropropane	ND	0.074	EPA 8260D	3-12-21	3-12-21	
2-Chlorotoluene	ND	0.074	EPA 8260D	3-12-21	3-12-21	
4-Chlorotoluene	ND	0.074	EPA 8260D	3-12-21	3-12-21	
1,3-Dichlorobenzene	ND	0.074	EPA 8260D	3-12-21	3-12-21	
1,4-Dichlorobenzene	ND	0.074	EPA 8260D	3-12-21	3-12-21	
1,2-Dichlorobenzene	ND	0.074	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromo-3-chloropropane	ND	0.37	EPA 8260D	3-12-21	3-12-21	
1,2,4-Trichlorobenzene	ND	0.074	EPA 8260D	3-12-21	3-12-21	
Hexachlorobutadiene	ND	0.37	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichlorobenzene	ND	0.074	EPA 8260D	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*122*	*74-131*				
Toluene-d8	*89*	*78-128*				
4-Bromofluorobenzene	*82*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-SP2**					
Laboratory ID:	03-131-05					
Dichlorodifluoromethane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Chloromethane	ND	0.010	EPA 8260D	3-12-21	3-12-21	
Vinyl Chloride	ND	0.0018	EPA 8260D	3-12-21	3-12-21	
Bromomethane	ND	0.0068	EPA 8260D	3-12-21	3-12-21	
Chloroethane	ND	0.0068	EPA 8260D	3-12-21	3-12-21	
Trichlorofluoromethane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Iodomethane	ND	0.0068	EPA 8260D	3-12-21	3-12-21	
Methylene Chloride	ND	0.0091	EPA 8260D	3-12-21	3-12-21	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
2,2-Dichloropropane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Bromochloromethane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Chloroform	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Carbon Tetrachloride	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloropropene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Benzene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloroethane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Trichloroethene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloropropane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Dibromomethane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Bromodichloromethane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260D	3-12-21	3-12-21	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Toluene	ND	0.0068	EPA 8260D	3-12-21	3-12-21	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-SP2**					
Laboratory ID:	03-131-05					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Tetrachloroethene	0.0065	0.0014	EPA 8260D	3-12-21	3-12-21	
1,3-Dichloropropane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Dibromochloromethane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromoethane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Chlorobenzene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Ethylbenzene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
m,p-Xylene	ND	0.0027	EPA 8260D	3-12-21	3-12-21	
o-Xylene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Bromoform	ND	0.0068	EPA 8260D	3-12-21	3-12-21	
Bromobenzene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
2-Chlorotoluene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
4-Chlorotoluene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromo-3-chloropropane	ND	0.0068	EPA 8260D	3-12-21	3-12-21	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Hexachlorobutadiene	ND	0.0068	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*74-131*				
Toluene-d8	*98*	*78-128*				
4-Bromofluorobenzene	*90*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-SP3**					
Laboratory ID:	03-131-06					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Chloromethane	ND	0.0077	EPA 8260D	3-12-21	3-12-21	
Vinyl Chloride	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Bromomethane	ND	0.0052	EPA 8260D	3-12-21	3-12-21	
Chloroethane	ND	0.0052	EPA 8260D	3-12-21	3-12-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Iodomethane	ND	0.0052	EPA 8260D	3-12-21	3-12-21	
Methylene Chloride	ND	0.0069	EPA 8260D	3-12-21	3-12-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Bromochloromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Chloroform	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Benzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Trichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Dibromomethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260D	3-12-21	3-12-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Toluene	ND	0.0052	EPA 8260D	3-12-21	3-12-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-SP3**					
Laboratory ID:	03-131-06					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Tetrachloroethene	0.0012	0.0010	EPA 8260D	3-12-21	3-12-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Chlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Ethylbenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
m,p-Xylene	ND	0.0021	EPA 8260D	3-12-21	3-12-21	
o-Xylene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Bromoform	ND	0.0052	EPA 8260D	3-12-21	3-12-21	
Bromobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260D	3-12-21	3-12-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Hexachlorobutadiene	ND	0.0052	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*74-131*				
Toluene-d8	*105*	*78-128*				
4-Bromofluorobenzene	*97*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-2-bottom**					
Laboratory ID:	03-131-07					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Chloromethane	ND	0.0094	EPA 8260D	3-12-21	3-12-21	
Vinyl Chloride	ND	0.0017	EPA 8260D	3-12-21	3-12-21	
Bromomethane	ND	0.0064	EPA 8260D	3-12-21	3-12-21	
Chloroethane	ND	0.0064	EPA 8260D	3-12-21	3-12-21	
Trichlorofluoromethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Iodomethane	ND	0.0064	EPA 8260D	3-12-21	3-12-21	
Methylene Chloride	ND	0.0085	EPA 8260D	3-12-21	3-12-21	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
2,2-Dichloropropane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Bromochloromethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Chloroform	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloropropene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Benzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Trichloroethene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloropropane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Dibromomethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Bromodichloromethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260D	3-12-21	3-12-21	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Toluene	ND	0.0064	EPA 8260D	3-12-21	3-12-21	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-2-bottom**					
Laboratory ID:	03-131-07					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Tetrachloroethene	0.017	0.0013	EPA 8260D	3-12-21	3-12-21	
1,3-Dichloropropane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Dibromochloromethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromoethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Chlorobenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Ethylbenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
m,p-Xylene	ND	0.0026	EPA 8260D	3-12-21	3-12-21	
o-Xylene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Bromoform	ND	0.0064	EPA 8260D	3-12-21	3-12-21	
Bromobenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
2-Chlorotoluene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
4-Chlorotoluene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromo-3-chloropropane	ND	0.0064	EPA 8260D	3-12-21	3-12-21	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Hexachlorobutadiene	ND	0.0064	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*74-131*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*98*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-2-N**					
Laboratory ID:	03-131-08					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Chloromethane	ND	0.0087	EPA 8260D	3-12-21	3-12-21	
Vinyl Chloride	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Bromomethane	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
Chloroethane	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Iodomethane	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
Methylene Chloride	ND	0.0079	EPA 8260D	3-12-21	3-12-21	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Bromochloromethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Chloroform	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Benzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Trichloroethene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Dibromomethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Bromodichloromethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Toluene	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-2-N**					
Laboratory ID:	03-131-08					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Tetrachloroethene	0.011	0.0012	EPA 8260D	3-12-21	3-12-21	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Dibromochloromethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Chlorobenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Ethylbenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
m,p-Xylene	ND	0.0024	EPA 8260D	3-12-21	3-12-21	
o-Xylene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Bromoform	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
Bromobenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
2-Chlorotoluene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
4-Chlorotoluene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Hexachlorobutadiene	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*74-131*				
Toluene-d8	*103*	*78-128*				
4-Bromofluorobenzene	*96*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-2-W**					
Laboratory ID:	03-131-09					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Chloromethane	ND	0.0074	EPA 8260D	3-12-21	3-12-21	
Vinyl Chloride	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Bromomethane	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
Chloroethane	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Iodomethane	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
Methylene Chloride	ND	0.0067	EPA 8260D	3-12-21	3-12-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Bromochloromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Chloroform	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Benzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Trichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Dibromomethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Toluene	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-2-W**					
Laboratory ID:	03-131-09					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Chlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Ethylbenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
m,p-Xylene	ND	0.0020	EPA 8260D	3-12-21	3-12-21	
o-Xylene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Bromoform	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
Bromobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*74-131*				
Toluene-d8	*102*	*78-128*				
4-Bromofluorobenzene	*101*	*71-130*				

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
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Project: 397-035

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-S2-S**					
Laboratory ID:	03-131-10					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Chloromethane	ND	0.0079	EPA 8260D	3-12-21	3-12-21	
Vinyl Chloride	ND	0.0014	EPA 8260D	3-12-21	3-12-21	
Bromomethane	ND	0.0053	EPA 8260D	3-12-21	3-12-21	
Chloroethane	ND	0.0053	EPA 8260D	3-12-21	3-12-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Iodomethane	ND	0.0053	EPA 8260D	3-12-21	3-12-21	
Methylene Chloride	ND	0.0071	EPA 8260D	3-12-21	3-12-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Bromochloromethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Chloroform	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Benzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Trichloroethene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Dibromomethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260D	3-12-21	3-12-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Toluene	ND	0.0053	EPA 8260D	3-12-21	3-12-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-S2-S**					
Laboratory ID:	03-131-10					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Tetrachloroethene	0.010	0.0011	EPA 8260D	3-12-21	3-12-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Chlorobenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Ethylbenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
m,p-Xylene	ND	0.0021	EPA 8260D	3-12-21	3-12-21	
o-Xylene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Bromoform	ND	0.0053	EPA 8260D	3-12-21	3-12-21	
Bromobenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260D	3-12-21	3-12-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Hexachlorobutadiene	ND	0.0053	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*74-131*				
Toluene-d8	*98*	*78-128*				
4-Bromofluorobenzene	*96*	*71-130*				

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Samples Submitted: March 11, 2021
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-4-bottom**					
Laboratory ID:	03-131-11					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Chloromethane	ND	0.0076	EPA 8260D	3-12-21	3-12-21	
Vinyl Chloride	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Bromomethane	ND	0.0051	EPA 8260D	3-12-21	3-12-21	
Chloroethane	ND	0.0051	EPA 8260D	3-12-21	3-12-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Iodomethane	ND	0.0051	EPA 8260D	3-12-21	3-12-21	
Methylene Chloride	ND	0.0069	EPA 8260D	3-12-21	3-12-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Bromochloromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Chloroform	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Benzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Trichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Dibromomethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260D	3-12-21	3-12-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Toluene	ND	0.0051	EPA 8260D	3-12-21	3-12-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-4-bottom**					
Laboratory ID:	03-131-11					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Tetrachloroethene	0.0024	0.0010	EPA 8260D	3-12-21	3-12-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Chlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Ethylbenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
m,p-Xylene	ND	0.0020	EPA 8260D	3-12-21	3-12-21	
o-Xylene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Bromoform	ND	0.0051	EPA 8260D	3-12-21	3-12-21	
Bromobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260D	3-12-21	3-12-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Hexachlorobutadiene	ND	0.0051	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*74-131*				
Toluene-d8	*99*	*78-128*				
4-Bromofluorobenzene	*99*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-4-E**					
Laboratory ID:	03-131-12					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Chloromethane	ND	0.0087	EPA 8260D	3-12-21	3-12-21	
Vinyl Chloride	ND	0.0015	EPA 8260D	3-12-21	3-12-21	
Bromomethane	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
Chloroethane	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Iodomethane	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
Methylene Chloride	ND	0.0078	EPA 8260D	3-12-21	3-12-21	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Bromochloromethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Chloroform	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Benzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Trichloroethene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Dibromomethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Bromodichloromethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Toluene	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-4-E**					
Laboratory ID:	03-131-12					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Tetrachloroethene	0.0017	0.0012	EPA 8260D	3-12-21	3-12-21	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Dibromochloromethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Chlorobenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Ethylbenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
m,p-Xylene	ND	0.0023	EPA 8260D	3-12-21	3-12-21	
o-Xylene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Bromoform	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
Bromobenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
2-Chlorotoluene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
4-Chlorotoluene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Hexachlorobutadiene	ND	0.0059	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*74-131*				
Toluene-d8	*102*	*78-128*				
4-Bromofluorobenzene	*100*	*71-130*				

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
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Project: 397-035

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QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0312S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Chloromethane	ND	0.0074	EPA 8260D	3-12-21	3-12-21	
Vinyl Chloride	ND	0.0013	EPA 8260D	3-12-21	3-12-21	
Bromomethane	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
Chloroethane	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Iodomethane	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
Methylene Chloride	ND	0.0067	EPA 8260D	3-12-21	3-12-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Bromochloromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Chloroform	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Benzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Trichloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Dibromomethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Toluene	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0312S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Chlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Ethylbenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
m,p-Xylene	ND	0.0020	EPA 8260D	3-12-21	3-12-21	
o-Xylene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Bromoform	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
Bromobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	3-12-21	3-12-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*74-131*				
Toluene-d8	*102*	*78-128*				
4-Bromofluorobenzene	*104*	*71-130*				

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0312S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0464**	**0.0440**	0.0500	0.0500	93	88	55-126	5	17	
Benzene	**0.0433**	**0.0418**	0.0500	0.0500	87	84	65-121	4	16	
Trichloroethene	**0.0486**	**0.0463**	0.0500	0.0500	97	93	74-126	5	16	
Toluene	**0.0440**	**0.0418**	0.0500	0.0500	88	84	71-121	5	16	
Chlorobenzene	**0.0453**	**0.0449**	0.0500	0.0500	91	90	72-123	1	16	
Surrogate:										
Dibromofluoromethane					*99*	*97*	*74-131*			
Toluene-d8					*97*	*96*	*78-128*			
4-Bromofluorobenzene					*103*	*102*	*71-130*			

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Samples Submitted: March 11, 2021
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Project: 397-035

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-5-bottom**					
Laboratory ID:	03-131-01					
Aroclor 1016	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1221	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1232	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1242	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1248	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1254	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1260	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*92*	*46-125*				
Client ID:	**Hoist-5-E**					
Laboratory ID:	03-131-02					
Aroclor 1016	**ND**	0.063	EPA 8082A	3-11-21	3-11-21	
Aroclor 1221	**ND**	0.063	EPA 8082A	3-11-21	3-11-21	
Aroclor 1232	**ND**	0.063	EPA 8082A	3-11-21	3-11-21	
Aroclor 1242	**ND**	0.063	EPA 8082A	3-11-21	3-11-21	
Aroclor 1248	**ND**	0.063	EPA 8082A	3-11-21	3-11-21	
Aroclor 1254	**ND**	0.063	EPA 8082A	3-11-21	3-11-21	
Aroclor 1260	**ND**	0.063	EPA 8082A	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*83*	*46-125*				
Client ID:	**Hoist-5-W**					
Laboratory ID:	03-131-03					
Aroclor 1016	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1221	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1232	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1242	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1248	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1254	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1260	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*80*	*46-125*				

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-SP1**					
Laboratory ID:	03-131-04					
Aroclor 1016	**ND**	0.063	EPA 8082A	3-11-21	3-11-21	
Aroclor 1221	**ND**	0.063	EPA 8082A	3-11-21	3-11-21	
Aroclor 1232	**ND**	0.063	EPA 8082A	3-11-21	3-11-21	
Aroclor 1242	**ND**	0.063	EPA 8082A	3-11-21	3-11-21	
Aroclor 1248	**ND**	0.063	EPA 8082A	3-11-21	3-11-21	
Aroclor 1254	**ND**	0.063	EPA 8082A	3-11-21	3-11-21	
Aroclor 1260	**ND**	0.063	EPA 8082A	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*75*	*46-125*				
Client ID:	**UST-A-SP2**					
Laboratory ID:	03-131-05					
Aroclor 1016	**ND**	0.065	EPA 8082A	3-11-21	3-11-21	
Aroclor 1221	**ND**	0.065	EPA 8082A	3-11-21	3-11-21	
Aroclor 1232	**ND**	0.065	EPA 8082A	3-11-21	3-11-21	
Aroclor 1242	**ND**	0.065	EPA 8082A	3-11-21	3-11-21	
Aroclor 1248	**ND**	0.065	EPA 8082A	3-11-21	3-11-21	
Aroclor 1254	**ND**	0.065	EPA 8082A	3-11-21	3-11-21	
Aroclor 1260	**ND**	0.065	EPA 8082A	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*83*	*46-125*				
Client ID:	**UST-A-SP3**					
Laboratory ID:	03-131-06					
Aroclor 1016	**ND**	0.060	EPA 8082A	3-11-21	3-11-21	
Aroclor 1221	**ND**	0.060	EPA 8082A	3-11-21	3-11-21	
Aroclor 1232	**ND**	0.060	EPA 8082A	3-11-21	3-11-21	
Aroclor 1242	**ND**	0.060	EPA 8082A	3-11-21	3-11-21	
Aroclor 1248	**ND**	0.060	EPA 8082A	3-11-21	3-11-21	
Aroclor 1254	**ND**	0.060	EPA 8082A	3-11-21	3-11-21	
Aroclor 1260	**ND**	0.060	EPA 8082A	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*81*	*46-125*				

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Samples Submitted: March 11, 2021
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Project: 397-035

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-2-bottom**					
Laboratory ID:	03-131-07					
Aroclor 1016	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1221	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1232	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1242	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1248	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1254	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1260	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*80*	*46-125*				
Client ID:	**Hoist-2-N**					
Laboratory ID:	03-131-08					
Aroclor 1016	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1221	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1232	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1242	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1248	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1254	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1260	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*82*	*46-125*				
Client ID:	**Hoist-2-W**					
Laboratory ID:	03-131-09					
Aroclor 1016	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1221	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1232	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1242	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1248	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1254	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Aroclor 1260	**ND**	0.061	EPA 8082A	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*75*	*46-125*				

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PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-S2-S**					
Laboratory ID:	03-131-10					
Aroclor 1016	**ND**	0.062	EPA 8082A	3-11-21	3-11-21	
Aroclor 1221	**ND**	0.062	EPA 8082A	3-11-21	3-11-21	
Aroclor 1232	**ND**	0.062	EPA 8082A	3-11-21	3-11-21	
Aroclor 1242	**ND**	0.062	EPA 8082A	3-11-21	3-11-21	
Aroclor 1248	**ND**	0.062	EPA 8082A	3-11-21	3-11-21	
Aroclor 1254	**ND**	0.062	EPA 8082A	3-11-21	3-11-21	
Aroclor 1260	**ND**	0.062	EPA 8082A	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*77*	*46-125*				
Client ID:	**Hoist-4-bottom**					
Laboratory ID:	03-131-11					
Aroclor 1016	**ND**	0.060	EPA 8082A	3-11-21	3-11-21	
Aroclor 1221	**ND**	0.060	EPA 8082A	3-11-21	3-11-21	
Aroclor 1232	**ND**	0.060	EPA 8082A	3-11-21	3-11-21	
Aroclor 1242	**ND**	0.060	EPA 8082A	3-11-21	3-11-21	
Aroclor 1248	**ND**	0.060	EPA 8082A	3-11-21	3-11-21	
Aroclor 1254	**ND**	0.060	EPA 8082A	3-11-21	3-11-21	
Aroclor 1260	**ND**	0.060	EPA 8082A	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*79*	*46-125*				
Client ID:	**Hoist-4-E**					
Laboratory ID:	03-131-12					
Aroclor 1016	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1221	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1232	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1242	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1248	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1254	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Aroclor 1260	**ND**	0.059	EPA 8082A	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*73*	*46-125*				

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PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	3-11-21	3-11-21	
Aroclor 1221	**ND**	0.050	EPA 8082A	3-11-21	3-11-21	
Aroclor 1232	**ND**	0.050	EPA 8082A	3-11-21	3-11-21	
Aroclor 1242	**ND**	0.050	EPA 8082A	3-11-21	3-11-21	
Aroclor 1248	**ND**	0.050	EPA 8082A	3-11-21	3-11-21	
Aroclor 1254	**ND**	0.050	EPA 8082A	3-11-21	3-11-21	
Aroclor 1260	**ND**	0.050	EPA 8082A	3-11-21	3-11-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*101*	*46-125*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0311S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.503**	**0.491**	0.500	0.500	N/A	**101**	**98**	50-134	2	18	
Surrogate:											
DCB						*95*	*90*	*46-125*			

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TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-5-bottom**					
Laboratory ID:	03-131-01					
Arsenic	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Barium	**280**	3.1	EPA 6010D	3-12-21	3-12-21	
Cadmium	**ND**	0.61	EPA 6010D	3-12-21	3-12-21	
Chromium	**35**	0.61	EPA 6010D	3-12-21	3-12-21	
Lead	**110**	6.1	EPA 6010D	3-12-21	3-12-21	
Mercury	**ND**	0.31	EPA 7471B	3-12-21	3-12-21	
Selenium	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Silver	**ND**	1.2	EPA 6010D	3-12-21	3-12-21	
Client ID:	**Hoist-5-E**					
Laboratory ID:	03-131-02					
Arsenic	**ND**	13	EPA 6010D	3-12-21	3-12-21	
Barium	**200**	3.1	EPA 6010D	3-12-21	3-12-21	
Cadmium	**ND**	0.63	EPA 6010D	3-12-21	3-12-21	
Chromium	**37**	0.63	EPA 6010D	3-12-21	3-12-21	
Lead	**100**	6.3	EPA 6010D	3-12-21	3-12-21	
Mercury	**1.1**	0.31	EPA 7471B	3-12-21	3-12-21	
Selenium	**ND**	13	EPA 6010D	3-12-21	3-12-21	
Silver	**ND**	1.3	EPA 6010D	3-12-21	3-12-21	
Client ID:	**Hoist-5-W**					
Laboratory ID:	03-131-03					
Arsenic	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Barium	**140**	2.9	EPA 6010D	3-12-21	3-12-21	
Cadmium	**ND**	0.59	EPA 6010D	3-12-21	3-12-21	
Chromium	**29**	0.59	EPA 6010D	3-12-21	3-12-21	
Lead	**98**	5.9	EPA 6010D	3-12-21	3-12-21	
Mercury	**ND**	0.29	EPA 7471B	3-12-21	3-12-21	
Selenium	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Silver	**ND**	1.2	EPA 6010D	3-12-21	3-12-21	

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TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-SP1**					
Laboratory ID:	03-131-04					
Arsenic	**ND**	13	EPA 6010D	3-12-21	3-12-21	
Barium	**410**	3.1	EPA 6010D	3-12-21	3-12-21	
Cadmium	**0.64**	0.63	EPA 6010D	3-12-21	3-12-21	
Chromium	**44**	0.63	EPA 6010D	3-12-21	3-12-21	
Lead	**550**	6.3	EPA 6010D	3-12-21	3-12-21	
Mercury	**0.97**	0.31	EPA 7471B	3-12-21	3-12-21	
Selenium	**ND**	13	EPA 6010D	3-12-21	3-12-21	
Silver	**1.8**	1.3	EPA 6010D	3-12-21	3-12-21	
Client ID:	**UST-A-SP2**					
Laboratory ID:	03-131-05					
Arsenic	**ND**	13	EPA 6010D	3-12-21	3-12-21	
Barium	**530**	3.2	EPA 6010D	3-12-21	3-12-21	
Cadmium	**2.0**	0.65	EPA 6010D	3-12-21	3-12-21	
Chromium	**400**	3.2	EPA 6010D	3-12-21	3-12-21	
Lead	**1200**	6.5	EPA 6010D	3-12-21	3-12-21	
Mercury	**1.5**	0.65	EPA 7471B	3-12-21	3-12-21	
Selenium	**ND**	13	EPA 6010D	3-12-21	3-12-21	
Silver	**ND**	1.3	EPA 6010D	3-12-21	3-12-21	
Client ID:	**UST-A-SP3**					
Laboratory ID:	03-131-06					
Arsenic	**15**	12	EPA 6010D	3-12-21	3-12-21	
Barium	**170**	3.0	EPA 6010D	3-12-21	3-12-21	
Cadmium	**ND**	0.60	EPA 6010D	3-12-21	3-12-21	
Chromium	**31**	0.60	EPA 6010D	3-12-21	3-12-21	
Lead	**86**	6.0	EPA 6010D	3-12-21	3-12-21	
Mercury	**0.40**	0.30	EPA 7471B	3-12-21	3-12-21	
Selenium	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Silver	**ND**	1.2	EPA 6010D	3-12-21	3-12-21	

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TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-2-bottom**					
Laboratory ID:	03-131-07					
Arsenic	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Barium	**150**	3.0	EPA 6010D	3-12-21	3-12-21	
Cadmium	**ND**	0.59	EPA 6010D	3-12-21	3-12-21	
Chromium	**35**	0.59	EPA 6010D	3-12-21	3-12-21	
Lead	**90**	5.9	EPA 6010D	3-12-21	3-12-21	
Mercury	**ND**	0.30	EPA 7471B	3-12-21	3-12-21	
Selenium	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Silver	**ND**	1.2	EPA 6010D	3-12-21	3-12-21	
Client ID:	**Hoist-2-N**					
Laboratory ID:	03-131-08					
Arsenic	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Barium	**140**	3.0	EPA 6010D	3-12-21	3-12-21	
Cadmium	**ND**	0.61	EPA 6010D	3-12-21	3-12-21	
Chromium	**30**	0.61	EPA 6010D	3-12-21	3-12-21	
Lead	**57**	6.1	EPA 6010D	3-12-21	3-12-21	
Mercury	**ND**	0.30	EPA 7471B	3-12-21	3-12-21	
Selenium	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Silver	**ND**	1.2	EPA 6010D	3-12-21	3-12-21	

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TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-2-W**					
Laboratory ID:	03-131-09					
Arsenic	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Barium	**140**	3.1	EPA 6010D	3-12-21	3-12-21	
Cadmium	**ND**	0.61	EPA 6010D	3-12-21	3-12-21	
Chromium	**48**	0.61	EPA 6010D	3-12-21	3-12-21	
Lead	**14**	6.1	EPA 6010D	3-12-21	3-12-21	
Mercury	**ND**	0.31	EPA 7471B	3-12-21	3-12-21	
Selenium	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Silver	**ND**	1.2	EPA 6010D	3-12-21	3-12-21	
Client ID:	**Hoist-S2-S**					
Laboratory ID:	03-131-10					
Arsenic	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Barium	**150**	3.1	EPA 6010D	3-12-21	3-12-21	
Cadmium	**ND**	0.62	EPA 6010D	3-12-21	3-12-21	
Chromium	**41**	0.62	EPA 6010D	3-12-21	3-12-21	
Lead	**140**	6.2	EPA 6010D	3-12-21	3-12-21	
Mercury	**ND**	0.31	EPA 7471B	3-12-21	3-12-21	
Selenium	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Silver	**ND**	1.2	EPA 6010D	3-12-21	3-12-21	
Client ID:	**Hoist-4-bottom**					
Laboratory ID:	03-131-11					
Arsenic	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Barium	**87**	3.0	EPA 6010D	3-12-21	3-12-21	
Cadmium	**ND**	0.60	EPA 6010D	3-12-21	3-12-21	
Chromium	**40**	0.60	EPA 6010D	3-12-21	3-12-21	
Lead	**15**	6.0	EPA 6010D	3-12-21	3-12-21	
Mercury	**ND**	0.30	EPA 7471B	3-12-21	3-12-21	
Selenium	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Silver	**ND**	1.2	EPA 6010D	3-12-21	3-12-21	

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TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-4-E**					
Laboratory ID:	03-131-12					
Arsenic	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Barium	**57**	3.0	EPA 6010D	3-12-21	3-12-21	
Cadmium	**ND**	0.59	EPA 6010D	3-12-21	3-12-21	
Chromium	**23**	0.59	EPA 6010D	3-12-21	3-12-21	
Lead	**6.6**	5.9	EPA 6010D	3-12-21	3-12-21	
Mercury	**ND**	0.30	EPA 7471B	3-12-21	3-12-21	
Selenium	**ND**	12	EPA 6010D	3-12-21	3-12-21	
Silver	**ND**	1.2	EPA 6010D	3-12-21	3-12-21	

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TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0312SM2					
Arsenic	**ND**	10	EPA 6010D	3-12-21	3-12-21	
Barium	**ND**	2.5	EPA 6010D	3-12-21	3-12-21	
Cadmium	**ND**	0.50	EPA 6010D	3-12-21	3-12-21	
Chromium	**ND**	0.50	EPA 6010D	3-12-21	3-12-21	
Lead	**ND**	5.0	EPA 6010D	3-12-21	3-12-21	
Selenium	**ND**	10	EPA 6010D	3-12-21	3-12-21	
Silver	**ND**	1.0	EPA 6010D	3-12-21	3-12-21	
Laboratory ID:	MB0312S1					
Mercury	**ND**	0.25	EPA 7471B	3-12-21	3-12-21	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-131-12									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**47.8**	**43.7**	NA	NA		NA	NA	9	20	
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**19.4**	**21.4**	NA	NA		NA	NA	10	20	
Lead	**5.55**	**ND**	NA	NA		NA	NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-131-12									
Mercury	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-131-12									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**94.8**	**93.4**	100	100	ND	**95**	**93**	75-125	1	20
Barium	**140**	**140**	100	100	47.8	**93**	**92**	75-125	0	20
Cadmium	**47.4**	**46.9**	50.0	50.0	ND	**95**	**94**	75-125	1	20
Chromium	**114**	**114**	100	100	19.4	**94**	**95**	75-125	0	20
Lead	**232**	**229**	250	250	5.55	**91**	**89**	75-125	1	20
Selenium	**89.7**	**87.8**	100	100	ND	**90**	**88**	75-125	2	20
Silver	**20.5**	**20.4**	25.0	25.0	ND	**82**	**81**	75-125	1	20
Laboratory ID:	03-131-12									
Mercury	**0.607**	**0.604**	0.500	0.500	0.0274	**116**	**115**	80-120	0	20

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PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-5-bottom**					
Laboratory ID:	03-131-01					
Benzo[a]anthracene	**ND**	0.0081	EPA 8270E/SIM	3-11-21	3-12-21	
Chrysene	**0.012**	0.0081	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[b]fluoranthene	**0.011**	0.0081	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo(j,k)fluoranthene	**ND**	0.0081	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[a]pyrene	**ND**	0.0081	EPA 8270E/SIM	3-11-21	3-12-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0081	EPA 8270E/SIM	3-11-21	3-12-21	
Dibenz[a,h]anthracene	**ND**	0.0081	EPA 8270E/SIM	3-11-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*88*	*46 - 113*				
Pyrene-d10	*101*	*45 - 114*				
Terphenyl-d14	*106*	*49 - 121*				

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PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-5-E**					
Laboratory ID:	03-131-02					
Benzo[a]anthracene	**0.024**	0.0084	EPA 8270E/SIM	3-11-21	3-12-21	
Chrysene	**0.024**	0.0084	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[b]fluoranthene	**0.031**	0.0084	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo(j,k)fluoranthene	**0.0085**	0.0084	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[a]pyrene	**0.025**	0.0084	EPA 8270E/SIM	3-11-21	3-12-21	
Indeno(1,2,3-c,d)pyrene	**0.019**	0.0084	EPA 8270E/SIM	3-11-21	3-12-21	
Dibenz[a,h]anthracene	**ND**	0.0084	EPA 8270E/SIM	3-11-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*90*	*46 - 113*				
Pyrene-d10	*101*	*45 - 114*				
Terphenyl-d14	*107*	*49 - 121*				

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PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-5-W**					
Laboratory ID:	03-131-03					
Benzo[a]anthracene	**0.089**	0.0078	EPA 8270E/SIM	3-11-21	3-12-21	
Chrysene	**0.076**	0.0078	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[b]fluoranthene	**0.12**	0.0078	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo(j,k)fluoranthene	**0.033**	0.0078	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[a]pyrene	**0.095**	0.0078	EPA 8270E/SIM	3-11-21	3-12-21	
Indeno(1,2,3-c,d)pyrene	**0.068**	0.0078	EPA 8270E/SIM	3-11-21	3-12-21	
Dibenz[a,h]anthracene	**0.010**	0.0078	EPA 8270E/SIM	3-11-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*94*	*46 - 113*				
Pyrene-d10	*104*	*45 - 114*				
Terphenyl-d14	*109*	*49 - 121*				

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PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-SP1**					
Laboratory ID:	03-131-04					
Benzo[a]anthracene	**0.094**	0.084	EPA 8270E/SIM	3-11-21	3-12-21	
Chrysene	**ND**	0.084	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[b]fluoranthene	**0.14**	0.084	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo(j,k)fluoranthene	**ND**	0.084	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[a]pyrene	**0.13**	0.084	EPA 8270E/SIM	3-11-21	3-12-21	
Indeno(1,2,3-c,d)pyrene	**0.19**	0.084	EPA 8270E/SIM	3-11-21	3-12-21	
Dibenz[a,h]anthracene	**ND**	0.084	EPA 8270E/SIM	3-11-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*74*	*46 - 113*				
Pyrene-d10	*86*	*45 - 114*				
Terphenyl-d14	*87*	*49 - 121*				

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PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-SP2**					
Laboratory ID:	03-131-05					
Benzo[a]anthracene	**0.075**	0.0086	EPA 8270E/SIM	3-11-21	3-12-21	
Chrysene	**0.092**	0.0086	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[b]fluoranthene	**0.13**	0.0086	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo(j,k)fluoranthene	**0.034**	0.0086	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[a]pyrene	**0.088**	0.0086	EPA 8270E/SIM	3-11-21	3-12-21	
Indeno(1,2,3-c,d)pyrene	**0.13**	0.0086	EPA 8270E/SIM	3-11-21	3-12-21	
Dibenz[a,h]anthracene	**0.026**	0.0086	EPA 8270E/SIM	3-11-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*74*	*46 - 113*				
Pyrene-d10	*89*	*45 - 114*				
Terphenyl-d14	*94*	*49 - 121*				

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PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-SP3**					
Laboratory ID:	03-131-06					
Benzo[a]anthracene	**0.024**	0.0080	EPA 8270E/SIM	3-11-21	3-12-21	
Chrysene	**0.029**	0.0080	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[b]fluoranthene	**0.034**	0.0080	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo(j,k)fluoranthene	**0.012**	0.0080	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[a]pyrene	**0.027**	0.0080	EPA 8270E/SIM	3-11-21	3-12-21	
Indeno(1,2,3-c,d)pyrene	**0.024**	0.0080	EPA 8270E/SIM	3-11-21	3-12-21	
Dibenz[a,h]anthracene	**ND**	0.0080	EPA 8270E/SIM	3-11-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*72*	*46 - 113*				
Pyrene-d10	*95*	*45 - 114*				
Terphenyl-d14	*99*	*49 - 121*				

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PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-2-bottom**					
Laboratory ID:	03-131-07					
Benzo[a]anthracene	**0.079**	0.0079	EPA 8270E/SIM	3-11-21	3-12-21	
Chrysene	**0.077**	0.0079	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[b]fluoranthene	**0.087**	0.0079	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo(j,k)fluoranthene	**0.025**	0.0079	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[a]pyrene	**0.076**	0.0079	EPA 8270E/SIM	3-11-21	3-12-21	
Indeno(1,2,3-c,d)pyrene	**0.051**	0.0079	EPA 8270E/SIM	3-11-21	3-12-21	
Dibenz[a,h]anthracene	**0.0080**	0.0079	EPA 8270E/SIM	3-11-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*79*	*46 - 113*				
Pyrene-d10	*112*	*45 - 114*				
Terphenyl-d14	*109*	*49 - 121*				

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PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-2-N**					
Laboratory ID:	03-131-08					
Benzo[a]anthracene	**0.026**	0.0081	EPA 8270E/SIM	3-11-21	3-12-21	
Chrysene	**0.032**	0.0081	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[b]fluoranthene	**0.035**	0.0081	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo(j,k)fluoranthene	**0.012**	0.0081	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[a]pyrene	**0.030**	0.0081	EPA 8270E/SIM	3-11-21	3-12-21	
Indeno(1,2,3-c,d)pyrene	**0.022**	0.0081	EPA 8270E/SIM	3-11-21	3-12-21	
Dibenz[a,h]anthracene	**ND**	0.0081	EPA 8270E/SIM	3-11-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*83*	*46 - 113*				
Pyrene-d10	*97*	*45 - 114*				
Terphenyl-d14	*103*	*49 - 121*				

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PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-2-W**					
Laboratory ID:	03-131-09					
Benzo[a]anthracene	**0.015**	0.0082	EPA 8270E/SIM	3-11-21	3-12-21	
Chrysene	**0.016**	0.0082	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[b]fluoranthene	**0.016**	0.0082	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo(j,k)fluoranthene	**ND**	0.0082	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[a]pyrene	**0.014**	0.0082	EPA 8270E/SIM	3-11-21	3-12-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0082	EPA 8270E/SIM	3-11-21	3-12-21	
Dibenz[a,h]anthracene	**ND**	0.0082	EPA 8270E/SIM	3-11-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*92*	*46 - 113*				
Pyrene-d10	*100*	*45 - 114*				
Terphenyl-d14	*101*	*49 - 121*				

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PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-S2-S**					
Laboratory ID:	03-131-10					
Benzo[a]anthracene	**0.056**	0.0083	EPA 8270E/SIM	3-11-21	3-12-21	
Chrysene	**0.058**	0.0083	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[b]fluoranthene	**0.080**	0.0083	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo(j,k)fluoranthene	**0.024**	0.0083	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[a]pyrene	**0.063**	0.0083	EPA 8270E/SIM	3-11-21	3-12-21	
Indeno(1,2,3-c,d)pyrene	**0.051**	0.0083	EPA 8270E/SIM	3-11-21	3-12-21	
Dibenz[a,h]anthracene	**0.0089**	0.0083	EPA 8270E/SIM	3-11-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*87*	*46 - 113*				
Pyrene-d10	*99*	*45 - 114*				
Terphenyl-d14	*102*	*49 - 121*				

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PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-4-bottom**					
Laboratory ID:	03-131-11					
Benzo[a]anthracene	**ND**	0.0080	EPA 8270E/SIM	3-11-21	3-12-21	
Chrysene	**ND**	0.0080	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[b]fluoranthene	**ND**	0.0080	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo(j,k)fluoranthene	**ND**	0.0080	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[a]pyrene	**ND**	0.0080	EPA 8270E/SIM	3-11-21	3-12-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0080	EPA 8270E/SIM	3-11-21	3-12-21	
Dibenz[a,h]anthracene	**ND**	0.0080	EPA 8270E/SIM	3-11-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*95*	*46 - 113*				
Pyrene-d10	*98*	*45 - 114*				
Terphenyl-d14	*99*	*49 - 121*				

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-4-E**					
Laboratory ID:	03-131-12					
Benzo[a]anthracene	**ND**	0.0079	EPA 8270E/SIM	3-11-21	3-12-21	
Chrysene	**ND**	0.0079	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[b]fluoranthene	**ND**	0.0079	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo(j,k)fluoranthene	**ND**	0.0079	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[a]pyrene	**ND**	0.0079	EPA 8270E/SIM	3-11-21	3-12-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0079	EPA 8270E/SIM	3-11-21	3-12-21	
Dibenz[a,h]anthracene	**ND**	0.0079	EPA 8270E/SIM	3-11-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*84*	*46 - 113*				
Pyrene-d10	*94*	*45 - 114*				
Terphenyl-d14	*100*	*49 - 121*				

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270E/SIM	3-11-21	3-12-21	
Chrysene	**ND**	0.0067	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270E/SIM	3-11-21	3-12-21	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270E/SIM	3-11-21	3-12-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270E/SIM	3-11-21	3-12-21	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270E/SIM	3-11-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*103*	*46 - 113*				
Pyrene-d10	*103*	*45 - 114*				
Terphenyl-d14	*115*	*49 - 121*				

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0311S1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	**0.0845**	**0.0813**	0.0833	0.0833	101	98	72 - 129	4	15	
Chrysene	**0.0888**	**0.0897**	0.0833	0.0833	107	108	66 - 123	1	15	
Benzo[b]fluoranthene	**0.0840**	**0.0830**	0.0833	0.0833	101	100	68 - 128	1	15	
Benzo(j,k)fluoranthene	**0.0902**	**0.0895**	0.0833	0.0833	108	107	63 - 128	1	16	
Benzo[a]pyrene	**0.0846**	**0.0837**	0.0833	0.0833	102	100	66 - 130	1	15	
Indeno(1,2,3-c,d)pyrene	**0.0823**	**0.0820**	0.0833	0.0833	99	98	63 - 135	0	15	
Dibenz[a,h]anthracene	**0.0835**	**0.0835**	0.0833	0.0833	100	100	65 - 130	0	15	
Surrogate:										
2-Fluorobiphenyl					*102*	*104*	*46 - 113*			
Pyrene-d10					*107*	*108*	*45 - 114*			
Terphenyl-d14					*112*	*110*	*49 - 121*			

Date of Report: March 12, 2021
Samples Submitted: March 11, 2021
Laboratory Reference: 2103-131
Project: 397-035

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
Hoist-5-bottom	03-131-01	**18**	3-11-21
Hoist-5-E	03-131-02	**20**	3-11-21
Hoist-5-W	03-131-03	**15**	3-11-21
UST-A-SP1	03-131-04	**20**	3-11-21
UST-A-SP2	03-131-05	**23**	3-11-21
UST-A-SP3	03-131-06	**16**	3-11-21
Hoist-2-bottom	03-131-07	**16**	3-11-21
Hoist-2-N	03-131-08	**17**	3-11-21
Hoist-2-W	03-131-09	**19**	3-11-21
Hoist-S2-S	03-131-10	**19**	3-11-21
Hoist-4-bottom	03-131-11	**17**	3-11-21
Hoist-4-E	03-131-12	**16**	3-11-21

OnSite Environmental Inc.

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.

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.

Z -

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

Chain of Custody

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

Company: Farallon
Project Number: 397-035
Project Name: Block 79
Project Manager: Eric Buer
Sampled by: Courtney A van Stolk

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

Laboratory Number: 03-131

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX 8260	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	cPAHs 8270				% Moisture
1	Hoist-5-bottom	3-10	1508	soil	5		X		X		X				X				X				X				X
2	Hoist-5-E	↓	1510	↓	↓		X		X		X				X				X				X				X
3	Hoist-5-W	↓	1515	↓	↓		X		X		X				X				X				X				X
4	UST-A-SP1	3-11	0828	↓	5		X		X		X				X				X				X				X
5	UST-A-SP2	↓	0835	↓	↓		X		X		X				X				X				X				X
6	UST-A-SP3	↓	0847	↓	↓		X		X		X				X				X				X				X
7	Hoist-2-bottom	↓	1134	↓	6		X		X		X				X				X				X				X
8	Hoist-2-N	↓	1136	↓	↓		X		X		X				X				X				X				X
9	Hoist-2-W	↓	1138	↓	↓		X		X		X				X				X				X				X
10	Hoist-S2-S	↓	1328	↓	↓		X		X		X				X				X				X				X

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	Courtney A van Stolk	Farallon	3-11-21	1446	
Received		Alpha	3-11-21	1446	
Relinquished		Alpha	3-11-21	15:42	
Received		OSE	3/11/21	1542	
Relinquished					
Received					Data Package: Standard ☐ Level III ☐ Level IV ☐
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.

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

Laboratory Number: 03-131

Company: Farallon

Project Number: 397-035

Project Name: Block 79

Project Manager: Eric Buer

Sampled by: Courtney van Stolk

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☒ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days)
- ☐ ________ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	Hoist-4-bottom	3-11	1416	Soil	6
12	Hoist-4-E	"	1418	"	"

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX 8260	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	cPAHs 8270				% Moisture
11		X		X		X				X				X				X				X
12		X		X		X				X				X				X				X

	Signature	Company	Date	Time
Relinquished	Courtney van Stolk	Farallon	3-11-21	1446
Received	Christopher [signature]	Alpha	3-11-21	1446
Relinquished	Christopher [signature]	Alpha	3-11-21	15:42
Received	[signature]	OSE	3/11/21	1542
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

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

March 16, 2021

Eric Buer
Farallon Consulting
1809 7th Avenue, Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 397-035
Laboratory Reference No. 2103-145

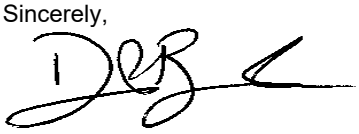
Dear Eric:

Enclosed are the analytical results and associated quality control data for samples submitted on March 12, 2021.

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

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

Sincerely,



David Baumeister
Project Manager

Enclosures

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

Case Narrative

Samples were collected on March 12, 2021 and received by the laboratory on March 12, 2021. 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.

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.

Total Metals EPA 6010D/7471B Analysis

The duplicate RPD for Barium is outside control limits due to sample in-homogeneity. The sample was re-extracted and re-analyzed with similar results.

The Matrix Spike/ Matrix Spike Duplicate recoveries for Barium are outside control limits due to matrix in-homogeneity. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 98%.

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: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

HYDROCARBON IDENTIFICATION
NWTPH-HCID

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-15.0**					
Laboratory ID:	03-145-09					
Gasoline Range Organics	**ND**	28	NWTPH-HCID	3-15-21	3-15-21	
Diesel Range Organics	**Detected**	70	NWTPH-HCID	3-15-21	3-15-21	N
Lube Oil	**Detected**	140	NWTPH-HCID	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*106*	*50-150*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

HYDROCARBON IDENTIFICATION
NWTPH-HCID
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315S2					
Gasoline Range Organics	**ND**	20	NWTPH-HCID	3-15-21	3-15-21	
Diesel Range Organics	**ND**	50	NWTPH-HCID	3-15-21	3-15-21	
Lube Oil Range Organics	**ND**	100	NWTPH-HCID	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*122*	*50-150*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-3-W**					
Laboratory ID:	03-145-01					
Gasoline	**ND**	6.8	NWTPH-Gx	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*97*	*58-129*				
Client ID:	**Hoist-3-N**					
Laboratory ID:	03-145-02					
Gasoline	**ND**	7.7	NWTPH-Gx	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*96*	*58-129*				
Client ID:	**Hoist-3-E**					
Laboratory ID:	03-145-03					
Gasoline	**ND**	5.8	NWTPH-Gx	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*58-129*				
Client ID:	**Hoist-6-N**					
Laboratory ID:	03-145-04					
Gasoline	**ND**	8.3	NWTPH-Gx	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*98*	*58-129*				
Client ID:	**Hoist-6-W**					
Laboratory ID:	03-145-05					
Gasoline	**ND**	7.9	NWTPH-Gx	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*111*	*58-129*				
Client ID:	**Hoist-1-S**					
Laboratory ID:	03-145-06					
Gasoline	**ND**	5.4	NWTPH-Gx	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*58-129*				
Client ID:	**Hoist-1-E**					
Laboratory ID:	03-145-07					
Gasoline	**ND**	6.6	NWTPH-Gx	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*103*	*58-129*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-1-W**					
Laboratory ID:	03-145-08					
Gasoline	**ND**	6.4	NWTPH-Gx	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*101*	*58-129*				
Client ID:	**UST-A-15.0**					
Laboratory ID:	03-145-09					
Gasoline	**ND**	20	NWTPH-Gx	3-12-21	3-12-21	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*58-129*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

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:	MB0312S1					
Gasoline	**ND**	5.0	NWTPH-Gx	3-12-21	3-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*58-129*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-110-12										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*95*	*95*	*58-129*			

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

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:	**Hoist-3-W**					
Laboratory ID:	03-145-01					
Diesel Range Organics	**95**	31	NWTPH-Dx	3-15-21	3-15-21	N
Lube Oil	**250**	61	NWTPH-Dx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				
Client ID:	**Hoist-3-N**					
Laboratory ID:	03-145-02					
Diesel Range Organics	**280**	30	NWTPH-Dx	3-15-21	3-15-21	N
Lube Oil	**1500**	61	NWTPH-Dx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				
Client ID:	**Hoist-3-E**					
Laboratory ID:	03-145-03					
Diesel Range Organics	**ND**	28	NWTPH-Dx	3-15-21	3-15-21	
Lube Oil Range Organics	**ND**	55	NWTPH-Dx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*79*	*50-150*				
Client ID:	**Hoist-6-N**					
Laboratory ID:	03-145-04					
Diesel Range Organics	**ND**	32	NWTPH-Dx	3-15-21	3-15-21	
Lube Oil Range Organics	**ND**	64	NWTPH-Dx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				
Client ID:	**Hoist-1-S**					
Laboratory ID:	03-145-06					
Diesel Range Organics	**1200**	270	NWTPH-Dx	3-15-21	3-16-21	N
Lube Oil	**4000**	540	NWTPH-Dx	3-15-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*---*	*50-150*				S
Client ID:	**Hoist-1-E**					
Laboratory ID:	03-145-07					
Diesel Range Organics	**160**	31	NWTPH-Dx	3-15-21	3-15-21	N
Lube Oil	**490**	63	NWTPH-Dx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*81*	*50-150*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

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:	**Hoist-1-W**					
Laboratory ID:	03-145-08					
Diesel Range Organics	**150**	31	NWTPH-Dx	3-15-21	3-15-21	N
Lube Oil	**600**	62	NWTPH-Dx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*90*	*50-150*				
Client ID:	**UST-A-15.0**					
Laboratory ID:	03-145-09					
Diesel Range Organics	**2600**	880	NWTPH-Dx	3-15-21	3-16-21	N
Lube Oil	**25000**	1800	NWTPH-Dx	3-15-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	---	*50-150*				S

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

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:	MB0315S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	3-15-21	3-15-21	
Lube Oil Range Organics	**ND**	100	NWTPH-Dx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*101*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	SB0315S1										
	ORIG	DUP									
Diesel Fuel #2	**101**	**99.7**	NA	NA		NA		NA	1	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*103*	*108*	*50-150*			

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-3-W**					
Laboratory ID:	03-145-01					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Chloromethane	ND	0.0058	EPA 8260D	3-15-21	3-15-21	
Vinyl Chloride	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Bromomethane	ND	0.011	EPA 8260D	3-15-21	3-15-21	
Chloroethane	ND	0.010	EPA 8260D	3-15-21	3-15-21	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Iodomethane	ND	0.014	EPA 8260D	3-15-21	3-15-21	
Methylene Chloride	ND	0.0092	EPA 8260D	3-15-21	3-15-21	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Bromochloromethane	ND	0.0015	EPA 8260D	3-15-21	3-15-21	
Chloroform	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Carbon Tetrachloride	ND	0.0015	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Benzene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Trichloroethene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Dibromomethane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Bromodichloromethane	ND	0.0015	EPA 8260D	3-15-21	3-15-21	
2-Chloroethyl Vinyl Ether	ND	0.011	EPA 8260D	3-15-21	3-15-21	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Toluene	0.0087	0.0058	EPA 8260D	3-15-21	3-15-21	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-3-W**					
Laboratory ID:	03-145-01					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Tetrachloroethene	0.023	0.0012	EPA 8260D	3-15-21	3-15-21	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Dibromochloromethane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Chlorobenzene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Ethylbenzene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
m,p-Xylene	0.0027	0.0023	EPA 8260D	3-15-21	3-15-21	
o-Xylene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Bromoform	ND	0.0058	EPA 8260D	3-15-21	3-15-21	
Bromobenzene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
2-Chlorotoluene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
4-Chlorotoluene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260D	3-15-21	3-15-21	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Hexachlorobutadiene	ND	0.0058	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*74-131*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*95*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-3-N**					
Laboratory ID:	03-145-02					
Dichlorodifluoromethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Chloromethane	ND	0.0049	EPA 8260D	3-15-21	3-15-21	
Vinyl Chloride	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Bromomethane	ND	0.0098	EPA 8260D	3-15-21	3-15-21	
Chloroethane	ND	0.0088	EPA 8260D	3-15-21	3-15-21	
Trichlorofluoromethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Iodomethane	ND	0.012	EPA 8260D	3-15-21	3-15-21	
Methylene Chloride	ND	0.0079	EPA 8260D	3-15-21	3-15-21	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
2,2-Dichloropropane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Bromochloromethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Chloroform	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloropropene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Benzene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloroethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Trichloroethene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloropropane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Dibromomethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Bromodichloromethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
2-Chloroethyl Vinyl Ether	ND	0.0096	EPA 8260D	3-15-21	3-15-21	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Toluene	ND	0.0049	EPA 8260D	3-15-21	3-15-21	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-3-N**					
Laboratory ID:	03-145-02					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Tetrachloroethene	0.012	0.00099	EPA 8260D	3-15-21	3-15-21	
1,3-Dichloropropane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Dibromochloromethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromoethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Chlorobenzene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Ethylbenzene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
m,p-Xylene	ND	0.0020	EPA 8260D	3-15-21	3-15-21	
o-Xylene	0.0011	0.00099	EPA 8260D	3-15-21	3-15-21	
Bromoform	ND	0.0049	EPA 8260D	3-15-21	3-15-21	
Bromobenzene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
2-Chlorotoluene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
4-Chlorotoluene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260D	3-15-21	3-15-21	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Hexachlorobutadiene	ND	0.0049	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*111*	*74-131*				
Toluene-d8	*99*	*78-128*				
4-Bromofluorobenzene	*93*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-3-E**					
Laboratory ID:	03-145-03					
Dichlorodifluoromethane	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Chloromethane	ND	0.0048	EPA 8260D	3-15-21	3-15-21	
Vinyl Chloride	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Bromomethane	ND	0.0095	EPA 8260D	3-15-21	3-15-21	
Chloroethane	ND	0.0085	EPA 8260D	3-15-21	3-15-21	
Trichlorofluoromethane	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Iodomethane	ND	0.011	EPA 8260D	3-15-21	3-15-21	
Methylene Chloride	ND	0.0077	EPA 8260D	3-15-21	3-15-21	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethane	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
2,2-Dichloropropane	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
(cis) 1,2-Dichloroethene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Bromochloromethane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
Chloroform	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloropropene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Benzene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloroethane	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Trichloroethene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloropropane	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Dibromomethane	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Bromodichloromethane	ND	0.0012	EPA 8260D	3-15-21	3-15-21	
2-Chloroethyl Vinyl Ether	ND	0.0093	EPA 8260D	3-15-21	3-15-21	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Toluene	ND	0.0048	EPA 8260D	3-15-21	3-15-21	
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-3-E**					
Laboratory ID:	03-145-03					
1,1,2-Trichloroethane	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Tetrachloroethene	0.0040	0.00096	EPA 8260D	3-15-21	3-15-21	
1,3-Dichloropropane	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Dibromochloromethane	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromoethane	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Chlorobenzene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Ethylbenzene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
m,p-Xylene	ND	0.0019	EPA 8260D	3-15-21	3-15-21	
o-Xylene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Bromoform	ND	0.0048	EPA 8260D	3-15-21	3-15-21	
Bromobenzene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
1,1,2,2-Tetrachloroethane	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
2-Chlorotoluene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
4-Chlorotoluene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260D	3-15-21	3-15-21	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Hexachlorobutadiene	ND	0.0048	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260D	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*74-131*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*100*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-6-N**					
Laboratory ID:	03-145-04					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Chloromethane	ND	0.0065	EPA 8260D	3-15-21	3-15-21	
Vinyl Chloride	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Bromomethane	ND	0.013	EPA 8260D	3-15-21	3-15-21	
Chloroethane	ND	0.012	EPA 8260D	3-15-21	3-15-21	
Trichlorofluoromethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Iodomethane	ND	0.016	EPA 8260D	3-15-21	3-15-21	
Methylene Chloride	ND	0.010	EPA 8260D	3-15-21	3-15-21	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
2,2-Dichloropropane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Bromochloromethane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Chloroform	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Carbon Tetrachloride	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloropropene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Benzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloroethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Trichloroethene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloropropane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Dibromomethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Bromodichloromethane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
2-Chloroethyl Vinyl Ether	ND	0.013	EPA 8260D	3-15-21	3-15-21	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Toluene	ND	0.0065	EPA 8260D	3-15-21	3-15-21	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-6-N**					
Laboratory ID:	03-145-04					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Tetrachloroethene	0.0069	0.0013	EPA 8260D	3-15-21	3-15-21	
1,3-Dichloropropane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Dibromochloromethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromoethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Chlorobenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Ethylbenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
m,p-Xylene	ND	0.0026	EPA 8260D	3-15-21	3-15-21	
o-Xylene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Bromoform	ND	0.0065	EPA 8260D	3-15-21	3-15-21	
Bromobenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
2-Chlorotoluene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
4-Chlorotoluene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromo-3-chloropropane	ND	0.0065	EPA 8260D	3-15-21	3-15-21	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Hexachlorobutadiene	ND	0.0065	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*74-131*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*98*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-6-W**					
Laboratory ID:	03-145-05					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Chloromethane	ND	0.0066	EPA 8260D	3-15-21	3-15-21	
Vinyl Chloride	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Bromomethane	ND	0.013	EPA 8260D	3-15-21	3-15-21	
Chloroethane	ND	0.012	EPA 8260D	3-15-21	3-15-21	
Trichlorofluoromethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Iodomethane	ND	0.016	EPA 8260D	3-15-21	3-15-21	
Methylene Chloride	ND	0.011	EPA 8260D	3-15-21	3-15-21	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
2,2-Dichloropropane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Bromochloromethane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Chloroform	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Carbon Tetrachloride	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloropropene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Benzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloroethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Trichloroethene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloropropane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Dibromomethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Bromodichloromethane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
2-Chloroethyl Vinyl Ether	ND	0.013	EPA 8260D	3-15-21	3-15-21	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Toluene	ND	0.0066	EPA 8260D	3-15-21	3-15-21	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-6-W**					
Laboratory ID:	03-145-05					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Tetrachloroethene	0.0074	0.0013	EPA 8260D	3-15-21	3-15-21	
1,3-Dichloropropane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Dibromochloromethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromoethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Chlorobenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Ethylbenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
m,p-Xylene	ND	0.0026	EPA 8260D	3-15-21	3-15-21	
o-Xylene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Bromoform	ND	0.0066	EPA 8260D	3-15-21	3-15-21	
Bromobenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
2-Chlorotoluene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
4-Chlorotoluene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromo-3-chloropropane	ND	0.0066	EPA 8260D	3-15-21	3-15-21	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Hexachlorobutadiene	ND	0.0066	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*74-131*				
Toluene-d8	*99*	*78-128*				
4-Bromofluorobenzene	*94*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
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Project: 397-035

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-1-S**					
Laboratory ID:	03-145-06					
Dichlorodifluoromethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Chloromethane	ND	0.0049	EPA 8260D	3-15-21	3-15-21	
Vinyl Chloride	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Bromomethane	ND	0.0098	EPA 8260D	3-15-21	3-15-21	
Chloroethane	ND	0.0088	EPA 8260D	3-15-21	3-15-21	
Trichlorofluoromethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Iodomethane	ND	0.012	EPA 8260D	3-15-21	3-15-21	
Methylene Chloride	ND	0.0079	EPA 8260D	3-15-21	3-15-21	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
2,2-Dichloropropane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Bromochloromethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Chloroform	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloropropene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Benzene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloroethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Trichloroethene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloropropane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Dibromomethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Bromodichloromethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
2-Chloroethyl Vinyl Ether	ND	0.0096	EPA 8260D	3-15-21	3-15-21	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Toluene	ND	0.0049	EPA 8260D	3-15-21	3-15-21	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-1-S**					
Laboratory ID:	03-145-06					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Tetrachloroethene	0.058	0.00099	EPA 8260D	3-15-21	3-15-21	
1,3-Dichloropropane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Dibromochloromethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromoethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Chlorobenzene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Ethylbenzene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
m,p-Xylene	ND	0.0020	EPA 8260D	3-15-21	3-15-21	
o-Xylene	ND	0.00099	EPA 8260D	3-15-21	3-15-21	
Bromoform	ND	0.0049	EPA 8260D	3-15-21	3-15-21	
Bromobenzene	ND	0.048	EPA 8260D	3-16-21	3-16-21	
1,1,2,2-Tetrachloroethane	ND	0.048	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichloropropane	ND	0.048	EPA 8260D	3-16-21	3-16-21	
2-Chlorotoluene	ND	0.048	EPA 8260D	3-16-21	3-16-21	
4-Chlorotoluene	ND	0.048	EPA 8260D	3-16-21	3-16-21	
1,3-Dichlorobenzene	ND	0.048	EPA 8260D	3-16-21	3-16-21	
1,4-Dichlorobenzene	ND	0.048	EPA 8260D	3-16-21	3-16-21	
1,2-Dichlorobenzene	ND	0.048	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromo-3-chloropropane	ND	0.24	EPA 8260D	3-16-21	3-16-21	
1,2,4-Trichlorobenzene	ND	0.048	EPA 8260D	3-16-21	3-16-21	
Hexachlorobutadiene	ND	0.24	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichlorobenzene	ND	0.048	EPA 8260D	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*121*	*74-131*				
Toluene-d8	*84*	*78-128*				
4-Bromofluorobenzene	*80*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-1-E**					
Laboratory ID:	03-145-07					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Chloromethane	ND	0.0054	EPA 8260D	3-15-21	3-15-21	
Vinyl Chloride	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Bromomethane	ND	0.011	EPA 8260D	3-15-21	3-15-21	
Chloroethane	ND	0.0097	EPA 8260D	3-15-21	3-15-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Iodomethane	ND	0.013	EPA 8260D	3-15-21	3-15-21	
Methylene Chloride	ND	0.0087	EPA 8260D	3-15-21	3-15-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Bromochloromethane	ND	0.0014	EPA 8260D	3-15-21	3-15-21	
Chloroform	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Carbon Tetrachloride	ND	0.0014	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Benzene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Trichloroethene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Dibromomethane	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Bromodichloromethane	ND	0.0014	EPA 8260D	3-15-21	3-15-21	
2-Chloroethyl Vinyl Ether	ND	0.011	EPA 8260D	3-15-21	3-15-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Toluene	ND	0.0054	EPA 8260D	3-15-21	3-15-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-1-E**					
Laboratory ID:	03-145-07					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Tetrachloroethene	0.013	0.0011	EPA 8260D	3-15-21	3-15-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Chlorobenzene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Ethylbenzene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
m,p-Xylene	ND	0.0022	EPA 8260D	3-15-21	3-15-21	
o-Xylene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Bromoform	ND	0.0054	EPA 8260D	3-15-21	3-15-21	
Bromobenzene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260D	3-15-21	3-15-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Hexachlorobutadiene	ND	0.0054	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*74-131*				
Toluene-d8	*98*	*78-128*				
4-Bromofluorobenzene	*95*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-1-W**					
Laboratory ID:	03-145-08					
Dichlorodifluoromethane	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Chloromethane	ND	0.0049	EPA 8260D	3-15-21	3-15-21	
Vinyl Chloride	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Bromomethane	ND	0.0096	EPA 8260D	3-15-21	3-15-21	
Chloroethane	ND	0.0087	EPA 8260D	3-15-21	3-15-21	
Trichlorofluoromethane	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Iodomethane	ND	0.012	EPA 8260D	3-15-21	3-15-21	
Methylene Chloride	ND	0.0078	EPA 8260D	3-15-21	3-15-21	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethane	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
2,2-Dichloropropane	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Bromochloromethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Chloroform	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloropropene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Benzene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloroethane	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Trichloroethene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloropropane	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Dibromomethane	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Bromodichloromethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
2-Chloroethyl Vinyl Ether	ND	0.0094	EPA 8260D	3-15-21	3-15-21	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Toluene	ND	0.0049	EPA 8260D	3-15-21	3-15-21	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
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Project: 397-035

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-1-W**					
Laboratory ID:	03-145-08					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Tetrachloroethene	0.010	0.00097	EPA 8260D	3-15-21	3-15-21	
1,3-Dichloropropane	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Dibromochloromethane	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromoethane	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Chlorobenzene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Ethylbenzene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
m,p-Xylene	ND	0.0019	EPA 8260D	3-15-21	3-15-21	
o-Xylene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Bromoform	ND	0.0049	EPA 8260D	3-15-21	3-15-21	
Bromobenzene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
2-Chlorotoluene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
4-Chlorotoluene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260D	3-15-21	3-15-21	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Hexachlorobutadiene	ND	0.0049	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260D	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*74-131*				
Toluene-d8	*97*	*78-128*				
4-Bromofluorobenzene	*93*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-15.0**					
Laboratory ID:	03-145-09					
Dichlorodifluoromethane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Chloromethane	ND	0.0085	EPA 8260D	3-15-21	3-15-21	
Vinyl Chloride	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Bromomethane	ND	0.017	EPA 8260D	3-15-21	3-15-21	
Chloroethane	ND	0.015	EPA 8260D	3-15-21	3-15-21	
Trichlorofluoromethane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethene	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Iodomethane	ND	0.020	EPA 8260D	3-15-21	3-15-21	
Methylene Chloride	ND	0.014	EPA 8260D	3-15-21	3-15-21	
(trans) 1,2-Dichloroethene	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
2,2-Dichloropropane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
(cis) 1,2-Dichloroethene	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Bromochloromethane	ND	0.0022	EPA 8260D	3-15-21	3-15-21	
Chloroform	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
1,1,1-Trichloroethane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Carbon Tetrachloride	ND	0.0022	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloropropene	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Benzene	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloroethane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Trichloroethene	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloropropane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Dibromomethane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Bromodichloromethane	ND	0.0022	EPA 8260D	3-15-21	3-15-21	
2-Chloroethyl Vinyl Ether	ND	0.016	EPA 8260D	3-15-21	3-15-21	
(cis) 1,3-Dichloropropene	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Toluene	ND	0.0085	EPA 8260D	3-15-21	3-15-21	
(trans) 1,3-Dichloropropene	ND	0.0017	EPA 8260D	3-15-21	3-15-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-15.0**					
Laboratory ID:	03-145-09					
1,1,2-Trichloroethane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Tetrachloroethene	0.0088	0.0017	EPA 8260D	3-15-21	3-15-21	
1,3-Dichloropropane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Dibromochloromethane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromoethane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Chlorobenzene	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
1,1,1,2-Tetrachloroethane	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
Ethylbenzene	ND	0.0017	EPA 8260D	3-15-21	3-15-21	
m,p-Xylene	0.0036	0.0034	EPA 8260D	3-15-21	3-15-21	
o-Xylene	0.0021	0.0017	EPA 8260D	3-15-21	3-15-21	
Bromoform	ND	0.0085	EPA 8260D	3-15-21	3-15-21	
Bromobenzene	ND	0.097	EPA 8260D	3-16-21	3-16-21	
1,1,2,2-Tetrachloroethane	ND	0.097	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichloropropane	ND	0.097	EPA 8260D	3-16-21	3-16-21	
2-Chlorotoluene	ND	0.097	EPA 8260D	3-16-21	3-16-21	
4-Chlorotoluene	ND	0.097	EPA 8260D	3-16-21	3-16-21	
1,3-Dichlorobenzene	ND	0.097	EPA 8260D	3-16-21	3-16-21	
1,4-Dichlorobenzene	ND	0.097	EPA 8260D	3-16-21	3-16-21	
1,2-Dichlorobenzene	ND	0.097	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromo-3-chloropropane	ND	0.48	EPA 8260D	3-16-21	3-16-21	
1,2,4-Trichlorobenzene	ND	0.097	EPA 8260D	3-16-21	3-16-21	
Hexachlorobutadiene	ND	0.48	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichlorobenzene	ND	0.097	EPA 8260D	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*74-131*				
Toluene-d8	*86*	*78-128*				
4-Bromofluorobenzene	*80*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Chloromethane	ND	0.0050	EPA 8260D	3-15-21	3-15-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Bromomethane	ND	0.0099	EPA 8260D	3-15-21	3-15-21	
Chloroethane	ND	0.0089	EPA 8260D	3-15-21	3-15-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Iodomethane	ND	0.012	EPA 8260D	3-15-21	3-15-21	
Methylene Chloride	ND	0.0080	EPA 8260D	3-15-21	3-15-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Bromochloromethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
Chloroform	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Benzene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Trichloroethene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Dibromomethane	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Bromodichloromethane	ND	0.0013	EPA 8260D	3-15-21	3-15-21	
2-Chloroethyl Vinyl Ether	ND	0.0097	EPA 8260D	3-15-21	3-15-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Toluene	ND	0.0050	EPA 8260D	3-15-21	3-15-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	

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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Chlorobenzene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Ethylbenzene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
m,p-Xylene	ND	0.0020	EPA 8260D	3-15-21	3-15-21	
o-Xylene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Bromoform	ND	0.0050	EPA 8260D	3-15-21	3-15-21	
Bromobenzene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	3-15-21	3-15-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	3-15-21	3-15-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*74-131*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*100*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Chloromethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromomethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Chloroethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Iodomethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Methylene Chloride	ND	0.0066	EPA 8260D	3-16-21	3-16-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromochloromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Chloroform	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Benzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Trichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Dibromomethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Toluene	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	

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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Chlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Ethylbenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
m,p-Xylene	ND	0.0020	EPA 8260D	3-16-21	3-16-21	
o-Xylene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromoform	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Bromobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*74-131*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0315S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0546**	**0.0464**	0.0500	0.0500	109	93	55-126	16	17	
Benzene	**0.0473**	**0.0466**	0.0500	0.0500	95	93	65-121	1	16	
Trichloroethene	**0.0506**	**0.0505**	0.0500	0.0500	101	101	74-126	0	16	
Toluene	**0.0463**	**0.0463**	0.0500	0.0500	93	93	71-121	0	16	
Chlorobenzene	**0.0472**	**0.0484**	0.0500	0.0500	94	97	72-123	3	16	
Surrogate:										
Dibromofluoromethane					*89*	*103*	*74-131*			
Toluene-d8					*102*	*98*	*78-128*			
4-Bromofluorobenzene					*102*	*102*	*71-130*			
Laboratory ID:	SB0316S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0453**	**0.0446**	0.0500	0.0500	91	89	55-126	2	17	
Benzene	**0.0478**	**0.0482**	0.0500	0.0500	96	96	65-121	1	16	
Trichloroethene	**0.0524**	**0.0504**	0.0500	0.0500	105	101	74-126	4	16	
Toluene	**0.0483**	**0.0475**	0.0500	0.0500	97	95	71-121	2	16	
Chlorobenzene	**0.0496**	**0.0489**	0.0500	0.0500	99	98	72-123	1	16	
Surrogate:										
Dibromofluoromethane					*97*	*102*	*74-131*			
Toluene-d8					*98*	*98*	*78-128*			
4-Bromofluorobenzene					*107*	*105*	*71-130*			

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-3-W**					
Laboratory ID:	03-145-01					
Aroclor 1016	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*91*	*46-125*				
Client ID:	**Hoist-3-N**					
Laboratory ID:	03-145-02					
Aroclor 1016	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*87*	*46-125*				
Client ID:	**Hoist-3-E**					
Laboratory ID:	03-145-03					
Aroclor 1016	**ND**	0.055	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.055	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.055	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.055	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.055	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.055	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.055	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*94*	*46-125*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-6-N**					
Laboratory ID:	03-145-04					
Aroclor 1016	**ND**	0.064	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.064	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.064	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.064	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.064	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.064	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.064	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*79*	*46-125*				
Client ID:	**Hoist-6-W**					
Laboratory ID:	03-145-05					
Aroclor 1016	**ND**	0.068	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.068	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.068	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.068	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.068	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.068	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.068	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*79*	*46-125*				
Client ID:	**Hoist-1-S**					
Laboratory ID:	03-145-06					
Aroclor 1016	**ND**	0.054	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.054	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.054	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.054	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.054	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.054	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.054	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*95*	*46-125*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-1-E**					
Laboratory ID:	03-145-07					
Aroclor 1016	**ND**	0.063	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.063	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.063	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.063	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.063	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.063	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.063	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*87*	*46-125*				
Client ID:	**Hoist-1-W**					
Laboratory ID:	03-145-08					
Aroclor 1016	**ND**	0.062	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.062	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.062	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.062	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.062	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.062	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.062	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*86*	*46-125*				
Client ID:	**UST-A-15.0**					
Laboratory ID:	03-145-09					
Aroclor 1016	**ND**	0.070	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.070	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.070	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.070	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.070	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.070	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.070	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*77*	*46-125*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.050	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.050	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.050	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.050	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.050	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.050	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*98*	*46-125*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-145-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.426**	**0.380**	0.500	0.500	ND	**85**	**76**	43-125	11	15	
Surrogate:											
DCB						*95*	*96*	*46-125*			

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-3-W**					
Laboratory ID:	03-145-01					
Arsenic	**ND**	12	EPA 6010D	3-15-21	3-15-21	
Barium	**120**	3.1	EPA 6010D	3-15-21	3-15-21	
Cadmium	**ND**	0.61	EPA 6010D	3-15-21	3-15-21	
Chromium	**37**	0.61	EPA 6010D	3-15-21	3-15-21	
Lead	**72**	6.1	EPA 6010D	3-15-21	3-15-21	
Mercury	**ND**	0.31	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	12	EPA 6010D	3-15-21	3-15-21	
Silver	**ND**	1.2	EPA 6010D	3-15-21	3-15-21	
Client ID:	**Hoist-3-N**					
Laboratory ID:	03-145-02					
Arsenic	**ND**	12	EPA 6010D	3-15-21	3-15-21	
Barium	**65**	3.0	EPA 6010D	3-15-21	3-15-21	
Cadmium	**ND**	0.61	EPA 6010D	3-15-21	3-15-21	
Chromium	**29**	0.61	EPA 6010D	3-15-21	3-15-21	
Lead	**59**	6.1	EPA 6010D	3-15-21	3-15-21	
Mercury	**0.53**	0.30	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	12	EPA 6010D	3-15-21	3-15-21	
Silver	**ND**	1.2	EPA 6010D	3-15-21	3-15-21	
Client ID:	**Hoist-3-E**					
Laboratory ID:	03-145-03					
Arsenic	**ND**	11	EPA 6010D	3-15-21	3-15-21	
Barium	**21**	2.7	EPA 6010D	3-15-21	3-15-21	
Cadmium	**ND**	0.55	EPA 6010D	3-15-21	3-15-21	
Chromium	**19**	0.55	EPA 6010D	3-15-21	3-15-21	
Lead	**ND**	5.5	EPA 6010D	3-15-21	3-15-21	
Mercury	**ND**	0.27	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	11	EPA 6010D	3-15-21	3-15-21	
Silver	**ND**	1.1	EPA 6010D	3-15-21	3-15-21	

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-6-N**					
Laboratory ID:	03-145-04					
Arsenic	**ND**	13	EPA 6010D	3-15-21	3-15-21	
Barium	**150**	3.2	EPA 6010D	3-15-21	3-15-21	
Cadmium	**ND**	0.64	EPA 6010D	3-15-21	3-15-21	
Chromium	**39**	0.64	EPA 6010D	3-15-21	3-15-21	
Lead	**82**	6.4	EPA 6010D	3-15-21	3-15-21	
Mercury	**ND**	0.32	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	13	EPA 6010D	3-15-21	3-15-21	
Silver	**ND**	1.3	EPA 6010D	3-15-21	3-15-21	
Client ID:	**Hoist-6-W**					
Laboratory ID:	03-145-05					
Arsenic	**ND**	14	EPA 6010D	3-15-21	3-15-21	
Barium	**200**	3.4	EPA 6010D	3-15-21	3-15-21	
Cadmium	**ND**	0.68	EPA 6010D	3-15-21	3-15-21	
Chromium	**46**	0.68	EPA 6010D	3-15-21	3-15-21	
Lead	**71**	6.8	EPA 6010D	3-15-21	3-15-21	
Mercury	**ND**	0.34	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	14	EPA 6010D	3-15-21	3-15-21	
Silver	**ND**	1.4	EPA 6010D	3-15-21	3-15-21	
Client ID:	**Hoist-1-S**					
Laboratory ID:	03-145-06					
Arsenic	**ND**	11	EPA 6010D	3-15-21	3-15-21	
Barium	**130**	2.7	EPA 6010D	3-15-21	3-15-21	
Cadmium	**ND**	0.54	EPA 6010D	3-15-21	3-15-21	
Chromium	**31**	0.54	EPA 6010D	3-15-21	3-15-21	
Lead	**92**	5.4	EPA 6010D	3-15-21	3-15-21	
Mercury	**ND**	0.27	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	11	EPA 6010D	3-15-21	3-15-21	
Silver	**ND**	1.1	EPA 6010D	3-15-21	3-15-21	

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-1-E**					
Laboratory ID:	03-145-07					
Arsenic	**ND**	13	EPA 6010D	3-15-21	3-15-21	
Barium	**140**	3.1	EPA 6010D	3-15-21	3-15-21	
Cadmium	**ND**	0.63	EPA 6010D	3-15-21	3-15-21	
Chromium	**36**	0.63	EPA 6010D	3-15-21	3-15-21	
Lead	**68**	6.3	EPA 6010D	3-15-21	3-15-21	
Mercury	**ND**	0.31	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	13	EPA 6010D	3-15-21	3-15-21	
Silver	**ND**	1.3	EPA 6010D	3-15-21	3-15-21	
Client ID:	**Hoist-1-W**					
Laboratory ID:	03-145-08					
Arsenic	**ND**	12	EPA 6010D	3-15-21	3-15-21	
Barium	**200**	3.1	EPA 6010D	3-15-21	3-15-21	
Cadmium	**ND**	0.62	EPA 6010D	3-15-21	3-15-21	
Chromium	**35**	0.62	EPA 6010D	3-15-21	3-15-21	
Lead	**82**	6.2	EPA 6010D	3-15-21	3-15-21	
Mercury	**ND**	0.31	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	12	EPA 6010D	3-15-21	3-15-21	
Silver	**ND**	1.2	EPA 6010D	3-15-21	3-15-21	
Client ID:	**UST-A-15.0**					
Laboratory ID:	03-145-09					
Arsenic	**ND**	14	EPA 6010D	3-15-21	3-15-21	
Barium	**540**	3.5	EPA 6010D	3-15-21	3-15-21	
Cadmium	**0.83**	0.70	EPA 6010D	3-15-21	3-15-21	
Chromium	**27**	0.70	EPA 6010D	3-15-21	3-15-21	
Lead	**350**	7.0	EPA 6010D	3-15-21	3-15-21	
Mercury	**2.7**	1.8	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	14	EPA 6010D	3-15-21	3-15-21	
Silver	**ND**	1.4	EPA 6010D	3-15-21	3-15-21	

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315SM1					
Arsenic	**ND**	10	EPA 6010D	3-15-21	3-15-21	
Barium	**ND**	2.5	EPA 6010D	3-15-21	3-15-21	
Cadmium	**ND**	0.50	EPA 6010D	3-15-21	3-15-21	
Chromium	**ND**	0.50	EPA 6010D	3-15-21	3-15-21	
Lead	**ND**	5.0	EPA 6010D	3-15-21	3-15-21	
Selenium	**ND**	10	EPA 6010D	3-15-21	3-15-21	
Silver	**ND**	1.0	EPA 6010D	3-15-21	3-15-21	
Laboratory ID:	MB0316S1					
Mercury	**ND**	0.25	EPA 7471B	3-16-21	3-16-21	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-145-08									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**162**	**104**	NA	NA		NA	NA	43	20	K
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**28.3**	**28.8**	NA	NA		NA	NA	2	20	
Lead	**66.0**	**62.1**	NA	NA		NA	NA	6	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-145-01									
Mercury	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-145-08									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**84.2**	**86.3**	100	100	ND	**84**	**86**	75-125	2	20	
Barium	**188**	**218**	100	100	162	**26**	**56**	75-125	15	20	V
Cadmium	**42.2**	**42.3**	50.0	50.0	ND	**84**	**85**	75-125	0	20	
Chromium	**114**	**115**	100	100	28.3	**86**	**87**	75-125	1	20	
Lead	**254**	**258**	250	250	66.0	**75**	**77**	75-125	1	20	
Selenium	**81.6**	**83.2**	100	100	ND	**82**	**83**	75-125	2	20	
Silver	**21.4**	**21.5**	25.0	25.0	ND	**86**	**86**	75-125	0	20	
Laboratory ID:	03-145-01									
Mercury	**0.578**	**0.626**	0.500	0.500	0.121	**91**	**101**	80-120	8	20	

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-3-W**					
Laboratory ID:	03-145-01					
Benzo[a]anthracene	**3.6**	0.16	EPA 8270E/SIM	3-15-21	3-15-21	
Chrysene	**3.0**	0.16	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[b]fluoranthene	**3.8**	0.16	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo(j,k)fluoranthene	**1.2**	0.16	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[a]pyrene	**3.3**	0.16	EPA 8270E/SIM	3-15-21	3-15-21	
Indeno(1,2,3-c,d)pyrene	**1.9**	0.16	EPA 8270E/SIM	3-15-21	3-15-21	
Dibenz[a,h]anthracene	**0.34**	0.16	EPA 8270E/SIM	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*74*	*46 - 113*				
Pyrene-d10	*77*	*45 - 114*				
Terphenyl-d14	*79*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-3-N**					
Laboratory ID:	03-145-02					
Benzo[a]anthracene	**0.015**	0.0081	EPA 8270E/SIM	3-15-21	3-15-21	
Chrysene	**0.019**	0.0081	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[b]fluoranthene	**0.021**	0.0081	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo(j,k)fluoranthene	**ND**	0.0081	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[a]pyrene	**0.017**	0.0081	EPA 8270E/SIM	3-15-21	3-15-21	
Indeno(1,2,3-c,d)pyrene	**0.015**	0.0081	EPA 8270E/SIM	3-15-21	3-15-21	
Dibenz[a,h]anthracene	**ND**	0.0081	EPA 8270E/SIM	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*80*	*46 - 113*				
Pyrene-d10	*98*	*45 - 114*				
Terphenyl-d14	*94*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-3-E**					
Laboratory ID:	03-145-03					
Benzo[a]anthracene	**ND**	0.0073	EPA 8270E/SIM	3-15-21	3-15-21	
Chrysene	**ND**	0.0073	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[b]fluoranthene	**ND**	0.0073	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo(j,k)fluoranthene	**ND**	0.0073	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[a]pyrene	**ND**	0.0073	EPA 8270E/SIM	3-15-21	3-15-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0073	EPA 8270E/SIM	3-15-21	3-15-21	
Dibenz[a,h]anthracene	**ND**	0.0073	EPA 8270E/SIM	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*84*	*46 - 113*				
Pyrene-d10	*93*	*45 - 114*				
Terphenyl-d14	*103*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-6-N**					
Laboratory ID:	03-145-04					
Benzo[a]anthracene	**0.0090**	0.0086	EPA 8270E/SIM	3-15-21	3-15-21	
Chrysene	**0.010**	0.0086	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[b]fluoranthene	**0.014**	0.0086	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo(j,k)fluoranthene	**ND**	0.0086	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[a]pyrene	**0.0096**	0.0086	EPA 8270E/SIM	3-15-21	3-15-21	
Indeno(1,2,3-c,d)pyrene	**0.0092**	0.0086	EPA 8270E/SIM	3-15-21	3-15-21	
Dibenz[a,h]anthracene	**ND**	0.0086	EPA 8270E/SIM	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*65*	*46 - 113*				
Pyrene-d10	*85*	*45 - 114*				
Terphenyl-d14	*85*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-6-W**					
Laboratory ID:	03-145-05					
Benzo[a]anthracene	**ND**	0.0091	EPA 8270E/SIM	3-15-21	3-15-21	
Chrysene	**ND**	0.0091	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[b]fluoranthene	**ND**	0.0091	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo(j,k)fluoranthene	**ND**	0.0091	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[a]pyrene	**ND**	0.0091	EPA 8270E/SIM	3-15-21	3-15-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0091	EPA 8270E/SIM	3-15-21	3-15-21	
Dibenz[a,h]anthracene	**ND**	0.0091	EPA 8270E/SIM	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*80*	*46 - 113*				
Pyrene-d10	*95*	*45 - 114*				
Terphenyl-d14	*102*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-1-S**					
Laboratory ID:	03-145-06					
Benzo[a]anthracene	**0.0093**	0.0072	EPA 8270E/SIM	3-15-21	3-15-21	
Chrysene	**0.012**	0.0072	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[b]fluoranthene	**0.012**	0.0072	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo(j,k)fluoranthene	**ND**	0.0072	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[a]pyrene	**0.0080**	0.0072	EPA 8270E/SIM	3-15-21	3-15-21	
Indeno(1,2,3-c,d)pyrene	**0.011**	0.0072	EPA 8270E/SIM	3-15-21	3-15-21	
Dibenz[a,h]anthracene	**ND**	0.0072	EPA 8270E/SIM	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*71*	*46 - 113*				
Pyrene-d10	*100*	*45 - 114*				
Terphenyl-d14	*72*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-1-E**					
Laboratory ID:	03-145-07					
Benzo[a]anthracene	**0.013**	0.0084	EPA 8270E/SIM	3-15-21	3-15-21	
Chrysene	**0.019**	0.0084	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[b]fluoranthene	**0.020**	0.0084	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo(j,k)fluoranthene	**ND**	0.0084	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[a]pyrene	**0.016**	0.0084	EPA 8270E/SIM	3-15-21	3-15-21	
Indeno(1,2,3-c,d)pyrene	**0.011**	0.0084	EPA 8270E/SIM	3-15-21	3-15-21	
Dibenz[a,h]anthracene	**ND**	0.0084	EPA 8270E/SIM	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*65*	*46 - 113*				
Pyrene-d10	*86*	*45 - 114*				
Terphenyl-d14	*80*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-1-W**					
Laboratory ID:	03-145-08					
Benzo[a]anthracene	**ND**	0.0082	EPA 8270E/SIM	3-15-21	3-15-21	
Chrysene	**0.0088**	0.0082	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[b]fluoranthene	**0.0086**	0.0082	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo(j,k)fluoranthene	**ND**	0.0082	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[a]pyrene	**ND**	0.0082	EPA 8270E/SIM	3-15-21	3-15-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0082	EPA 8270E/SIM	3-15-21	3-15-21	
Dibenz[a,h]anthracene	**ND**	0.0082	EPA 8270E/SIM	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*75*	*46 - 113*				
Pyrene-d10	*87*	*45 - 114*				
Terphenyl-d14	*89*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-15.0**					
Laboratory ID:	03-145-09					
Benzo[a]anthracene	**0.96**	0.094	EPA 8270E/SIM	3-15-21	3-15-21	
Chrysene	**0.58**	0.094	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[b]fluoranthene	**0.68**	0.094	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo(j,k)fluoranthene	**0.24**	0.094	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[a]pyrene	**0.62**	0.094	EPA 8270E/SIM	3-15-21	3-15-21	
Indeno(1,2,3-c,d)pyrene	**0.38**	0.094	EPA 8270E/SIM	3-15-21	3-15-21	
Dibenz[a,h]anthracene	**ND**	0.094	EPA 8270E/SIM	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*82*	*46 - 113*				
Pyrene-d10	*94*	*45 - 114*				
Terphenyl-d14	*84*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270E/SIM	3-15-21	3-15-21	
Chrysene	**ND**	0.0067	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270E/SIM	3-15-21	3-15-21	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270E/SIM	3-15-21	3-15-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270E/SIM	3-15-21	3-15-21	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270E/SIM	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*92*	*46 - 113*				
Pyrene-d10	*99*	*45 - 114*				
Terphenyl-d14	*104*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0315S1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	**0.0816**	**0.0791**	0.0833	0.0833	98	95	72 - 129	3	15	
Chrysene	**0.0832**	**0.0829**	0.0833	0.0833	100	100	66 - 123	0	15	
Benzo[b]fluoranthene	**0.0857**	**0.0881**	0.0833	0.0833	103	106	68 - 128	3	15	
Benzo(j,k)fluoranthene	**0.0764**	**0.0727**	0.0833	0.0833	92	87	63 - 128	5	16	
Benzo[a]pyrene	**0.0795**	**0.0784**	0.0833	0.0833	95	94	66 - 130	1	15	
Indeno(1,2,3-c,d)pyrene	**0.0749**	**0.0734**	0.0833	0.0833	90	88	63 - 135	2	15	
Dibenz[a,h]anthracene	**0.0796**	**0.0787**	0.0833	0.0833	96	94	65 - 130	1	15	
Surrogate:										
2-Fluorobiphenyl					*90*	*95*	*46 - 113*			
Pyrene-d10					*100*	*97*	*45 - 114*			
Terphenyl-d14					*104*	*103*	*49 - 121*			

Date of Report: March 16, 2021
Samples Submitted: March 12, 2021
Laboratory Reference: 2103-145
Project: 397-035

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
Hoist-3-W	03-145-01	**18**	3-15-21
Hoist-3-N	03-145-02	**18**	3-15-21
Hoist-3-E	03-145-03	**9**	3-15-21
Hoist-6-N	03-145-04	**22**	3-15-21
Hoist-6-W	03-145-05	**27**	3-15-21
Hoist-1-S	03-145-06	**8**	3-15-21
Hoist-1-E	03-145-07	**20**	3-15-21
Hoist-1-W	03-145-08	**19**	3-15-21
UST-A-15.0	03-145-09	**29**	3-15-21

OnSite Environmental Inc.

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.

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.

Z -

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

Chain of Custody

Page 1 of 1

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

Company: Farallon
Project Number: 397-035
Project Name: Block 79
Project Manager: Eric Buer
Sampled by: Courtney van Stolk

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

Laboratory Number: 03-145

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX 8260D	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	cPAHs				% Moisture
1	Hoist-3-W	3-12	0803	Soil	6		X		X		X				X				X								X
2	Hoist-3-N		1158																								X
3	Hoist-3-E		1200																								X
4	Hoist-6-N		1308																								X
5	Hoist-6-W		1315																								X
6	Hoist-1-S		1319																								X
7	Hoist-1-E		1328																								X
8	Hoist-1-W		1332																								X
9	UST-A-15.0		1447			X																					X

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	Courtney van Stolk	Farallon	3-12-21	1502	
Received	#17	Steady Alpha	3-12-21	15:03	
Relinquished	#17	Steady Alpha	3-12-21	4:30pm	
Received	Nicole Richi	OSE	3/12/21	1630	
Relinquished					
Received					Data Package: Standard ☐ Level III ☐ Level IV ☐
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

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

March 16, 2021

Eric Buer
Farallon Consulting
1809 7th Avenue, Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 397-035
Laboratory Reference No. 2103-151

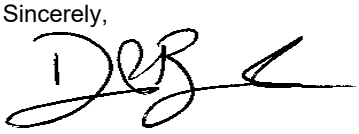
Dear Eric:

Enclosed are the analytical results and associated quality control data for samples submitted on March 15, 2021.

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

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

Sincerely,



David Baumeister
Project Manager

Enclosures

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

Case Narrative

Samples were collected on March 15, 2021 and received by the laboratory on March 15, 2021. 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.

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

NWTPH Dx Analysis

The duplicate extracts for sample Hoist-S6-8.0 were of distinctly different colors and analysis resulted in a high RPD. The sample was re-extracted and analyzed a third time, the highest values are the ones reported. It was determined that the sample is inhomogeneous.

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: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-E-15.0**					
Laboratory ID:	03-151-01					
Gasoline	**ND**	24	NWTPH-Gx	3-15-21	3-15-21	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*96*	*58-129*				
Client ID:	**UST-A-N-15.0**					
Laboratory ID:	03-151-02					
Gasoline	**ND**	5.9	NWTPH-Gx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*58-129*				
Client ID:	**UST-A-W-15.0**					
Laboratory ID:	03-151-03					
Gasoline	**ND**	6.4	NWTPH-Gx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*103*	*58-129*				
Client ID:	**UST-A-S-15.0**					
Laboratory ID:	03-151-04					
Gasoline	**ND**	5.7	NWTPH-Gx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*103*	*58-129*				
Client ID:	**Hoist-S4-8.0**					
Laboratory ID:	03-151-05					
Gasoline	**ND**	5.8	NWTPH-Gx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*97*	*58-129*				
Client ID:	**Hoist-S6-8.0**					
Laboratory ID:	03-151-06					
Gasoline	**ND**	6.3	NWTPH-Gx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*98*	*58-129*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

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:	MB0315S2					
Gasoline	**ND**	5.0	NWTPH-Gx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*58-129*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-151-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*96*	*95*	*58-129*			

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

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:	**UST-A-E-15.0**					
Laboratory ID:	03-151-01					
Diesel Range Organics	**1300**	320	NWTPH-Dx	3-15-21	3-16-21	N
Lube Oil	**12000**	640	NWTPH-Dx	3-15-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	---	*50-150*				S
Client ID:	**UST-A-N-15.0**					
Laboratory ID:	03-151-02					
Diesel Range Organics	**3200**	29	NWTPH-Dx	3-15-21	3-15-21	
Lube Oil Range Organics	**1000**	59	NWTPH-Dx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				
Client ID:	**UST-A-W-15.0**					
Laboratory ID:	03-151-03					
Diesel Range Organics	**ND**	30	NWTPH-Dx	3-15-21	3-16-21	
Lube Oil Range Organics	**ND**	61	NWTPH-Dx	3-15-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				
Client ID:	**UST-A-S-15.0**					
Laboratory ID:	03-151-04					
Diesel Range Organics	**680**	30	NWTPH-Dx	3-15-21	3-15-21	N
Lube Oil	**2200**	60	NWTPH-Dx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				
Client ID:	**Hoist-S4-8.0**					
Laboratory ID:	03-151-05					
Diesel Range Organics	**110**	30	NWTPH-Dx	3-15-21	3-15-21	N
Lube Oil	**340**	59	NWTPH-Dx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				
Client ID:	**Hoist-S6-8.0**					
Laboratory ID:	03-151-06					
Diesel Range Organics	**7700**	760	NWTPH-Dx	3-15-21	3-16-21	
Lube Oil Range Organics	**17000**	1500	NWTPH-Dx	3-15-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	---	*50-150*				S

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

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:	MB0315S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	3-15-21	3-15-21	
Lube Oil Range Organics	**ND**	100	NWTPH-Dx	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*101*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-151-06									
	ORIG	DUP								
Diesel Range Organics	**6340**	**ND**	NA	NA		NA	NA	NA	NA	
Lube Oil Range Organics	**13600**	**90.1**	NA	NA		NA	NA	197	NA	
Surrogate:										
o-Terphenyl						--- *70*	*50-150*			S

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-E-15.0**					
Laboratory ID:	03-151-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Chloromethane	ND	0.0054	EPA 8260D	3-16-21	3-16-21	
Vinyl Chloride	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Bromomethane	ND	0.0054	EPA 8260D	3-16-21	3-16-21	
Chloroethane	ND	0.0054	EPA 8260D	3-16-21	3-16-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Iodomethane	ND	0.0054	EPA 8260D	3-16-21	3-16-21	
Methylene Chloride	ND	0.0071	EPA 8260D	3-16-21	3-16-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Bromochloromethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Chloroform	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Benzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Trichloroethene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Dibromomethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260D	3-16-21	3-16-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Toluene	ND	0.0054	EPA 8260D	3-16-21	3-16-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-E-15.0**					
Laboratory ID:	03-151-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Tetrachloroethene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Chlorobenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Ethylbenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
m,p-Xylene	ND	0.0021	EPA 8260D	3-16-21	3-16-21	
o-Xylene	0.0012	0.0011	EPA 8260D	3-16-21	3-16-21	
Bromoform	ND	0.0054	EPA 8260D	3-16-21	3-16-21	
Bromobenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260D	3-16-21	3-16-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Hexachlorobutadiene	ND	0.0054	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*74-131*				
Toluene-d8	*93*	*78-128*				
4-Bromofluorobenzene	*91*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-N-15.0**					
Laboratory ID:	03-151-02					
Dichlorodifluoromethane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Chloromethane	ND	0.0043	EPA 8260D	3-16-21	3-16-21	
Vinyl Chloride	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Bromomethane	ND	0.0043	EPA 8260D	3-16-21	3-16-21	
Chloroethane	ND	0.0043	EPA 8260D	3-16-21	3-16-21	
Trichlorofluoromethane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Iodomethane	ND	0.0043	EPA 8260D	3-16-21	3-16-21	
Methylene Chloride	ND	0.0056	EPA 8260D	3-16-21	3-16-21	
(trans) 1,2-Dichloroethene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
2,2-Dichloropropane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
(cis) 1,2-Dichloroethene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Bromochloromethane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Chloroform	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
1,1,1-Trichloroethane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Carbon Tetrachloride	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloropropene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Benzene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloroethane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Trichloroethene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloropropane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Dibromomethane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Bromodichloromethane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260D	3-16-21	3-16-21	
(cis) 1,3-Dichloropropene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Toluene	ND	0.0043	EPA 8260D	3-16-21	3-16-21	
(trans) 1,3-Dichloropropene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-N-15.0**					
Laboratory ID:	03-151-02					
1,1,2-Trichloroethane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Tetrachloroethene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
1,3-Dichloropropane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Dibromochloromethane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromoethane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Chlorobenzene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Ethylbenzene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
m,p-Xylene	ND	0.0017	EPA 8260D	3-16-21	3-16-21	
o-Xylene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Bromoform	ND	0.0043	EPA 8260D	3-16-21	3-16-21	
Bromobenzene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
1,1,2,2-Tetrachloroethane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichloropropane	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
2-Chlorotoluene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
4-Chlorotoluene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
1,3-Dichlorobenzene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
1,4-Dichlorobenzene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
1,2-Dichlorobenzene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260D	3-16-21	3-16-21	
1,2,4-Trichlorobenzene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Hexachlorobutadiene	ND	0.0043	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichlorobenzene	ND	0.00086	EPA 8260D	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*74-131*				
Toluene-d8	*98*	*78-128*				
4-Bromofluorobenzene	*103*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-W-15.0**					
Laboratory ID:	03-151-03					
Dichlorodifluoromethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Chloromethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Vinyl Chloride	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Bromomethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Chloroethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Trichlorofluoromethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Iodomethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Methylene Chloride	ND	0.0065	EPA 8260D	3-16-21	3-16-21	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
2,2-Dichloropropane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Bromochloromethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Chloroform	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Carbon Tetrachloride	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloropropene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Benzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloroethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Trichloroethene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloropropane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Dibromomethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Bromodichloromethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Toluene	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-W-15.0**					
Laboratory ID:	03-151-03					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Tetrachloroethene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,3-Dichloropropane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Dibromochloromethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromoethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Chlorobenzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Ethylbenzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
m,p-Xylene	ND	0.0020	EPA 8260D	3-16-21	3-16-21	
o-Xylene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Bromoform	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Bromobenzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
2-Chlorotoluene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
4-Chlorotoluene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*74-131*				
Toluene-d8	*98*	*78-128*				
4-Bromofluorobenzene	*99*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-S-15.0**					
Laboratory ID:	03-151-04					
Dichlorodifluoromethane	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Chloromethane	ND	0.0044	EPA 8260D	3-16-21	3-16-21	
Vinyl Chloride	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Bromomethane	ND	0.0044	EPA 8260D	3-16-21	3-16-21	
Chloroethane	ND	0.0044	EPA 8260D	3-16-21	3-16-21	
Trichlorofluoromethane	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethene	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Iodomethane	ND	0.0044	EPA 8260D	3-16-21	3-16-21	
Methylene Chloride	ND	0.0058	EPA 8260D	3-16-21	3-16-21	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethane	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
2,2-Dichloropropane	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Bromochloromethane	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Chloroform	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Carbon Tetrachloride	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloropropene	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Benzene	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloroethane	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Trichloroethene	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloropropane	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Dibromomethane	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Bromodichloromethane	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260D	3-16-21	3-16-21	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Toluene	ND	0.0044	EPA 8260D	3-16-21	3-16-21	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260D	3-16-21	3-16-21	

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-S-15.0**					
Laboratory ID:	03-151-04					
1,1,2-Trichloroethane	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Tetrachloroethene	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
1,3-Dichloropropane	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Dibromochloromethane	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromoethane	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Chlorobenzene	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Ethylbenzene	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
m,p-Xylene	ND	0.0018	EPA 8260D	3-16-21	3-16-21	
o-Xylene	ND	0.00088	EPA 8260D	3-16-21	3-16-21	
Bromoform	ND	0.0044	EPA 8260D	3-16-21	3-16-21	
Bromobenzene	ND	0.057	EPA 8260D	3-16-21	3-16-21	
1,1,2,2-Tetrachloroethane	ND	0.057	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichloropropane	ND	0.057	EPA 8260D	3-16-21	3-16-21	
2-Chlorotoluene	ND	0.057	EPA 8260D	3-16-21	3-16-21	
4-Chlorotoluene	ND	0.057	EPA 8260D	3-16-21	3-16-21	
1,3-Dichlorobenzene	ND	0.057	EPA 8260D	3-16-21	3-16-21	
1,4-Dichlorobenzene	ND	0.057	EPA 8260D	3-16-21	3-16-21	
1,2-Dichlorobenzene	ND	0.057	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromo-3-chloropropane	ND	0.29	EPA 8260D	3-16-21	3-16-21	
1,2,4-Trichlorobenzene	ND	0.057	EPA 8260D	3-16-21	3-16-21	
Hexachlorobutadiene	ND	0.29	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichlorobenzene	ND	0.057	EPA 8260D	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*74-131*				
Toluene-d8	*93*	*78-128*				
4-Bromofluorobenzene	*92*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-S4-8.0**					
Laboratory ID:	03-151-05					
Dichlorodifluoromethane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Chloromethane	ND	0.0048	EPA 8260D	3-16-21	3-16-21	
Vinyl Chloride	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Bromomethane	ND	0.0048	EPA 8260D	3-16-21	3-16-21	
Chloroethane	ND	0.0048	EPA 8260D	3-16-21	3-16-21	
Trichlorofluoromethane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Iodomethane	ND	0.0048	EPA 8260D	3-16-21	3-16-21	
Methylene Chloride	ND	0.0063	EPA 8260D	3-16-21	3-16-21	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
2,2-Dichloropropane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
(cis) 1,2-Dichloroethene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Bromochloromethane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Chloroform	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Carbon Tetrachloride	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloropropene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Benzene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloroethane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Trichloroethene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloropropane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Dibromomethane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Bromodichloromethane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260D	3-16-21	3-16-21	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Toluene	ND	0.0048	EPA 8260D	3-16-21	3-16-21	
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-S4-8.0**					
Laboratory ID:	03-151-05					
1,1,2-Trichloroethane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Tetrachloroethene	0.0010	0.00096	EPA 8260D	3-16-21	3-16-21	
1,3-Dichloropropane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Dibromochloromethane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromoethane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Chlorobenzene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Ethylbenzene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
m,p-Xylene	ND	0.0019	EPA 8260D	3-16-21	3-16-21	
o-Xylene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Bromoform	ND	0.0048	EPA 8260D	3-16-21	3-16-21	
Bromobenzene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
1,1,2,2-Tetrachloroethane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
2-Chlorotoluene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
4-Chlorotoluene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260D	3-16-21	3-16-21	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Hexachlorobutadiene	ND	0.0048	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260D	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*74-131*				
Toluene-d8	*98*	*78-128*				
4-Bromofluorobenzene	*99*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-S6-8.0**					
Laboratory ID:	03-151-06					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Chloromethane	ND	0.0051	EPA 8260D	3-16-21	3-16-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromomethane	ND	0.0051	EPA 8260D	3-16-21	3-16-21	
Chloroethane	ND	0.0051	EPA 8260D	3-16-21	3-16-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Iodomethane	ND	0.0051	EPA 8260D	3-16-21	3-16-21	
Methylene Chloride	ND	0.0068	EPA 8260D	3-16-21	3-16-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromochloromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Chloroform	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Benzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Trichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Dibromomethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260D	3-16-21	3-16-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Toluene	ND	0.0051	EPA 8260D	3-16-21	3-16-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-S6-8.0**					
Laboratory ID:	03-151-06					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Tetrachloroethene	0.0021	0.0010	EPA 8260D	3-16-21	3-16-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Chlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Ethylbenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
m,p-Xylene	ND	0.0021	EPA 8260D	3-16-21	3-16-21	
o-Xylene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromoform	ND	0.0051	EPA 8260D	3-16-21	3-16-21	
Bromobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260D	3-16-21	3-16-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Hexachlorobutadiene	ND	0.0051	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*74-131*				
Toluene-d8	*95*	*78-128*				
4-Bromofluorobenzene	*98*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

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:	MB0316S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Chloromethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromomethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Chloroethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Iodomethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Methylene Chloride	ND	0.0066	EPA 8260D	3-16-21	3-16-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromochloromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Chloroform	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Benzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Trichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Dibromomethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Toluene	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Chlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Ethylbenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
m,p-Xylene	ND	0.0020	EPA 8260D	3-16-21	3-16-21	
o-Xylene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromoform	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Bromobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*74-131*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0316S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0453**	**0.0446**	0.0500	0.0500	91	89	55-126	2	17	
Benzene	**0.0478**	**0.0482**	0.0500	0.0500	96	96	65-121	1	16	
Trichloroethene	**0.0524**	**0.0504**	0.0500	0.0500	105	101	74-126	4	16	
Toluene	**0.0483**	**0.0475**	0.0500	0.0500	97	95	71-121	2	16	
Chlorobenzene	**0.0496**	**0.0489**	0.0500	0.0500	99	98	72-123	1	16	
Surrogate:										
Dibromofluoromethane					*97*	*102*	*74-131*			
Toluene-d8					*98*	*98*	*78-128*			
4-Bromofluorobenzene					*107*	*105*	*71-130*			

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-E-15.0**					
Laboratory ID:	03-151-01					
Aroclor 1016	**ND**	0.064	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.064	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.064	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.064	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.064	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.064	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.064	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*82*	*46-125*				
Client ID:	**UST-A-N-15.0**					
Laboratory ID:	03-151-02					
Aroclor 1016	**ND**	0.059	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.059	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.059	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.059	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.059	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.059	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.059	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*86*	*46-125*				
Client ID:	**UST-A-W-15.0**					
Laboratory ID:	03-151-03					
Aroclor 1016	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*81*	*46-125*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-S-15.0**					
Laboratory ID:	03-151-04					
Aroclor 1016	**ND**	0.060	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.060	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.060	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.060	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.060	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.060	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.060	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*81*	*46-125*				
Client ID:	**Hoist-S4-8.0**					
Laboratory ID:	03-151-05					
Aroclor 1016	**ND**	0.059	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.059	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.059	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.059	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.059	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.059	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.059	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*85*	*46-125*				
Client ID:	**Hoist-S6-8.0**					
Laboratory ID:	03-151-06					
Aroclor 1016	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.061	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*76*	*46-125*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	3-15-21	3-15-21	
Aroclor 1221	**ND**	0.050	EPA 8082A	3-15-21	3-15-21	
Aroclor 1232	**ND**	0.050	EPA 8082A	3-15-21	3-15-21	
Aroclor 1242	**ND**	0.050	EPA 8082A	3-15-21	3-15-21	
Aroclor 1248	**ND**	0.050	EPA 8082A	3-15-21	3-15-21	
Aroclor 1254	**ND**	0.050	EPA 8082A	3-15-21	3-15-21	
Aroclor 1260	**ND**	0.050	EPA 8082A	3-15-21	3-15-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*98*	*46-125*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-145-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.426**	**0.380**	0.500	0.500	ND	**85**	**76**	43-125	11	15	
Surrogate:											
DCB						*95*	*96*	*46-125*			

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-E-15.0**					
Laboratory ID:	03-151-01					
Arsenic	**ND**	13	EPA 6010D	3-16-21	3-16-21	
Barium	**210**	3.2	EPA 6010D	3-16-21	3-16-21	
Cadmium	**ND**	0.64	EPA 6010D	3-16-21	3-16-21	
Chromium	**29**	0.64	EPA 6010D	3-16-21	3-16-21	
Lead	**51**	6.4	EPA 6010D	3-16-21	3-16-21	
Mercury	**0.87**	0.32	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	13	EPA 6010D	3-16-21	3-16-21	
Silver	**ND**	1.3	EPA 6010D	3-16-21	3-16-21	
Client ID:	**UST-A-N-15.0**					
Laboratory ID:	03-151-02					
Arsenic	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Barium	**88**	2.9	EPA 6010D	3-16-21	3-16-21	
Cadmium	**ND**	0.59	EPA 6010D	3-16-21	3-16-21	
Chromium	**25**	0.59	EPA 6010D	3-16-21	3-16-21	
Lead	**11**	5.9	EPA 6010D	3-16-21	3-16-21	
Mercury	**ND**	0.29	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Silver	**ND**	1.2	EPA 6010D	3-16-21	3-16-21	
Client ID:	**UST-A-W-15.0**					
Laboratory ID:	03-151-03					
Arsenic	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Barium	**67**	3.0	EPA 6010D	3-16-21	3-16-21	
Cadmium	**ND**	0.61	EPA 6010D	3-16-21	3-16-21	
Chromium	**30**	0.61	EPA 6010D	3-16-21	3-16-21	
Lead	**8.1**	6.1	EPA 6010D	3-16-21	3-16-21	
Mercury	**ND**	0.30	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Silver	**ND**	1.2	EPA 6010D	3-16-21	3-16-21	

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-S-15.0**					
Laboratory ID:	03-151-04					
Arsenic	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Barium	**120**	3.0	EPA 6010D	3-16-21	3-16-21	
Cadmium	**ND**	0.60	EPA 6010D	3-16-21	3-16-21	
Chromium	**29**	0.60	EPA 6010D	3-16-21	3-16-21	
Lead	**46**	6.0	EPA 6010D	3-16-21	3-16-21	
Mercury	**ND**	0.30	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Silver	**ND**	1.2	EPA 6010D	3-16-21	3-16-21	
Client ID:	**Hoist-S4-8.0**					
Laboratory ID:	03-151-05					
Arsenic	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Barium	**180**	3.0	EPA 6010D	3-16-21	3-16-21	
Cadmium	**ND**	0.59	EPA 6010D	3-16-21	3-16-21	
Chromium	**56**	0.59	EPA 6010D	3-16-21	3-16-21	
Lead	**200**	5.9	EPA 6010D	3-16-21	3-16-21	
Mercury	**0.69**	0.30	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Silver	**ND**	1.2	EPA 6010D	3-16-21	3-16-21	
Client ID:	**Hoist-S6-8.0**					
Laboratory ID:	03-151-06					
Arsenic	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Barium	**170**	3.1	EPA 6010D	3-16-21	3-16-21	
Cadmium	**ND**	0.61	EPA 6010D	3-16-21	3-16-21	
Chromium	**34**	0.61	EPA 6010D	3-16-21	3-16-21	
Lead	**84**	6.1	EPA 6010D	3-16-21	3-16-21	
Mercury	**0.41**	0.31	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Silver	**ND**	1.2	EPA 6010D	3-16-21	3-16-21	

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316SM1					
Arsenic	**ND**	10	EPA 6010D	3-16-21	3-16-21	
Barium	**ND**	2.5	EPA 6010D	3-16-21	3-16-21	
Cadmium	**ND**	0.50	EPA 6010D	3-16-21	3-16-21	
Chromium	**ND**	0.50	EPA 6010D	3-16-21	3-16-21	
Lead	**ND**	5.0	EPA 6010D	3-16-21	3-16-21	
Selenium	**ND**	10	EPA 6010D	3-16-21	3-16-21	
Silver	**ND**	1.0	EPA 6010D	3-16-21	3-16-21	
Laboratory ID:	MB0316S1					
Mercury	**ND**	0.25	EPA 7471B	3-16-21	3-16-21	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-113-03									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**30.7**	**32.4**	NA	NA		NA	NA	6	20	
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**15.6**	**15.8**	NA	NA		NA	NA	1	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-145-01									
Mercury	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-136-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**88.4**	**88.3**	100	100	ND	**88**	**88**	75-125	0	20
Barium	**120**	**120**	100	100	30.7	**89**	**89**	75-125	0	20
Cadmium	**43.3**	**43.6**	50.0	50.0	ND	**87**	**87**	75-125	1	20
Chromium	**104**	**103**	100	100	15.6	**88**	**87**	75-125	1	20
Lead	**218**	**222**	250	250	ND	**87**	**89**	75-125	2	20
Selenium	**88.3**	**88.3**	100	100	ND	**88**	**88**	75-125	0	20
Silver	**20.6**	**20.7**	25.0	25.0	ND	**82**	**83**	75-125	1	20
Laboratory ID:	03-145-01									
Mercury	**0.578**	**0.626**	0.500	0.500	0.121	**91**	**101**	80-120	8	20

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-E-15.0**					
Laboratory ID:	03-151-01					
Benzo[a]anthracene	**0.13**	0.043	EPA 8270E/SIM	3-15-21	3-16-21	
Chrysene	**0.15**	0.043	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo[b]fluoranthene	**0.078**	0.043	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo(j,k)fluoranthene	**ND**	0.043	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo[a]pyrene	**0.057**	0.043	EPA 8270E/SIM	3-15-21	3-16-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.043	EPA 8270E/SIM	3-15-21	3-16-21	
Dibenz[a,h]anthracene	**ND**	0.043	EPA 8270E/SIM	3-15-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*74*	*46 - 113*				
Pyrene-d10	*77*	*45 - 114*				
Terphenyl-d14	*74*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-N-15.0**					
Laboratory ID:	03-151-02					
Benzo[a]anthracene	**0.040**	0.0078	EPA 8270E/SIM	3-15-21	3-16-21	
Chrysene	**0.041**	0.0078	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo[b]fluoranthene	**0.036**	0.0078	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo(j,k)fluoranthene	**0.012**	0.0078	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo[a]pyrene	**0.024**	0.0078	EPA 8270E/SIM	3-15-21	3-16-21	
Indeno(1,2,3-c,d)pyrene	**0.015**	0.0078	EPA 8270E/SIM	3-15-21	3-16-21	
Dibenz[a,h]anthracene	**ND**	0.0078	EPA 8270E/SIM	3-15-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*63*	*46 - 113*				
Pyrene-d10	*82*	*45 - 114*				
Terphenyl-d14	*107*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-W-15.0**					
Laboratory ID:	03-151-03					
Benzo[a]anthracene	**ND**	0.0081	EPA 8270E/SIM	3-15-21	3-16-21	
Chrysene	**ND**	0.0081	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo[b]fluoranthene	**0.013**	0.0081	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo(j,k)fluoranthene	**ND**	0.0081	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo[a]pyrene	**ND**	0.0081	EPA 8270E/SIM	3-15-21	3-16-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0081	EPA 8270E/SIM	3-15-21	3-16-21	
Dibenz[a,h]anthracene	**ND**	0.0081	EPA 8270E/SIM	3-15-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*88*	*46 - 113*				
Pyrene-d10	*83*	*45 - 114*				
Terphenyl-d14	*92*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-A-S-15.0**					
Laboratory ID:	03-151-04					
Benzo[a]anthracene	**0.097**	0.0080	EPA 8270E/SIM	3-15-21	3-16-21	
Chrysene	**0.040**	0.0080	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo[b]fluoranthene	**0.059**	0.0080	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo(j,k)fluoranthene	**ND**	0.0080	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo[a]pyrene	**0.043**	0.0080	EPA 8270E/SIM	3-15-21	3-16-21	
Indeno(1,2,3-c,d)pyrene	**0.020**	0.0080	EPA 8270E/SIM	3-15-21	3-16-21	
Dibenz[a,h]anthracene	**ND**	0.0080	EPA 8270E/SIM	3-15-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*88*	*46 - 113*				
Pyrene-d10	*100*	*45 - 114*				
Terphenyl-d14	*91*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-S4-8.0**					
Laboratory ID:	03-151-05					
Benzo[a]anthracene	**0.074**	0.0079	EPA 8270E/SIM	3-15-21	3-16-21	
Chrysene	**0.083**	0.0079	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo[b]fluoranthene	**0.094**	0.0079	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo(j,k)fluoranthene	**0.022**	0.0079	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo[a]pyrene	**0.085**	0.0079	EPA 8270E/SIM	3-15-21	3-16-21	
Indeno(1,2,3-c,d)pyrene	**0.054**	0.0079	EPA 8270E/SIM	3-15-21	3-16-21	
Dibenz[a,h]anthracene	**0.010**	0.0079	EPA 8270E/SIM	3-15-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*65*	*46 - 113*				
Pyrene-d10	*82*	*45 - 114*				
Terphenyl-d14	*87*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-S6-8.0**					
Laboratory ID:	03-151-06					
Benzo[a]anthracene	**0.039**	0.0081	EPA 8270E/SIM	3-15-21	3-16-21	
Chrysene	**0.042**	0.0081	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo[b]fluoranthene	**0.052**	0.0081	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo(j,k)fluoranthene	**0.013**	0.0081	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo[a]pyrene	**0.040**	0.0081	EPA 8270E/SIM	3-15-21	3-16-21	
Indeno(1,2,3-c,d)pyrene	**0.025**	0.0081	EPA 8270E/SIM	3-15-21	3-16-21	
Dibenz[a,h]anthracene	**ND**	0.0081	EPA 8270E/SIM	3-15-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*81*	*46 - 113*				
Pyrene-d10	*83*	*45 - 114*				
Terphenyl-d14	*85*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315S3					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270E/SIM	3-15-21	3-16-21	
Chrysene	**ND**	0.0067	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270E/SIM	3-15-21	3-16-21	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270E/SIM	3-15-21	3-16-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270E/SIM	3-15-21	3-16-21	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270E/SIM	3-15-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*101*	*46 - 113*				
Pyrene-d10	*99*	*45 - 114*				
Terphenyl-d14	*107*	*49 - 121*				

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0315S3									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	**0.0888**	**0.0797**	0.0833	0.0833	107	96	72 - 129	11	15	
Chrysene	**0.0830**	**0.0888**	0.0833	0.0833	100	107	66 - 123	7	15	
Benzo[b]fluoranthene	**0.0782**	**0.0881**	0.0833	0.0833	94	106	68 - 128	12	15	
Benzo(j,k)fluoranthene	**0.0891**	**0.0793**	0.0833	0.0833	107	95	63 - 128	12	16	
Benzo[a]pyrene	**0.0868**	**0.0820**	0.0833	0.0833	104	98	66 - 130	6	15	
Indeno(1,2,3-c,d)pyrene	**0.0818**	**0.0821**	0.0833	0.0833	98	99	63 - 135	0	15	
Dibenz[a,h]anthracene	**0.0847**	**0.0847**	0.0833	0.0833	102	102	65 - 130	0	15	
Surrogate:										
2-Fluorobiphenyl					*94*	*104*	*46 - 113*			
Pyrene-d10					*95*	*97*	*45 - 114*			
Terphenyl-d14					*111*	*106*	*49 - 121*			

Date of Report: March 16, 2021
Samples Submitted: March 15, 2021
Laboratory Reference: 2103-151
Project: 397-035

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
UST-A-E-15.0	03-151-01	**22**	3-15-21
UST-A-N-15.0	03-151-02	**15**	3-15-21
UST-A-W-15.0	03-151-03	**18**	3-15-21
UST-A-S-15.0	03-151-04	**17**	3-15-21
Hoist-S4-8.0	03-151-05	**16**	3-15-21
Hoist-S6-8.0	03-151-06	**18**	3-15-21

OnSite Environmental Inc.

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.

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.

Z -

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

Chain of Custody

Page 1 of 1

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

Company: Farallon
Project Number: 397-035
Project Name: Block 79
Project Manager: Eric Buer
Sampled by: Courtney van Stolk

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

Laboratory Number: 03-151

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX 8260	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	cPAHs 8270				% Moisture
1	UST-A-E-15.0	3-15-21	1005	soil	6		X		X		X				X				X				X				X
2	UST-A-N-15.0		1008				X		X		X				X				X				X				X
3	UST-A-W-15.0		1012				X		X		X				X				X				X				X
4	UST-A-S-15.0		1015				X		X		X				X				X				X				X
5	Hoist-S4-8.0		1045				X		X		X				X				X				X				X
6	Hoist-S6-8.0		1055				X		X		X				X				X				X				X

	Signature	Company	Date	Time
Relinquished	Courtney van Stolk	Farallon	3-15-21	1326
Received	#17	[illegible]	3-15-21	1827
Relinquished	#17	[illegible]	3-15-21	02:29 pm
Received	[signature]	OSE	3/15/21	1409
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

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

March 19, 2021

Eric Buer
Farallon Consulting
1809 7th Avenue, Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 397-035
Laboratory Reference No. 2103-165

Dear Eric:

Enclosed are the analytical results and associated quality control data for samples submitted on March 16, 2021.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 19, 2021
Samples Submitted: March 16, 2021
Laboratory Reference: 2103-165
Project: 397-035

Case Narrative

Samples were collected on March 15, 2021 and received by the laboratory on March 16, 2021. 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.

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.

PAHs EPA 8270E/SIM Analysis

The method blank had one surrogate recovery outside of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

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: March 19, 2021
Samples Submitted: March 16, 2021
Laboratory Reference: 2103-165
Project: 397-035

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-SP1**					
Laboratory ID:	03-165-01					
Gasoline	**ND**	6.7	NWTPH-Gx	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*96*	*58-129*				
Client ID:	**Hoist-SP2**					
Laboratory ID:	03-165-02					
Gasoline	**ND**	6.4	NWTPH-Gx	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*58-129*				
Client ID:	**Hoist-SP3**					
Laboratory ID:	03-165-03					
Gasoline	**ND**	6.8	NWTPH-Gx	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*99*	*58-129*				

Date of Report: March 19, 2021
Samples Submitted: March 16, 2021
Laboratory Reference: 2103-165
Project: 397-035

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:	MB0316S1					
Gasoline	**ND**	5.0	NWTPH-Gx	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*58-129*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-162-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*79*	*78*	*58-129*			

Date of Report: March 19, 2021
Samples Submitted: March 16, 2021
Laboratory Reference: 2103-165
Project: 397-035

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:	**Hoist-SP1**					
Laboratory ID:	03-165-01					
Diesel Range Organics	**ND**	29	NWTPH-Dx	3-17-21	3-17-21	
Lube Oil	**180**	58	NWTPH-Dx	3-17-21	3-17-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*101*	*50-150*				
Client ID:	**Hoist-SP2**					
Laboratory ID:	03-165-02					
Diesel Range Organics	**40**	31	NWTPH-Dx	3-17-21	3-17-21	N
Lube Oil	**230**	61	NWTPH-Dx	3-17-21	3-17-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				
Client ID:	**Hoist-SP3**					
Laboratory ID:	03-165-03					
Diesel Range Organics	**54**	30	NWTPH-Dx	3-17-21	3-17-21	N
Lube Oil	**290**	60	NWTPH-Dx	3-17-21	3-17-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				

Date of Report: March 19, 2021
Samples Submitted: March 16, 2021
Laboratory Reference: 2103-165
Project: 397-035

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:	MB0317S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	3-17-21	3-17-21	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	3-17-21	3-17-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*90*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	SB0317S1									
	ORIG	DUP								
Diesel Fuel #2	**91.1**	**79.8**	NA	NA		NA	NA	13	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						*98* *90*	*50-150*			

Date of Report: March 19, 2021
Samples Submitted: March 16, 2021
Laboratory Reference: 2103-165
Project: 397-035

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-SP1**					
Laboratory ID:	03-165-01					
Dichlorodifluoromethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Chloromethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Vinyl Chloride	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Bromomethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Chloroethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Trichlorofluoromethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Iodomethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Methylene Chloride	ND	0.0065	EPA 8260D	3-16-21	3-16-21	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
2,2-Dichloropropane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Bromochloromethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Chloroform	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Carbon Tetrachloride	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloropropene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Benzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloroethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Trichloroethene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloropropane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Dibromomethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Bromodichloromethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Toluene	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	

Date of Report: March 19, 2021
Samples Submitted: March 16, 2021
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VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-SP1**					
Laboratory ID:	03-165-01					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Tetrachloroethene	0.0012	0.00099	EPA 8260D	3-16-21	3-16-21	
1,3-Dichloropropane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Dibromochloromethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromoethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Chlorobenzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Ethylbenzene	0.0011	0.00099	EPA 8260D	3-16-21	3-16-21	
m,p-Xylene	0.0032	0.0020	EPA 8260D	3-16-21	3-16-21	
o-Xylene	0.0025	0.00099	EPA 8260D	3-16-21	3-16-21	
Bromoform	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Bromobenzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
2-Chlorotoluene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
4-Chlorotoluene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260D	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*74-131*				
Toluene-d8	*97*	*78-128*				
4-Bromofluorobenzene	*101*	*71-130*				

Date of Report: March 19, 2021
Samples Submitted: March 16, 2021
Laboratory Reference: 2103-165
Project: 397-035

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-SP2**					
Laboratory ID:	03-165-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Chloromethane	ND	0.0053	EPA 8260D	3-16-21	3-16-21	
Vinyl Chloride	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Bromomethane	ND	0.0053	EPA 8260D	3-16-21	3-16-21	
Chloroethane	ND	0.0053	EPA 8260D	3-16-21	3-16-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Iodomethane	ND	0.0053	EPA 8260D	3-16-21	3-16-21	
Methylene Chloride	ND	0.0070	EPA 8260D	3-16-21	3-16-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Bromochloromethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Chloroform	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Benzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Trichloroethene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Dibromomethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260D	3-16-21	3-16-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Toluene	ND	0.0053	EPA 8260D	3-16-21	3-16-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	

Date of Report: March 19, 2021
Samples Submitted: March 16, 2021
Laboratory Reference: 2103-165
Project: 397-035

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-SP2**					
Laboratory ID:	03-165-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Tetrachloroethene	0.0015	0.0011	EPA 8260D	3-16-21	3-16-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Chlorobenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Ethylbenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
m,p-Xylene	ND	0.0021	EPA 8260D	3-16-21	3-16-21	
o-Xylene	0.0014	0.0011	EPA 8260D	3-16-21	3-16-21	
Bromoform	ND	0.0053	EPA 8260D	3-16-21	3-16-21	
Bromobenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260D	3-16-21	3-16-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Hexachlorobutadiene	ND	0.0053	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*74-131*				
Toluene-d8	*98*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				

Date of Report: March 19, 2021
Samples Submitted: March 16, 2021
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Project: 397-035

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-SP3**					
Laboratory ID:	03-165-03					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Chloromethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromomethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Chloroethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Iodomethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Methylene Chloride	ND	0.0066	EPA 8260D	3-16-21	3-16-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromochloromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Chloroform	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Benzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Trichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Dibromomethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Toluene	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-SP3**					
Laboratory ID:	03-165-03					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Tetrachloroethene	0.012	0.0010	EPA 8260D	3-16-21	3-16-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Chlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Ethylbenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
m,p-Xylene	ND	0.0020	EPA 8260D	3-16-21	3-16-21	
o-Xylene	0.0011	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromoform	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Bromobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*74-131*				
Toluene-d8	*96*	*78-128*				
4-Bromofluorobenzene	*95*	*71-130*				

Date of Report: March 19, 2021
Samples Submitted: March 16, 2021
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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Chloromethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromomethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Chloroethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Iodomethane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Methylene Chloride	ND	0.0066	EPA 8260D	3-16-21	3-16-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromochloromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Chloroform	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Benzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Trichloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Dibromomethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Toluene	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	

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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Chlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Ethylbenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
m,p-Xylene	ND	0.0020	EPA 8260D	3-16-21	3-16-21	
o-Xylene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Bromoform	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
Bromobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	3-16-21	3-16-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	3-16-21	3-16-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*74-131*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				

Date of Report: March 19, 2021
Samples Submitted: March 16, 2021
Laboratory Reference: 2103-165
Project: 397-035

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0316S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0453**	**0.0446**	0.0500	0.0500	91	89	55-126	2	17	
Benzene	**0.0478**	**0.0482**	0.0500	0.0500	96	96	65-121	1	16	
Trichloroethene	**0.0524**	**0.0504**	0.0500	0.0500	105	101	74-126	4	16	
Toluene	**0.0483**	**0.0475**	0.0500	0.0500	97	95	71-121	2	16	
Chlorobenzene	**0.0496**	**0.0489**	0.0500	0.0500	99	98	72-123	1	16	
Surrogate:										
Dibromofluoromethane					*97*	*102*	*74-131*			
Toluene-d8					*98*	*98*	*78-128*			
4-Bromofluorobenzene					*107*	*105*	*71-130*			

Date of Report: March 19, 2021
Samples Submitted: March 16, 2021
Laboratory Reference: 2103-165
Project: 397-035

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-SP1**					
Laboratory ID:	03-165-01					
Aroclor 1016	**ND**	0.058	EPA 8082A	3-17-21	3-17-21	
Aroclor 1221	**ND**	0.058	EPA 8082A	3-17-21	3-17-21	
Aroclor 1232	**ND**	0.058	EPA 8082A	3-17-21	3-17-21	
Aroclor 1242	**ND**	0.058	EPA 8082A	3-17-21	3-17-21	
Aroclor 1248	**ND**	0.058	EPA 8082A	3-17-21	3-17-21	
Aroclor 1254	**ND**	0.058	EPA 8082A	3-17-21	3-17-21	
Aroclor 1260	**ND**	0.058	EPA 8082A	3-17-21	3-17-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*105*	*46-125*				
Client ID:	**Hoist-SP2**					
Laboratory ID:	03-165-02					
Aroclor 1016	**ND**	0.061	EPA 8082A	3-17-21	3-17-21	
Aroclor 1221	**ND**	0.061	EPA 8082A	3-17-21	3-17-21	
Aroclor 1232	**ND**	0.061	EPA 8082A	3-17-21	3-17-21	
Aroclor 1242	**ND**	0.061	EPA 8082A	3-17-21	3-17-21	
Aroclor 1248	**ND**	0.061	EPA 8082A	3-17-21	3-17-21	
Aroclor 1254	**ND**	0.061	EPA 8082A	3-17-21	3-17-21	
Aroclor 1260	**ND**	0.061	EPA 8082A	3-17-21	3-17-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*100*	*46-125*				
Client ID:	**Hoist-SP3**					
Laboratory ID:	03-165-03					
Aroclor 1016	**ND**	0.060	EPA 8082A	3-17-21	3-17-21	
Aroclor 1221	**ND**	0.060	EPA 8082A	3-17-21	3-17-21	
Aroclor 1232	**ND**	0.060	EPA 8082A	3-17-21	3-17-21	
Aroclor 1242	**ND**	0.060	EPA 8082A	3-17-21	3-17-21	
Aroclor 1248	**ND**	0.060	EPA 8082A	3-17-21	3-17-21	
Aroclor 1254	**ND**	0.060	EPA 8082A	3-17-21	3-17-21	
Aroclor 1260	**ND**	0.060	EPA 8082A	3-17-21	3-17-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*87*	*46-125*				

Date of Report: March 19, 2021
Samples Submitted: March 16, 2021
Laboratory Reference: 2103-165
Project: 397-035

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0317S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	3-17-21	3-17-21	
Aroclor 1221	**ND**	0.050	EPA 8082A	3-17-21	3-17-21	
Aroclor 1232	**ND**	0.050	EPA 8082A	3-17-21	3-17-21	
Aroclor 1242	**ND**	0.050	EPA 8082A	3-17-21	3-17-21	
Aroclor 1248	**ND**	0.050	EPA 8082A	3-17-21	3-17-21	
Aroclor 1254	**ND**	0.050	EPA 8082A	3-17-21	3-17-21	
Aroclor 1260	**ND**	0.050	EPA 8082A	3-17-21	3-17-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*89*	*46-125*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-165-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.488**	**0.494**	0.500	0.500	ND	**98**	**99**	43-125	1	15	
Surrogate:											
DCB						*89*	*101*	*46-125*			

Date of Report: March 19, 2021
Samples Submitted: March 16, 2021
Laboratory Reference: 2103-165
Project: 397-035

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-SP1**					
Laboratory ID:	03-165-01					
Arsenic	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Barium	**81**	2.9	EPA 6010D	3-16-21	3-16-21	
Cadmium	**ND**	0.58	EPA 6010D	3-16-21	3-16-21	
Chromium	**46**	0.58	EPA 6010D	3-16-21	3-16-21	
Lead	**19**	5.8	EPA 6010D	3-16-21	3-16-21	
Mercury	**ND**	0.29	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Silver	**ND**	1.2	EPA 6010D	3-16-21	3-16-21	
Client ID:	**Hoist-SP2**					
Laboratory ID:	03-165-02					
Arsenic	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Barium	**130**	3.1	EPA 6010D	3-16-21	3-16-21	
Cadmium	**ND**	0.61	EPA 6010D	3-16-21	3-16-21	
Chromium	**47**	0.61	EPA 6010D	3-16-21	3-16-21	
Lead	**24**	6.1	EPA 6010D	3-16-21	3-16-21	
Mercury	**ND**	0.31	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Silver	**ND**	1.2	EPA 6010D	3-16-21	3-16-21	
Client ID:	**Hoist-SP3**					
Laboratory ID:	03-165-03					
Arsenic	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Barium	**100**	3.0	EPA 6010D	3-16-21	3-16-21	
Cadmium	**ND**	0.60	EPA 6010D	3-16-21	3-16-21	
Chromium	**35**	0.60	EPA 6010D	3-16-21	3-16-21	
Lead	**60**	6.0	EPA 6010D	3-16-21	3-16-21	
Mercury	**ND**	0.30	EPA 7471B	3-16-21	3-16-21	
Selenium	**ND**	12	EPA 6010D	3-16-21	3-16-21	
Silver	**ND**	1.2	EPA 6010D	3-16-21	3-16-21	

Date of Report: March 19, 2021
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Project: 397-035

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316SM1					
Arsenic	**ND**	10	EPA 6010D	3-16-21	3-16-21	
Barium	**ND**	2.5	EPA 6010D	3-16-21	3-16-21	
Cadmium	**ND**	0.50	EPA 6010D	3-16-21	3-16-21	
Chromium	**ND**	0.50	EPA 6010D	3-16-21	3-16-21	
Lead	**ND**	5.0	EPA 6010D	3-16-21	3-16-21	
Selenium	**ND**	10	EPA 6010D	3-16-21	3-16-21	
Silver	**ND**	1.0	EPA 6010D	3-16-21	3-16-21	
Laboratory ID:	MB0316S2					
Mercury	**ND**	0.25	EPA 7471B	3-16-21	3-16-21	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-113-03									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**30.7**	**32.4**	NA	NA		NA	NA	6	20	
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**15.6**	**15.8**	NA	NA		NA	NA	1	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-136-01									
Mercury	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-136-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**88.4**	**88.3**	100	100	ND	**88**	**88**	75-125	0	20
Barium	**120**	**120**	100	100	30.7	**89**	**89**	75-125	0	20
Cadmium	**43.3**	**43.6**	50.0	50.0	ND	**87**	**87**	75-125	1	20
Chromium	**104**	**103**	100	100	15.6	**88**	**87**	75-125	1	20
Lead	**218**	**222**	250	250	ND	**87**	**89**	75-125	2	20
Selenium	**88.3**	**88.3**	100	100	ND	**88**	**88**	75-125	0	20
Silver	**20.6**	**20.7**	25.0	25.0	ND	**82**	**83**	75-125	1	20
Laboratory ID:	03-136-01									
Mercury	**0.412**	**0.414**	0.500	0.500	0.00560	**81**	**82**	80-120	0	20

Date of Report: March 19, 2021
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Laboratory Reference: 2103-165
Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-SP1**					
Laboratory ID:	03-165-01					
Benzo[a]anthracene	**0.014**	0.0077	EPA 8270E/SIM	3-17-21	3-17-21	
Chrysene	**0.020**	0.0077	EPA 8270E/SIM	3-17-21	3-17-21	
Benzo[b]fluoranthene	**0.017**	0.0077	EPA 8270E/SIM	3-17-21	3-17-21	
Benzo(j,k)fluoranthene	**ND**	0.0077	EPA 8270E/SIM	3-17-21	3-17-21	
Benzo[a]pyrene	**0.015**	0.0077	EPA 8270E/SIM	3-17-21	3-17-21	
Indeno(1,2,3-c,d)pyrene	**0.0097**	0.0077	EPA 8270E/SIM	3-17-21	3-17-21	
Dibenz[a,h]anthracene	**ND**	0.0077	EPA 8270E/SIM	3-17-21	3-17-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*84*	*46 - 113*				
Pyrene-d10	*98*	*45 - 114*				
Terphenyl-d14	*93*	*49 - 121*				

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Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-SP2**					
Laboratory ID:	03-165-02					
Benzo[a]anthracene	**0.015**	0.0081	EPA 8270E/SIM	3-17-21	3-17-21	
Chrysene	**0.021**	0.0081	EPA 8270E/SIM	3-17-21	3-17-21	
Benzo[b]fluoranthene	**0.024**	0.0081	EPA 8270E/SIM	3-17-21	3-17-21	
Benzo(j,k)fluoranthene	**ND**	0.0081	EPA 8270E/SIM	3-17-21	3-17-21	
Benzo[a]pyrene	**0.018**	0.0081	EPA 8270E/SIM	3-17-21	3-17-21	
Indeno(1,2,3-c,d)pyrene	**0.016**	0.0081	EPA 8270E/SIM	3-17-21	3-17-21	
Dibenz[a,h]anthracene	**ND**	0.0081	EPA 8270E/SIM	3-17-21	3-17-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*76*	*46 - 113*				
Pyrene-d10	*87*	*45 - 114*				
Terphenyl-d14	*86*	*49 - 121*				

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Project: 397-035

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Hoist-SP3**					
Laboratory ID:	03-165-03					
Benzo[a]anthracene	**0.057**	0.0080	EPA 8270E/SIM	3-17-21	3-17-21	
Chrysene	**0.065**	0.0080	EPA 8270E/SIM	3-17-21	3-17-21	
Benzo[b]fluoranthene	**0.069**	0.0080	EPA 8270E/SIM	3-17-21	3-17-21	
Benzo(j,k)fluoranthene	**0.024**	0.0080	EPA 8270E/SIM	3-17-21	3-17-21	
Benzo[a]pyrene	**0.056**	0.0080	EPA 8270E/SIM	3-17-21	3-17-21	
Indeno(1,2,3-c,d)pyrene	**0.039**	0.0080	EPA 8270E/SIM	3-17-21	3-17-21	
Dibenz[a,h]anthracene	**ND**	0.0080	EPA 8270E/SIM	3-17-21	3-17-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*86*	*46 - 113*				
Pyrene-d10	*93*	*45 - 114*				
Terphenyl-d14	*98*	*49 - 121*				

Date of Report: March 19, 2021
Samples Submitted: March 16, 2021
Laboratory Reference: 2103-165
Project: 397-035

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0317S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270E/SIM	3-17-21	3-17-21	
Chrysene	**ND**	0.0067	EPA 8270E/SIM	3-17-21	3-17-21	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270E/SIM	3-17-21	3-17-21	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270E/SIM	3-17-21	3-17-21	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270E/SIM	3-17-21	3-17-21	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270E/SIM	3-17-21	3-17-21	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270E/SIM	3-17-21	3-17-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*102*	*46 - 113*				
Pyrene-d10	*120*	*45 - 114*				Q
Terphenyl-d14	*113*	*49 - 121*				

Date of Report: March 19, 2021
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PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0317S1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	**0.0896**	**0.0875**	0.0833	0.0833	108	105	72 - 129	2	15	
Chrysene	**0.0840**	**0.0872**	0.0833	0.0833	101	105	66 - 123	4	15	
Benzo[b]fluoranthene	**0.0839**	**0.0827**	0.0833	0.0833	101	99	68 - 128	1	15	
Benzo(j,k)fluoranthene	**0.0853**	**0.0859**	0.0833	0.0833	102	103	63 - 128	1	16	
Benzo[a]pyrene	**0.0835**	**0.0840**	0.0833	0.0833	100	101	66 - 130	1	15	
Indeno(1,2,3-c,d)pyrene	**0.0836**	**0.0819**	0.0833	0.0833	100	98	63 - 135	2	15	
Dibenz[a,h]anthracene	**0.0822**	**0.0830**	0.0833	0.0833	99	100	65 - 130	1	15	
Surrogate:										
2-Fluorobiphenyl					*100*	*101*	*46 - 113*			
Pyrene-d10					*114*	*113*	*45 - 114*			
Terphenyl-d14					*110*	*109*	*49 - 121*			

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% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
Hoist-SP1	03-165-01	**13**	3-16-21
Hoist-SP2	03-165-02	**18**	3-16-21
Hoist-SP3	03-165-03	**17**	3-16-21

OnSite Environmental Inc.

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.

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.

Z -

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

Chain of Custody

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OnSite Environmental Inc.
Analytical Laboratory Testing Services
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Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon
Project Number: 397-035
Project Name: Block 79
Project Manager: Eric Buer
Sampled by: Courtney van Stolk

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

Laboratory Number: 03-165

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX 8260	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	cPAHs				% Moisture
1	Moist-SP1	3-15	1408	soil	6		X		X		X				X				X				X				8
2	Moist-SP2	↓	1410	↓	↓		X		X		X				X				X				X				↓
3	Moist-SP3	↓	1428	↓	↓		X		X		X				X				X				X				

	Signature	Company	Date	Time
Relinquished	Courtney Van Stolk	Farallon	3-16-21	0937
Received	Van	spdy	3-16-21	0937
Relinquished	Van	spdy	3-16-21	1105
Received			3/16/21	1105
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐