

CONSTRUCTION COMPLETION REPORT

Spic'n Span Cleaners Thermal Remediation
Prepared for: Spic'n Span Cleaners

Project No. 060172 • May 19, 2023 FINAL



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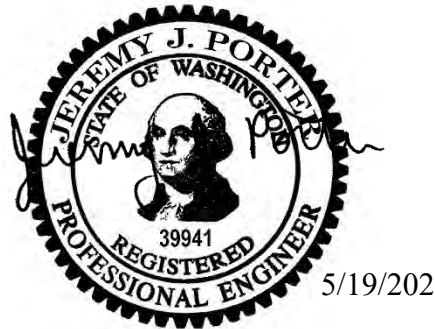
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Acronyms

APH	Air-Phase Hydrocarbon
Aspect	Aspect Consulting, LLC
bgs	below ground surface
BETX	benzene, ethylbenzene, toluene and xylenes
CDF	controlled density fill
CID	contained-in determination
CUL	Cleanup level
CY	cubic yard
DCI	Seattle Department of Construction and Inspections
DHE	DH Environmental
Ecology	Washington Department of Ecology
EDR	Engineering Design Report
ERH	electrical resistance heating
GAC	granular activated carbon
gpm	gallons per minute
HBM	hazardous building materials
HSA	hollow stem auger
ISRD	International Special Review District Board
KCIW	King County Industrial Waste
MassDEP	Massachusetts Department of Environmental Protection
mg/kg	milligrams/kilograms
mg/L	milligrams per liter
µg/L	micrograms per liter
MTCA	Model Toxics Control Act
NFA	No Further Action
ORP	oxidation-reduction potential
PCC	Pacific Coast Carbon

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PCE	tetrachloroethylene
PSCAA	Puget Sound Clean Air Agency
PSE	Puget Sound Energy
PVC	polyvinyl chloride
RI/FS	Remedial Investigation/Feasibility Study
SAP	Sampling and Analysis Plan
SDOT	Seattle Department of Transportation
SHJ	SHJ Electric Co., Inc.
SSF	Swenson Say Faget
SVE	soil vapor extraction
TCE	trichloroethylene
TEF	toxic equivalency factor
TPH	total petroleum
TRS	TRS Group, Inc.
UST	underground storage tank
VC	vinyl chloride
VCP	Voluntary Cleanup Program
VOC	volatile organic compound
WAC	Washington Administrative Code
WDNR	Washington Department of Natural Resources

1 Introduction

This report documents the installation, startup, and operations of the electrical resistance heating (ERH) thermal remediation system at the Spic'n Span Site and the confirmation sampling activities conducted during and after treatment. The remediation system is being operated as a cleanup action to address total petroleum (TPH) as mineral spirits, perchloroethene (PCE), and associated degradation products trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), and vinyl chloride (VC) occurrences in soil and groundwater. This cleanup is being conducted under the Washington State Department of Ecology's (Ecology) Voluntary Cleanup Program (VCP).

1.1 Objectives

The draft Remedial Investigation, Feasibility Study, and Cleanup Action Plan (RI/FS/CAP) identified *in situ* thermal treatment using ERH and natural attenuation as the preferred remedy for the Site (Aspect, 2011). The ERH system was designed to remove volatile organic compounds (VOCs) from impacted soil and groundwater onsite. The Final Technical Approach (Technical Approach; TRS, 2019) and the Engineering Design Report (EDR; Aspect, 2019) provides the full design details.

ERH is a process whereby soils and groundwater are heated by passing an electrical current through the subsurface volume to be remediated. The power control unit (PCU) delivers energy to electrodes for soil and groundwater heating. The resistance produced by the soil matrix from the flow of electricity between electrodes heats the subsurface and boils a portion of the soil moisture into steam. The heat generated by resistance to the induced electrical current also evaporates the target contaminants. Vapor recovery wells produce a vacuum influence on the treatment area and collect the *in situ* steam and evaporated contaminants generated by ERH.

1.2 General Description of the Site

The Spic'n Span Cleaners Site includes the former Spic'n Span Cleaners property (Property: King County Tax parcel number 5247802385, located at 652 South Dearborn Street in Seattle, Washington – see Figure 1) and portions of adjacent properties and rights-of-way where contaminants have come to be located. The Site is located approximately 2,600 feet east of Elliott Bay. The surrounding area is generally flat, with a gradual slope to the west. The Site surface is covered with either buildings or pavement. The property size is approximately 13,000 square feet.

The Site is located in mixed residential, commercial, and light industrial area. Adjacent land use includes parking lots to the north and east, a warehouse to the south, and an office building to the west. The Site is within the City of Seattle water service area, and there is no known use of groundwater in the immediate vicinity.

The property is located near the historical shoreline of Elliott Bay. The tide flats in this area were filled in the early 1900s. Historical aerial photographs indicate that the Site was

vacant as of 1938. According to King County assessor records, the two existing one-story structures were built in 1963.

Dry cleaning operations were conducted at the Site from 1963 to 2019. A Site plan showing locations of various historical operations is provided on Figure 2. The southern building is approximately 4,800 square feet and included the retail counter, clothes racks, offices, and steam presses. The northern building is approximately 1,800 square feet and included dry cleaning equipment, laundry equipment, a boiler, and a storage room. The two sections are connected by a covered breezeway in which delivery trucks park.

Site operations previously used mineral spirits (a petroleum solvent typically quantified in the gasoline hydrocarbon range) and PCE as dry-cleaning solvents.

Commercial property use concluded, and all drycleaning equipment and materials were removed from the Property, prior to the installation & operations of the ERH system.

1.3 Project Organization and Responsibilities

The primary parties involved in construction and operation of the thermal cleanup action were:

- **Washington State Department of Ecology (Ecology).** Cleanup is being conducted under VCP No. NW2564. Ecology concurred with the implementation of the thermal treatment remedy in its opinion letter dated February 25, 2013.
- **The City of Seattle (City).** The property is located inside City limits. Installation of piping and wells installed in the street right-of-way were conducted under a City street use permit. A service letter from Seattle City Light was obtained to install the temporary transformer, power poles, and power drop.
- **King County Industrial Waste (KCIW).** Wastewater produced by the removal of groundwater as steam and contaminant vapors during cleanup was treated and discharged to the sanitary sewer under a minor discharge permit from KCIW.
- **Property Owner.** Gerald Ostroff is the owner of the 652 S Dearborn Street property.
- **Engineer.** Aspect Consulting, LLC (Aspect) designed the cleanup action, was Spic'n Span's representative for supervising remedial construction, and is conducting performance monitoring.
- **Thermal Contractor.** TRS Group, Inc. (TRS) designed the ERH system and was contracted with the Property Owner to install the ERH system.
- **Construction Contractor.** Clearcreek Contractors, Inc. (Clearcreek) was contracted with the Engineer to install portions of the ERH system.
- **Drilling Contractor (Driller).** Holt Drilling (Holt) was contracted with the Engineer to install the electrodes, vapor recovery wells, and monitoring wells, and decommission monitoring wells using hollow-stem auger techniques.
- **Waste Contractor.** DH Environmental (DHE) was contracted with Spic'n Span, the former operator, to coordinate waste disposal.

2 System Installation

The ERH system was installed between July 2019 and June 2021 in two phases:

1. Subsurface installation
2. Surface installation

2.1 Construction Schedule

A chronological listing of the major components of construction is as follows:

Dates of Work	Construction Activity
July 30, 2019 – August 19, 2019	Mobilization
August 19, 2019 – November 19, 2019	Subsurface Installation – drilling, electrode installation, trenching, & piping and electrical connections
November 19, 2019 – June 18, 2021	Surface Installation – piping, transformer, GAC vessels, & electrical connections

2.2 Pre-Construction Preparation

Prior to construction of the ERH system, the Spic'n Span building was prepared for drilling access and thermal treatment, which included hazardous building materials (HBM) assessment and abatement, structural assessment, building modifications, and utility disconnection.

2.2.1 Permits and Approvals

The following key permits and approvals were required to install and operate the ERH system:

- Certificate of approval from the International Special Review District for Site alterations due to the remediation project, obtained on December 17, 2018. Approval of the final fence mural design was obtained on May 22, 2019. Approval of the changes to the transformer location and secondary containment pad was obtained on February 10, 2020. These certificates are included in Appendix A.
- Wastewater discharge authorization from King County Industrial Waste. This authorization was obtained on January 24, 2020. An extension was granted on December 9, 2021, for a revised expiration date of February 1, 2023. Both authorizations are included in Appendix A.
- A service letter from Seattle City Light to provide electrical power to the Site. This service letter was obtained on May 3, 2019, and is included in Appendix A.

- Agreement with the owner of the north-adjacent parking lot, KeyBank, allowing installation, operation, and monitoring of ERH components.
- A street use permit from the Seattle Department of Transportation (SDOT) to allow electrode drilling and utility trenching in the adjacent rights-of-way. This permit was obtained on October 25, 2019, and is included in Appendix A.
- A building permit from the Seattle Department of Construction and Inspections (DCI) to allow modification of doorways inside the Site building to allow access by drill rigs. DCI determined this work could be performed under a Subject-to-Field-Inspection permit, which is included in Appendix A.
- A permit application for vapor treatment and discharge was submitted to the Puget Sound Clean Air Agency (PSCAA); however, PSCAA determined that the system was exempt. The exemption letter is provided in Appendix A.

2.2.2 Asbestos Abatement

A hazardous building materials assessment conducted by Elisabeth Black of EMB Consulting on May 10, 2019, identified asbestos-containing materials (ACM) within the building that would potentially be disturbed during building modifications required for subsurface installation activities. The targeted regulated building material inspection by EMB Consulting is included as Appendix B.

DHE subcontracted with Walker Specialty Construction, Inc. (Walker) to execute the asbestos abatement on August 26, 2019. The abatement consisted of the removal of approximately 400 square feet of tile, 1,000 linear feet of insulated piping, and 75 insulated pipe fittings. Transport and disposal of asbestos-containing material was conducted by Walker. The ACM assessment and disposal documents are provided in Appendix B.

2.2.3 Structural Assessment

Swenson Say Faget (SSF) provided structural engineering support during building modifications and during thermal treatment. SSF reviewed the building plans and current building conditions and provided recommendations for the pre-drilling building modifications. Additionally, SSF assessed the effects of heating the soil on the structural components of the building. SSF conducted monthly structural building assessments before and during system operations from September 2021 to January 2022. SSF observed no new or worsening structural conditions during the operation of the thermal treatment system. Structural building monitoring is planned to continue on a quarterly basis for one year, and SSF will provide a final report documenting the results at the conclusion of monitoring.

2.2.4 Building Modifications

Openings in the northern Spic'n Span building had to be enlarged in order to accommodate a drill rig for installation of electrodes and VR wells. Three non-load bearing walls between the four western rooms in the northern building were removed, and the load bearing doorway into the second most western room in the northern building was enlarged and reinforced. The interior walls for the office space in the northwest corner of the southern building was also demolished to provide access for the drill rig. A

structural engineer provided recommendations for these modifications, as discussed in Section 2.2.3.

2.2.5 Utility Disconnection

The treatment system was designed around buried utilities to mitigate the potential for preferential pathways, but in some cases, utilities needed to be protected from the high subsurface temperatures or disconnected. The gas meter was removed on August 20, 2019, and the gas line was cut and capped on August 21, 2019, by Puget Sound Energy (PSE).

During installation of ERH subsurface piping on the KeyBank Property, a 6-inch polyvinyl chloride (PVC) pipe was encountered at a depth of 4 feet. Subsequent discussions with KeyBank determined that this line was an active storm drain line running from the KeyBank Building to the Maynard Ave South sewer line. Approximately 100 feet of this line was replaced with a nonconductive, higher-temperature rated material to avoid potential damage during the treatment period, as described in Section 2.3.5.

Electricity was left on in the main building to provide power for the entrance area and overhead lights. Water service was maintained to provide makeup water for cooling of the thermal treatment system and to maintain moisture around electrodes.

2.3 Subsurface Installation

Subsurface construction of the ERH system included the electrodes, vapor recovery wells, monitoring well installation and decommissioning, and trenching and piping installation. Wells were installed by licensed drillers (Holt) in accordance with applicable well construction regulations (WAC 173-160). Prior to well drilling or trenching, private and public utility locates were performed. The work was conducted under applicable regulations and permits, including a City of Seattle street use permit for wells and trenches in the City right-of-way (Appendix A). Boring logs, and well construction details for monitoring wells, are included in Appendix C. ERH system as-builts are included in TRS's Electrical Resistance Heating Final Report (Final Report; TRS, 2022).

2.3.1 Electrode Installation

Holt and TRS installed 52 electrodes within the treatment zone with an average spacing of 15 feet (see Figure Y-1 of TRS's Final Report). Electrode boreholes were drilled with a 12-inch diameter auger down to 28 feet below ground surface (bgs) and backfilled with conductive material to 5 feet bgs, sand to 1.5 feet bgs, and neat cement to the surface. There were four treatment areas with varying target depths:

- Area A (4 to 26 feet bgs)
- Area B (6.5 to 26 feet bgs)
- Area C (1 to 26 feet bgs)
- Area D (10 to 26 feet bgs).

Electrodes located outside the buildings were completed with flush mount monuments at the surface. Electrode installation began in August 2019 and was completed in November 2019.

2.3.2 Vapor Recovery Well Installation

Holt and TRS installed 26 independently located VR wells and 19 VR wells collocated with electrodes. VR wells were drilled with a 12-inch-diameter auger down to 10 feet bgs and backfilled with sand around the chlorinated PVC (CPVC) vapor recovery screen to 2 feet bgs and controlled density fill (CDF) to the surface. VR well installation began in August 2019 and was completed in November 2019.

2.3.3 Monitoring Well Installation

Four new monitoring wells of stainless-steel construction were installed within the treatment area: two new wells on the KeyBank Property (MW-11 and MW-12), one new well on the Spic'n Span property (MW-10), and one replacement well (MW-5R) for an existing PVC well. The wells were installed in accordance with draft Sampling and Analysis Plan (SAP; Aspect, 2016).

Screen depths were based on matching existing well screen depths when available, and matching depths of exceedances from direct push borings. Well installation and soil logging were documented by an Aspect geologist using boring logs and well construction logs. After logging soils, all drill cuttings were containerized for disposal, detailed in Section 2.5 below. A well survey to measure well casing elevations relative to the existing monitoring well network was performed by Aspect on July 18, 2022, after completion of thermal treatment because the fittings installed for operation to prevent steam flashing during sampling did not allow gauging of water depths. Well construction details are included in Table 1. As-built boring and well construction logs are provided in Appendix A. Well casing elevations and depth-to-water measurements from June 2022 are included in Table 2.

Monitoring wells were drilled to a depth of approximately 30 feet using hollow stem auger (HSA) techniques, and continuous soil samples were collected for logging. Borings were advanced with 8-inch-diameter rods. Wells were constructed with 2-inch-diameter PVC with 20-foot-long, 0.010-inch slot stainless steel screens. The filter pack was 20/40 silica sand. An annular seal consisting of bentonite chips was placed above the filter pack. An 8-inch minimum surface seal was installed with an auger. Flush-mount monuments were installed by the Driller to allow access to these wells.

Monitoring wells were developed to facilitate a good hydraulic connection with the subsurface. Water removed from the wells was placed in 55-gallon drums for later disposal. Disposal is described in Section 2.5 below.

2.3.4 Well Decommissioning

Existing wells within the treatment area that were constructed of PVC were decommissioned by Holt. This included four monitoring wells, one soil vapor extraction (SVE) well, and seven sparge wells. The wells were grouted in place in accordance with WAC 173-160-381 during the subsurface installation activities.

2.3.5 Trenching and Piping Installation

Clearcreek completed the trenching, backfilling, and restoration tasks conducted during the subsurface installation phase of the project, in accordance with the Technical Approach. These activities were conducted in two phases—the first at the KeyBank Property and the second at the Spic’n Span Property.

2.3.5.1 KeyBank Property

Approximately 305 lineal feet of 3-inch-thick asphalt was cut, removed, and disposed of offsite to access the trench locations in the KeyBank parking lot. Soil from four trenches for the electrode, VR piping, and cables were excavated by Clearcreek, with dimensions of approximately 2-feet wide by 2-feet deep.

Approximately 100 lineal feet of 3-inch-thick asphalt was cut, removed, and disposed of offsite to replace the storm drain line in the treatment area identified in Section 2.2.3. Clearcreek excavated soil to a depth of 4 feet and then cut out and removed the existing storm drain line. The storm drain line was replaced with 6-inch CPVC pipe, which can withstand the high subsurface temperatures during treatment.

Following pipe installation (described in Section 2.3.5.3), the trenches were backfilled with CDF to provide structural support for the parking lot. The surface of the KeyBank parking lot was restored with 3-inch-thick asphalt and sealed seams, and the parking spots were re-stripped.

2.3.5.2 Spic’n Span Property

Approximately 16 lineal feet of 3-inch-thick asphalt and 74 lineal feet of concrete was cut, removed, and disposed of offsite to access the trench locations in the Spic’n Span parking lot and right-of-way. Approximately 15 lineal feet of decorative bricks from a section of sidewalk on the corner of Maynard Ave South and South Dearborn Street were removed for trenching and will be restored after the cooldown period.¹

Clearcreek excavated soil from nine trenches for the electrode, VR piping, and cables, with dimensions of approximately 2-feet wide by 2-feet deep. The trenches extended from the property into the sidewalk rights-of-way.

Following pipe installation (described in Section 2.3.5.3), the trenches were backfilled with CDF to provide structural support for the parking lot and sidewalk. The surfaces were restored with concrete patches, and flush-mount monuments were installed at the end of trenches for access to the electrodes and VRs.

During clearing of electrodes inside the breezeway, three steel pipes associated with the former underground storage tanks (USTs) were encountered at an approximate depth of 4 feet. These pipes needed to be removed to prevent potential short circuiting during treatment. Approximately 25 lineal feet of concrete was cut, removed, and disposed of offsite to access the pipes in the Spic’n Span breezeway. Clearcreek excavated a trench measuring 25 feet in length by 4 feet in depth and removed the pipes. The excavated soil was reused as backfill in the breezeway trench, and the surface was restored with asphalt.

¹ The decorative bricks were stored inside the locked Spic’n Span building during treatment but despite the fence and Site security, the bricks were stolen and will need to be replaced.

2.3.5.3 Pipe Installation

Following the excavation of trenches, TRS installed CPVC piping according to the design plans in the Technical Approach for the VR and drip tube connections prior to the CDF backfill. The piping installation is described in more detail in TRS's Final Report.

2.4 Surface Installation

Following the completion of the subsurface installation, TRS installed the ERH equipment, and Aspect coordinated installation of the carbon vessels, oil containment and transformer pad, and electrical connection. Representative photographs of surface construction are provided in Appendix D.

2.4.1 Equipment

The PCU, condenser, cooling towers, electrode cables, VR piping, VR blower, temperature monitoring system, and security system were installed by TRS from November 2019 through June 2021, with delays due to the coronavirus pandemic and revised permit requirements by SCL for the transformer. The condenser and cooling towers were located in the southwest corner of the Site. The blower and PCU were located on the south side of the Spic'n Span building, underneath the carport. A conex box for equipment storage was set up in the northwest corner of the Spic'n Span Property. The equipment installation is described in more detail in TRS's Final Report (TRS, 2022).

2.4.2 Carbon Vessels and Condensate Storage

The granular activated carbon (GAC) vessels used to treat extracted vapor were provided by Pacific Coast Carbon (PCC) of Ridgefield, Washington. PCC delivered six 2,000-lb vapor phase vessels and the GAC for both the vapor (VGAC) and liquid (LGAC) phase treatment on July 7, 2021. The six VGAC vessels were installed with a forklift inside the fence doors on the south side of the Spic'n Span building. TRS provided two 200-lb liquid phase vessels and installed piping and fittings to connect the LGAC and VGAC vessels to the treatment system.

2.4.3 Transformer and Power Poles

The locations of the transformer and oil containment area were adjusted with SCL approval from the original Technical Approach, due to updated SCL construction standard 0724.50 (effective on May 21, 2019). Clearcreek excavated the conduit trench and constructed the oil containment system and transformer pad in accordance with SCL construction standards 0724.50 and 0735.50, as shown on the design plans on Figure Y-1B of TRS's Final Report.

Installation of the conduit consisted of cutting approximately 40 lineal feet of asphalt, excavating clean soil for trenches for the conduit, and installation of the conduit upon approval from the SCL inspector. Construction of the oil containment system and transformer pad included cutting 260 square feet of asphalt, excavating approximately 27 tons of clean soil, building forms for the concrete, pouring the concrete, installing the HFF-FR3 oil stop valve, and building an asphalt ramp for SCL access. Clearcreek also installed 8-inch high-visibility bollards on the south and east sides of the transformer in accordance with SCL guidelines.

The final location of the transformer at the Site is shown on Y-1B of TRS's Final Report. The temporary transformer was installed by SCL on June 16, 2021. SCL connected the overhead power to the transformer on June 18, 2021.

Temporary power poles were installed by SCL on March 26, 2021, to provide power to the transformer. The location of the power poles was adjusted from the proposed location in the Technical Approach to eliminate the need for tree trimming on South Dearborn Street.

2.4.4 Electrical Connection

SHJ Electric Co., Inc. (SHJ) of Seattle, Washington, connected the electrical service for the equipment on June 18, 2021. TRS was onsite to observe and test their equipment.

2.4.5 Security Fence

Following construction of the oil containment area and transformer pad, an 8-foot-tall security fence was installed around Spic'n Span property as shown on Figure Y-1 of TRS's Final Report. The fence was constructed of vinyl-coated chain link and wooden beams, with a mural painted on fence screen by Urban Artworks as required by the International Special Review District Board (ISRD). The Certificate of Approval from the ISRD is attached as Appendix A.

2.5 Management and Disposal of Soil and Groundwater

Soil and groundwater generated during well installation and trenching activities were managed in accordance with the Technical Approach. Soil was managed as potentially F-listed hazardous waste by placing into lined and covered 20-CY roll-off boxes pending characterization. Characterization was conducted by collecting approximately 1 sample per container. After characterization, soil containing detectable concentrations of PCE or TCE was transported and disposed of as hazardous waste. Quantities and methods of disposal are summarized below. Laboratory certificates of analysis are provided in Appendix F.

Approximately 27 tons of clean (i.e., no detectable contaminants) soil and surface cover materials were generated from the transformer pad and secondary containment construction. These soils were disposed of by the Contractor.

Approximately 82.63 tons of hazardous waste soil was generated from trenching activities on the KeyBank property during construction. Approximately 114.81 tons of hazardous waste soil was generated from trenching activities on the Spic'n Span property during construction. These soils were disposed of by DHE at a RCRA Subtitle C waste treatment and disposal facility. The waste manifests for hazardous soil disposal are located in Appendix E.

Prior to the building modifications, materials from the dry-cleaning operations and IDW from previous investigations was removed from the building. Approximately 40 gallons of wastewater containing petroleum products, 430 gallons of F-listed hazardous wastewater, and 3 gallons of unregulated wastewater were removed from the building on September 20, 2019. An additional 125 gallons of F-listed hazardous wastewater and 0.36 gallons of cleaning liquids were removed on September 24, 2019. The wastewater

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was disposed of by DHE at a RCRA Subtitle C waste treatment and disposal facility. The waste manifests for hazardous wastewater disposal are provided in Appendix E.

Approximately 754 gallons of F-listed hazardous wastewater was generated from decontamination activities during electrode installation by the drillers. The wastewater was disposed of by DHE at a RCRA Subtitle C waste treatment and disposal facility on December 12, 2019. The waste manifests for hazardous wastewater disposal are located in Appendix E.

Approximately 6 gallons of F-listed caustic hazardous wastewater was generated from concrete cutting. The wastewater was disposed of by DHE at a RCRA Subtitle C waste treatment and disposal facility on December 20, 2019. The waste manifests for hazardous wastewater disposal are located in Appendix E.

Approximately 142 gallons of wastewater was generated from well development and sampling activities. The wastewater was treated with the LGAC system on Site and discharged to the sanitary sewer under the KCIW permit.

3 Baseline Groundwater Monitoring

Groundwater monitoring was conducted on November 20, 2019, and January 6, 2020, prior to operation of the ERH system to establish baseline conditions at new wells and to evaluate conditions at downgradient wells. Groundwater sampling locations are shown on Figure 2 and include existing monitoring wells MW-4, MW-5R, and MW-6, and new wells MW-10, MW-11, and MW-12.

Groundwater levels were measured using a water level indicator. Groundwater samples were collected using low-flow sampling techniques with a peristaltic pump and dedicated tubing. Field parameters measured during sampling included turbidity, temperature, pH, conductivity, dissolved oxygen, and oxidation-reduction potential (ORP).

The wells were sampled and analyzed for VOCs by Environmental Protection Agency (EPA) Method 8260 and gasoline-range TPH (TPH-G) by Method NWTPH-Gx. Analytical results from the groundwater samples are summarized in Table 3, and laboratory certificates of analysis from OnSite Environmental Inc. (OnSite) in Redmond, Washington are provided in Appendix E. The groundwater concentration of PCE at MW-11 (11 µg/L) exceeded the Site cleanup level (CUL) of 5 µg/L. The groundwater concentrations of cis-DCE at MW-4 (36 µg/L) and MW-10 (38 µg/L) exceeded the Site CUL of 16 µg/L. The groundwater concentrations of vinyl chloride at MW-4 (31 µg/L), MW-5R (2.8 µg/L), MW-6 (1.2 µg/L), and MW-10 (1.4 µg/L) exceeded the Site CUL of 0.2 µg/L.

4 ERH Operation and Compliance Monitoring

TRS started the ERH system on August 5, 2021. Monitoring during system operation included vapor discharge monitoring, remediation system operating parameters, and wastewater discharge monitoring. Vapor discharge monitoring results and remediation system operating parameters are summarized in Table 4. The estimated APH and PCE mass removal of the system is included in Table 4.

4.1 System Operation and Optimization

Based on the system operational data and results of the confirmation soil and groundwater sampling events in November and December 2021 (see Sections 5.1 and 5.2 for details), when treatment was considered complete in a particular area, power from these areas was redirected to other areas still requiring treatment. The three southern-most electrodes (the P row in the South Dearborn right-of-way) were taken offline on December 3, 2021. A subset of electrodes on the KeyBank property (B3 through B5 and C3 through C5) were taken offline on December 20, 2021. Four electrodes (N4 through N6) in the southern part of the treatment area were taken offline on January 7, 2022. After electrodes were taken offline, the VR system continued to operate, but at a lower flow rate, in those areas.

4.2 Vapor Discharge Monitoring

Vapor discharge treatment and monitoring was not required by PSCAA per the exemption letter received on February 25, 2016, due to the system operation having a “de minimis impact on air quality and not posing a threat to human health or the environment” (Appendix A). However, vapor produced during the operation of the ERH system was treated with GAC vessels before being discharged to the atmosphere, in accordance with the expectations of the International Special Review District to address community concerns, and to reduce potential odors from the system.

Routine monitoring was conducted in accordance with the EDR to calculate mass removal and evaluate VGAC breakthrough for scheduling changeouts. Monitoring consisted of biweekly recording of PID readings from the influent, mid-point, and effluent lines as well as collecting vapor samples in a summa canister from the influent and effluent for laboratory analysis. Vapor samples were collected weekly for the first month of operation, every other week for the next 4 months, and once during the final month of operation. Vapor samples were analyzed for VOCs by EPA Method TO-15 and petroleum fractions by the Massachusetts Department of Environmental Protection (MassDEP) Air-Phase Hydrocarbon (APH) method. Vapor monitoring data, including PID readings, are summarized in Table 4. Laboratory certificates of analysis from Friedman & Bruya Inc. are provided in Appendix F. After a ramp-up period, the maximum mass removal rate of APH occurred in October 2021 and began to level off by early November. The maximum PCE mass removal rate was achieved in September and then began to level off by early October.

The VGAC influent, mid-point, and effluent PID results were evaluated after each monitoring event to evaluate vessel breakthrough. From August 5, 2021, to January 29, 2022, three VGAC vessels achieved breakthrough and were changed out. Changeouts

occurred on October 8 (vessel 1), October 27 (vessel 2), and December 22 (vessel 3). Out of the six GAC vessels on Site, three achieved breakthrough, two were used for the final phase of the system, and one remained unused.

4.3 Sewer Discharge Compliance Monitoring

All water generated onsite during the operation of the ERH system was treated with GAC before being discharged to the sanitary sewer. Sewer discharge monitoring was required per the King County Wastewater Minor Discharge Authorization (Appendix A). In accordance with the permit requirements, self-monitoring included sampling of effluent and analysis for chlorinated VOCs (PCE, TCE, cis-DCE, trans-DCE, VC) on a monthly basis, and non-polar fats, oils, and grease (FOG) on a quarterly basis. Sampling was initially conducted monthly from the influent, midpoint, and effluent of the two LGAC vessels to evaluate the potential for breakthrough. Based on low concentrations detected, sampling was reduced to minimum discharge authorization requirements. No changeout of the LGAC was required during system operation.

Quarterly discharge monitoring was conducted between August 5, 2021, and January 26, 2022. The pH remained within acceptable limits, non-polar FOG was not detected, and VOCs remained below the limits for permitted discharge. A total of 219,754 gallons of water were discharged to the sanitary sewer during the operation of the ERH system.

5 Performance and Confirmation Sampling

Performance monitoring during system operation provided data to inform system operation. As noted above, once soil and groundwater sampling indicated portions of the Site were below Site cleanup levels, TRS redirected energy to remaining regions that were above cleanup levels. During ERH operation, three soil sampling events and two groundwater sampling events were completed. Soil and groundwater samples were collected in accordance with the hot soil sampling standard operating procedures defined in the draft Sampling and Analysis Plan, which was approved by Ecology (SAP; Aspect, 2016). Soil analytical results are included in Table 5, and groundwater analytical results are included in Table 3. Laboratory certificates of analysis from OnSite are provided in Appendix F.

5.1 Soil Sampling

Two rounds of performance soil sampling were conducted to provide data for system optimization and shutdown, with the first round in November and December 2021 and the second round in January 2022. Sampling locations CB-1 through CB-14 were selected based on areas of historically high soil concentrations and are shown on Figure 3.

There were two minor deviations from the proposed confirmation sampling plan. CB-12 was moved 5 feet to the east onto the property boundary from its proposed location due to a temporary holiday moratorium for right-of-way permitting and CB-14 was drilled at an angle to collect the target depth intervals due to access constraints between the ERH system and the building.

The first soil sampling event occurred in November 2021 after the ERH system reached approximately 60 percent of the power usage goal. On November 18 to 19 and November 22 to 23, Holt operated a limited access direct-push drill rig to advance the stainless-steel samplers at confirmation borings CB-1 through CB-14 with a target depth of 28 feet. At least one sample was collected from each of four depth intervals (0- to 7-feet, 7- to 14-feet, 14- to 21-feet, and 21- to 28-feet) with specific sampling depths based on field screening or depth of historical exceedances. Samples were submitted to OnSite for analysis of VOCs by EPA Method 8260 and TPH-G by Method NWTPH-Gx² and results are shown in Table 4. All sample results were below Site cleanup levels with the exception of TPH-G at depths of 21 and 22 feet bgs at CB-14. However, Site geology and the limitations of the limited access drill rig prevented complete sample collection at six locations despite multiple attempts.

The limited-access drill rig encountered refusal above 28 feet bgs at four locations on the Spic'n Span property (CB-7, CB-8, CB-11, and CB-13). Poor sample recovery was an issue at two locations on the KeyBank property—CB-2 in the 0- to 7-foot interval and 14- to 21-foot interval and CB-4 in the 0- to 7-foot interval. Therefore, a follow-up mobilization to complete the first sampling event was conducted on December 3, 2021. The purpose of this sampling event was to collect three samples from depth intervals with

² In accordance with the SAP, all samples were analyzed for CVOCs, and a subset of samples, based on the original footprint of TPH contamination, were analyzed for TPH-G.

poor recovery at CB-2 and CB-4 on the KeyBank property³. These borings were offset by no more than 3 feet from the original location during the second event. Holt operated a HSA drill rig to achieve better sample recovery. Samples were analyzed by OnSite in the same manner as the first sampling event. Two sample results were below cleanup levels, including the sample from the interval exhibiting highest pre-remediation PCE concentrations (14- to 21-foot bgs at CB-2). There was one slight PCE exceedance (0.2 mg/kg) of the Site cleanup level of 0.15 mg/kg at CB-2 at a depth of 3 feet bgs. Following the MTCA statistical procedures for evaluating compliance as described in the SAP, this does not represent a compliance exceedance.

The second soil sampling event occurred on January 10 and 11, 2022, after the ERH system reached 80 percent of the power usage goal. Sample locations were selected based on the results of the first sampling event and included the five boring locations on the Spic'n Span property that either had cleanup level exceedances or hit refusal above 28 feet bgs. These borings were offset by no more than 3 feet from the original location during the second event. Holt operated a larger direct-push rig (Probe 1008) to achieve target depths at all sample locations. Samples were submitted to OnSite for the same analyses as the first round of soil sampling described above. Concentrations of VOCs and TPH-G were below Site cleanup levels in all samples collected from the seven borings.

5.2 Groundwater Monitoring

Groundwater monitoring was conducted near the end of treatment when performance soil sampling results indicated that areas of the Site were clean. Three performance groundwater monitoring events were conducted during system operation. Groundwater analytical results compared to Site cleanup levels are summarized in Table 3.

The first round of groundwater sampling as conducted at MW-11 and MW-12 on the Keybank property on December 2, 2021. Groundwater was sampled and analyzed for VOCs by EPA Method 8260D. PCE concentrations at both wells exceeded the cleanup level of 5 µg/L.

The second round of groundwater sampling was conducted at MW-5R, MW-11, and MW-12 on December 16, 2021. These wells were selected because performance soil sampling events in November and December 2021 suggested that the southwestern area of the Site and the northern area of the KeyBank property were clean (Section 5.1). Groundwater was sampled and analyzed for VOCs by EPA Method 8260D. There were no exceedances of VOCs at MW-5R, MW-11, or MW-12, confirming the northern area of the Site and the KeyBank property were clean, and system operations were adjusted accordingly (Section 4.1).

The third round of groundwater sampling was conducted after the final soil performance monitoring event at MW-2R, MW-3R, MW-10, and VE-1R on January 12, 2022. Groundwater was sampled and analyzed for VOCs by EPA Method 8260D and TPH-G

³ Further drilling at the boring locations on the Property that did not achieve target depths was deferred until the second sampling event because other samples on the Property exceeded cleanup levels, indicating further treatment was needed.

by NWTPH-Gx in select wells. There were exceedances of Site cleanup levels at MW-2R and MW-10.

After two more weeks of treatment, MW-2R and MW-10 were resampled on January 26, 2022, along with MW-4.⁴ cis-DCE and VC at MW-2R and cis-DCE at MW-10 were detected above cleanup levels at concentrations similar to those detected previously. MW-2R and MW-10 are located along the normally downgradient edge of the property, but it is likely that ongoing heating and steam removal by the thermal treatment system was resulting in an inward gradient, and the concentrations observed were due to untreated groundwater flowing into the Property. Soil concentrations on the Property met cleanup levels and mass removal of the system had reached a point of diminishing returns. Therefore, it was determined that the treatment system had achieved its objectives and could be shut down for confirmation monitoring.

The first confirmation sampling event was conducted on June 21 and 22, 2022. Site wells (MW-1 through MW-12 and VE-1R) were sampled and analyzed for VOCs by EPA Method 8260D and TPH-G by NWTPH-Gx in select wells. Results were below cleanup levels with the following exceptions: VC at MW-2R, cis-DCE and VC at MW-4, and VC at MW-6. MW-2R was the only on-Property well within the treatment area with results exceeding the cleanup level, but groundwater quality has shown improvement since operation of the ERH system. Cis-DCE at MW-2R decreased below the cleanup level since the most recent performance monitoring event, and VC has decreased to be within the same order of magnitude as the cleanup level. Additionally, groundwater quality continued to improve at MW-10, where cis-DCE decreased below the cleanup level since ERH shutdown. Groundwater elevations from June 2022 are shown on Figure 4, and the inferred groundwater flow direction is to the southwest. This is consistent with previous groundwater monitoring events.

Further confirmation groundwater monitoring will be implemented on a quarterly basis to evaluate the potential for rebound post-treatment, as described in the SAP.

⁴ MW-4 is located outside the treatment area, but was sampled to determine if the effects of treatment had resulted in changes downgradient of the Property.

6 System Shutdown and Equipment Decommissioning

Following the final groundwater monitoring event, the ERH system was shut down by TRS on January 29, 2022, after 177 days of operation. Approximately 772 pounds of APH were removed and 42 pounds of PCE were removed during system operation. The VR system remained on for two weeks after the ERH system was shut off on February 12, 2022.

Site demobilization and equipment decommissioning began on February 7, 2022. Surface temporary structures, equipment, surface insulation materials, and conveyance piping were removed from the Site. Full demobilization details are included in TRS's Final Report.

Carbon vessel characterization, disposal, and demobilization were completed in late February and early March. Four-point composite samples of the carbon in the LGAC and VGAC vessels were collected and analyzed for VOCs in order to set up waste disposal profiles. The LGAC vessels were emptied by TRS, and the carbon was put in drums for disposal. PCC emptied out the spent VGAC carbon with a vac truck and removed the vessels on March 1, 2022. In addition to the spent carbon produced from the ERH system, spent carbon from the historic SVE system was emptied from two VGAC vessels on top of the Spic'n Span building. DHE disposed of spent carbon from the Site on March 9, 2022, at a RCRA Subtitle C waste treatment and disposal facility. Based on the carbon profiles set up by DHE, approximately 3,000 pounds of F-listed carbon was incinerated and approximately 3,000 pounds of F-listed carbon was disposed of by direct landfill.

7 References

- Aspect Consulting, LLC (Aspect), 2011. Draft Remedial Investigation, Feasibility Study, and Cleanup Action Plan. Spic'n Span Cleaners, Inc., September 7, 2011.
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- TRS Group, Inc. (TRS), 2019, Final Technical Approach Electrical Resistance Heating. Spic'n Span Cleaners, February 2019.
- TRS Group, Inc. (TRS), 2022, Electrical Resistance Heating Final Report, Former Spic'n Span Cleaners, June 2022.
- Washington State Department of Ecology (Ecology), 2013, Opinion Pursuant to WAC 179-340-515(5) on Proposed Remedial Action for Spic N Span Cleaners, February 25, 2013.

8 Limitations

Work for this project was performed for the Spic'n Span Cleaners, Inc. (Client), and this report was prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. This report does not represent a legal opinion. No other warranty, expressed or implied, is made.

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TABLES

Table 1. Well Construction Summary

Project No. 060172, Spic'n Span Cleaners, Seattle, Washington

Well ID	Location	Well Type	Date Drilled	Casing Diameter (inches)	Casing Material	Total Depth of Boring (ft bgs)	Screen Length (ft)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
MW-5R	Spic'n Span	Monitoring Well	10/29/2019	2	Stainless Steel	30	20	10	30
MW-10	Spic'n Span	Monitoring Well	11/1/2019	2	Stainless Steel	30	20	10	30
MW-11	KeyBank	Monitoring Well	8/19/2019	2	Stainless Steel	30	20	10	30
MW-12	KeyBank	Monitoring Well	8/20/2019	2	Stainless Steel	30	20	10	30

Notes:

ft bgs - feet below ground surface

Table 2. Groundwater Elevations - June 2022

Project No. 060172, Spic'n Span Cleaners, Seattle, Washington

Well	TOC Elevation (ft) ^{1,2}	6/21/2022	
		Depth to Water (ft bTOC)	Water Level Elevation (ft bTOC)
MW-1	100.8	18.72	82.08
MW-2R	99.54	18.18	81.36
MW-3R	99.22	18	81.22
MW-4	99.14	18.86	80.28
MW-5R	98.92	18.31	80.61
MW-6	98.77	18.51	80.26
MW-7	98.9	19.08	79.77
MW-8	97.6	18.75	78.84
MW-9	97.1	18.02	79.07
MW-10	99.20	17.81	81.39
MW-11	100.29	18.24	82.05
MW-12	99.75	16.8	82.95
VE-1R	101.21	20.05	81.16

Notes:

- 1) TOC at wells in treatment area were measured at top of sampling apparatus.
 - 2) Datum is site-specific. Site elevation reference datum is top of fire hydrant at corner of S Dearborn St and Maynard Ave S.
- ft bTOC - feet below top of casing

Table 3. Groundwater Analytical Results

Project No. 060172, Spic'n Span Cleaners, Seattle, Washington

Analyte	Unit	Sample Event Site Groundwater Cleanup Level (ug/L)	Post-ERH Operation	ERH Operation		Post-ERH Operation	ERH Operation	Post-ERH Operation	Baseline	ERH Operation	Post-ERH Operation
			MW-1 06/21/2022 MW-1-062122	MW-2R 01/12/2022 MW-2R-011222	MW-2R 01/26/2022 MW-2R-012622	MW-2R 06/21/2022 MW-2R-062122	MW-3R 01/12/2022 MW-3R-011222	MW-3R 06/21/2022 MW-3R-062122	MW-4 11/20/2019 MW-4-112019	MW-4 01/26/2022 MW-4-012622	MW-4 06/22/2022 MW-4-062222
TPHs											
Gasoline Range Organics	ug/L	1000	--	350 X	--	< 500 U	130 X	720 X	< 100 U	--	--
VOCs											
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 0.20 U	52	55	10	< 2.0 U	< 10 U	36	36	36
Tetrachloroethene (PCE)	ug/L	5	1.4	< 0.80 U	< 1.0 U	< 0.40 U	< 2.0 U	< 10 U	< 0.20 U	< 0.20 U	< 0.40 U
Trichloroethene (TCE)	ug/L	5	< 0.20 U	4.8	3.9	0.84	< 2.0 U	< 10 U	< 0.20 U	0.22	< 0.40 U
Vinyl Chloride	ug/L	0.2	< 0.20 U	2.5	3.4	0.82	< 2.0 U	< 10 U	31	9.6	6.9
Field Parameters											
Temperature	deg C		15.7	23.3	15.6	13	17.9	10.3	16.7	16.3	19.4
Specific Conductance	uS/cm		536.4	579	605.8	784	628	986	918	815	1116
Dissolved Oxygen	mg/L		0.51	0.32	5.14	1.5	0.9	0.6	1.15	0.33	0.47
pH	pH units		6.25	6.31	6.26	6.44	5.42	6.56	6.68	6.75	6.56
Oxidation Reduction Potential	mV		69.4	117.5	68.5	28	35.1	39.9	-1.2	33.1	20.7
Turbidity	NTU		49.2	5.23	20.8	3.11	7.58	2.82	20.3	56.5	8.23

ERH - electrical resistance heating system
 Bold - detected
 Yellow Shaded - Detected result exceeded screening level
 Blue Shaded - Non-detected RL exceeded screening level
 U - Analyte not detected at or above Reporting Limit (RL) shown
 J - Result value estimated
 UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
 X - Chromatographic pattern does not match fuel standard used for quantitation

Table 3. Groundwater Analytical Results

Project No. 060172, Spic'n Span Cleaners, Seattle, Washington

Analyte	Unit	Sample Event Site Groundwater Cleanup Level (ug/L)	Baseline	ERH Operation	Post-ERH Operation	Baseline	Post-ERH Operation	Post-ERH Operation	Post-ERH Operation
			MW-5R 11/20/2019 MW-5R-112019	MW-5R 12/16/2021 MW-5R-121621	MW-5R 06/22/2022 MW-5R-062222	MW-6 01/06/2020 MW-6-010620	MW-6 06/22/2022 MW-6-062222	MW-7 06/22/2022 MW-7-062222	MW-8 06/22/2022 MW-8-062222
TPHs									
Gasoline Range Organics	ug/L	1000	< 100 U	--	--	< 100 U	--	--	--
VOCs									
cis-1,2-Dichloroethene (cDCE)	ug/L	16	6.1	< 0.80 U	< 0.20 U	0.53	0.31	< 0.20 U	< 0.20 U
Tetrachloroethene (PCE)	ug/L	5	< 0.20 U	< 0.80 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Trichloroethene (TCE)	ug/L	5	< 0.20 U	< 0.80 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Vinyl Chloride	ug/L	0.2	2.8	< 0.80 U	< 0.20 U	1.2	0.63	< 0.20 U	< 0.20 U
Field Parameters									
Temperature	deg C		15.7	--	27.3	16.5	16.5	15.7	17.2
Specific Conductance	uS/cm		961	--	1228	917	733	1166	1380
Dissolved Oxygen	mg/L		0.38	--	0.13	0.51	0.13	0.56	0.58
pH	pH units		6.64	--	6.62	6.79	6.75	6.61	6.74
Oxidation Reduction Potential	mV		31.2	--	-26	-7.00	55.2	-40.3	-67.7
Turbidity	NTU		4.11	--	4.63	7.00	16.7	64.2	5.72

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Table 3. Groundwater Analytical Results

Project No. 060172, Spic'n Span Cleaners, Seattle, Washington

Analyte	Unit	Sample Event Site Groundwater Cleanup Level (ug/L)	Post-ERH Operation	Baseline	ERH Operation		Post-ERH Operation	Baseline	ERH Operation		Post-ERH Operation
			MW-9 06/22/2022 MW-9-062222	MW-10 11/20/2019 MW-10-112019	MW-10 01/12/2022 MW-10-011222	MW-10 01/26/2022 MW-10-012622	MW-10 06/21/2022 MW-10-062122	MW-11 11/20/2019 MW-11-112019	MW-11 12/02/2021 MW-11-120221	MW-11 12/16/2021 MW-11-121621	MW-11 06/21/2022 MW-11-062122
TPHs											
Gasoline Range Organics	ug/L	1000	--	110	< 100 U	--	< 500 U	< 100 U	--	--	--
VOCs											
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 0.20 U	38	32	44	2.8	5.8	7.3	2.5 J	0.32
Tetrachloroethene (PCE)	ug/L	5	< 0.20 U	1.5	4	< 4.0 U	< 1.0 U	11	6.5	2.5 J	0.26
Trichloroethene (TCE)	ug/L	5	< 0.20 U	2.2	5.6	< 4.0 U	< 1.0 U	2.5	5.7	2.1 J	0.36
Vinyl Chloride	ug/L	0.2	< 0.20 U	1.4	< 2.0 U	< 4.0 U	< 1.0 U	< 0.20 U	< 2.0 U	< 2.0 UJ	< 0.20 U
Field Parameters											
Temperature	deg C		16.3	15.2	33.7	38.8	13.6	14.6	41.3	--	15.6
Specific Conductance	uS/cm		683	647	401.6	574	999	645	907	--	434
Dissolved Oxygen	mg/L		1.14	0.29	0.39	1.11	0.33	0.5	2.18	--	0.5
pH	pH units		6.7	6.54	5.77	5.99	6.65	6.32	6.04	--	6.28
Oxidation Reduction Potential	mV		8.8	39.1	-15	65.6	-8.1	31.8	-12.4	--	-29.3
Turbidity	NTU		3.95	6.49	2.35	7.15	5.07	8.02	7.89	--	2.65

ERH - electrical resistance heating system
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 X - Chromatographic pattern does not match fuel standard used for quantitation

Table 3. Groundwater Analytical Results

Project No. 060172, Spic'n Span Cleaners, Seattle, Washington

Analyte	Unit	Sample Event Site Groundwater Cleanup Level (ug/L)	Baseline	ERH Operation		Post-ERH Operation	ERH Operation	Post-ERH Operation
			MW-12 11/20/2019 MW-12-112019	MW-12 12/02/2021 MW-12-120221	MW-12 12/16/2021 MW-12-121621	MW-12 06/21/2022 MW-12-062122	VE-1R 01/12/2022 VE-1R-011222	VE-1R 06/21/2022 VE-1R-062122
TPHs								
Gasoline Range Organics	ug/L	1000	< 100 U	--	--	--	180 X	< 500 U
VOCs								
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 0.20 U	< 0.20 U	< 0.40 UJ	< 0.20 U	< 2.0 U	0.58
Tetrachloroethene (PCE)	ug/L	5	3.2	22	3.9 J	2.1	< 2.0 U	< 0.40 U
Trichloroethene (TCE)	ug/L	5	< 0.20 U	0.51	< 0.40 UJ	< 0.20 U	< 2.0 U	< 0.40 U
Vinyl Chloride	ug/L	0.2	< 0.20 U	< 0.20 U	< 0.40 UJ	< 0.20 U	< 2.0 U	< 0.40 U
Field Parameters								
Temperature	deg C		15.3	23.4	--	18	54	15.7
Specific Conductance	uS/cm		663	689	--	709	435	536.4
Dissolved Oxygen	mg/L		1.32	1.09	--	6.9	0.11	0.51
pH	pH units		6.26	5.83	--	6.28	6.32	6.45
Oxidation Reduction Potential	mV		38.4	-2.7	--	16.3	-134.9	-4
Turbidity	NTU		10.2	4.1	--	5.99	1.82	76.9

ERH - electrical resistance heating system
 Bold - detected
 Yellow Shaded - Detected result exceeded screening level
 Blue Shaded - Non-detected RL exceeded screening level
 U - Analyte not detected at or above Reporting Limit (RL) shown
 J - Result value estimated
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Table 5. Soil Analytical Results

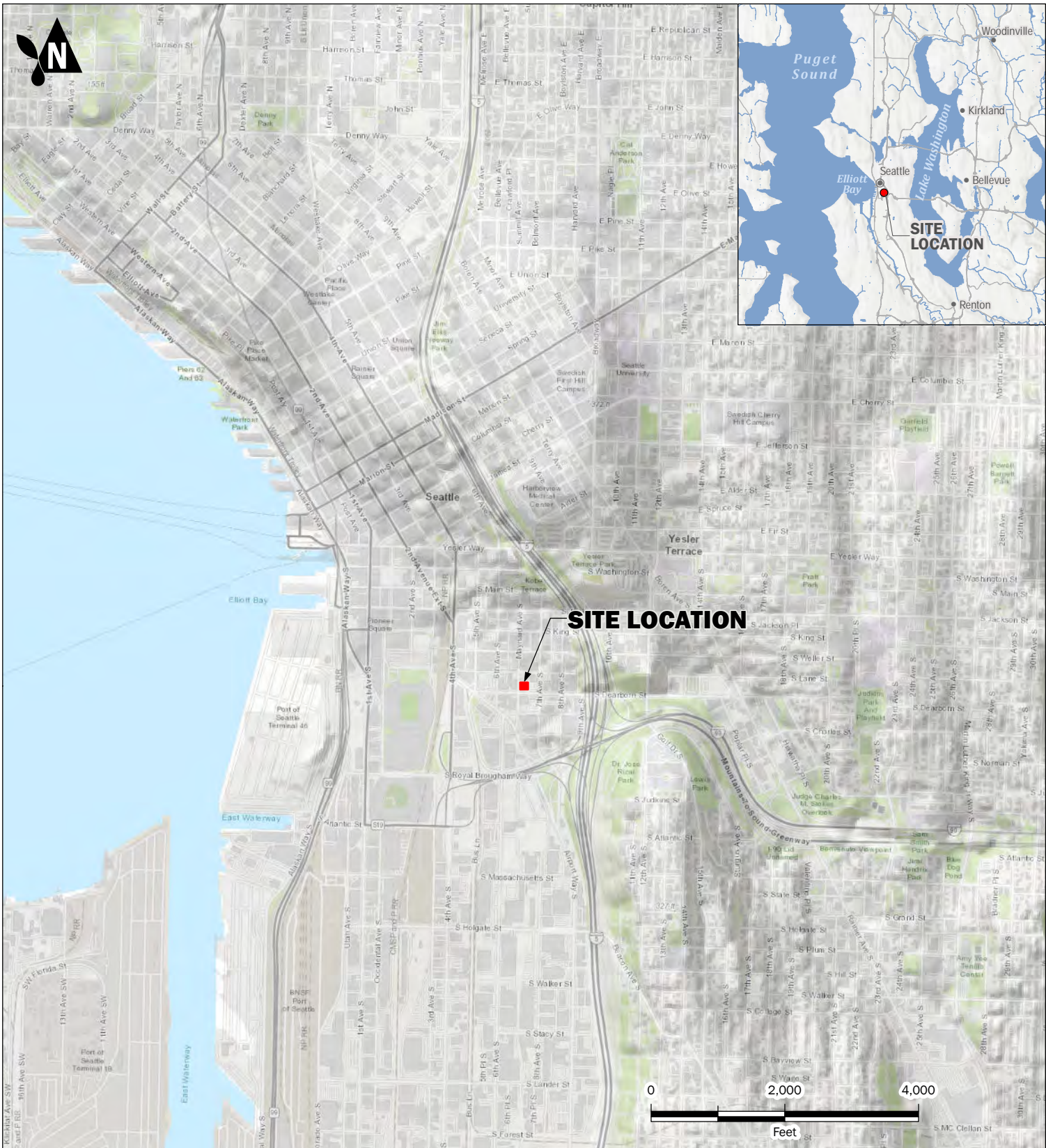
Project No. 060172, Spic'n Span Cleaners, Seattle, Washington

Sample Location	Sample Event	Sample Date	Depth	Gasoline Range TPH mg/kg	Perchloroethene (PCE) mg/kg	Trichloroethene (TCE) mg/kg	cis-1,2-Dichloroethene (cis-DCE) mg/kg	Vinyl Chloride mg/kg
Site Soil Cleanup Level				97	0.15	0.066	0.12	0.05
CB-01	1	11/18/2021	7 ft	< 6.2 U	0.0040	< 0.00088 U	< 0.00088 U	< 0.00088 U
		11/18/2021	13 ft	< 8.7 U	0.089	0.017	< 0.0019 U	< 0.0019 U
		11/18/2021	19 ft	< 10 U	0.030	0.0049	< 0.0013 U	< 0.0013 U
		11/18/2021	23 ft	< 5.0 U	< 0.00086 U	< 0.00086 U	< 0.00086 U	< 0.00086 U
CB-02	1	11/18/2021	8 ft	< 7.2 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0011 U
		11/18/2021	13 ft	< 7.7 U	0.0070	< 0.0010 U	< 0.0010 U	< 0.0010 U
		11/18/2021	21 ft	< 6.1 U	0.016	< 0.00099 U	< 0.00099 U	< 0.00099 U
		11/18/2021	22 ft	< 4.5 U	< 0.00080 U	< 0.00080 U	< 0.00080 U	< 0.00080 U
		12/3/2021	3 ft	< 5.1 U	0.2	0.012	< 0.00090 U	< 0.00090 U
		12/3/2021	18 ft	< 6.6 U	< 0.00092 U	< 0.00092 U	< 0.00092 U	< 0.00092 U
CB-03	1	11/18/2021	7 ft	< 10 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U
		11/18/2021	8 ft	< 7.2 U	< 0.0013 U	< 0.0013 U	< 0.0013 U	< 0.0013 U
		11/18/2021	21 ft	< 5.5 U	< 0.00073 U	< 0.00073 U	< 0.00073 U	< 0.00073 U
		11/18/2021	26 ft	< 4.9 U	< 0.00091 U	< 0.00091 U	< 0.00091 U	< 0.00091 U
CB-04	1	11/18/2021	8.5 ft	< 6.1 U	< 0.0015 U	< 0.0015 U	< 0.0015 U	< 0.0015 U
		11/18/2021	13 ft	< 6.5 U	0.0021	< 0.0010 U	< 0.0010 U	< 0.0010 U
		11/18/2021	15 ft	< 8.5 U	0.016	0.0016	< 0.0012 U	< 0.0012 U
		11/18/2021	23.5 ft	< 7.6 U	< 0.0013 U	< 0.0013 U	< 0.0013 U	< 0.0013 U
		11/18/2021	26.5 ft	< 8.0 U	< 0.0014 U	< 0.0014 U	< 0.0014 U	< 0.0014 U
		12/3/2021	6 ft	< 5.7 U	0.0076	0.002	< 0.0012 U	< 0.0012 U
CB-05	1	11/18/2021	7 ft	< 7.8 U	0.03	0.0038	0.0025	< 0.0013 U
		11/18/2021	12 ft	< 7.4 U	0.069	0.0028	< 0.0018 U	< 0.0018 U
		11/18/2021	18 ft	< 5.4 U	< 0.0013 U	< 0.0013 U	< 0.0013 U	< 0.0013 U
		11/18/2021	27.5 ft	< 4.8 U	0.0016	< 0.00084 U	< 0.00084 U	< 0.00084 U
CB-06	1	11/22/2021	5 ft	< 6.6 U	< 0.0013 U	< 0.0013 U	< 0.0013 U	< 0.0013 U
		11/22/2021	8 ft	< 6.8 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U
		11/22/2021	15 ft	< 6.8 U	< 0.00095 U	< 0.00095 U	< 0.00095 U	< 0.00095 U
		11/22/2021	21 ft	< 8.3 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U
	2	1/11/2022	21.5 ft	--	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U
CB-07	1	11/22/2021	5 ft	< 5.6 U	0.0019	< 0.0012 U	< 0.0012 U	< 0.0012 U
		11/22/2021	10.5 ft	< 7.4 U	0.0029	< 0.0014 U	< 0.0014 U	< 0.0014 U
		11/23/2021	17 ft	--	0.0066	0.0011	< 0.0011 U	< 0.0011 U
	2	1/11/2022	13.5 ft	--	0.014	< 0.0011 U	< 0.0011 U	< 0.0011 U
		1/11/2022	17 ft	--	0.0013	< 0.0012 U	< 0.0012 U	< 0.0012 U
		1/11/2022	26 ft	--	0.0016	< 0.00097 U	0.0023	< 0.00097 U
CB-08	1	11/22/2021	3 ft	8.6	0.0016	< 0.0011 U	< 0.0011 U	< 0.0011 U
		11/22/2021	10 ft	< 7.1 U	0.0033	< 0.0014 U	< 0.0014 U	< 0.0014 U
	2	1/10/2022	19 ft	< 8.3 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U
		1/10/2022	27 ft	< 5.0 U	< 0.00097 U	< 0.00097 U	< 0.00097 U	< 0.00097 U
CB-09	1	11/23/2021	5 ft	< 5.1 U	< 0.00095 U	< 0.00095 U	< 0.00095 U	< 0.00095 U
		11/23/2021	13 ft	< 6.7 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0011 U
		11/23/2021	18 ft	< 8.3 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U
		11/23/2021	22 ft	7.7	< 0.0013 U	< 0.0013 U	< 0.0013 U	< 0.0013 U
CB-10	1	11/22/2021	6 ft	< 6.0 U	0.14	0.0079	0.0013	< 0.00095 U
		11/22/2021	13 ft	< 8.1 U	< 0.0014 U	< 0.0014 U	< 0.0014 U	< 0.0014 U
		11/22/2021	16 ft	< 8.4 U	< 0.0015 U	< 0.0015 U	< 0.0015 U	< 0.0015 U
		11/22/2021	23.5 ft	< 6.9 U	0.0019	< 0.0015 U	< 0.0015 U	< 0.0015 U
CB-11	1	11/23/2021	5 ft	< 5.0 U	< 0.00095 U	< 0.00095 U	< 0.00095 U	< 0.00095 U
		11/23/2021	8.5 ft	< 6.4 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0011 U
	2	1/12/2022	20 ft	8.1	< 0.00060 U	< 0.00060 U	< 0.00060 U	< 0.00060 U
		1/12/2022	24 ft	< 4.8 U	< 0.0015 U	< 0.0015 U	< 0.0015 U	< 0.0015 U
CB-12	1	11/19/2021	5 ft	< 5.1 U	0.0019	< 0.00091 U	< 0.00091 U	< 0.00091 U
		11/19/2021	13 ft	< 4.7 U	< 0.00082 U	< 0.00082 U	< 0.00082 U	< 0.00082 U
		11/19/2021	17 ft	< 8.0 U	0.0018	< 0.0014 U	< 0.0014 U	< 0.0014 U
		11/19/2021	22 ft	< 5.4 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0011 U
CB-13	1	11/19/2021	5 ft	< 6.2 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0011 U
		11/19/2021	8 ft	< 5.6 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0011 U
		11/19/2021	16 ft	< 6.5 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0011 U
		11/19/2021	20 ft	< 6.5 U	0.0013	< 0.00092 U	< 0.00092 U	< 0.00092 U
	2	1/10/2022	22.5 ft	--	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U
CB-14	1	11/19/2021	6 ft	< 7.5 U	0.0025	< 0.0012 U	< 0.0012 U	< 0.0012 U
		11/19/2021	13 ft	< 6.6 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0011 U
		11/19/2021	21 ft	310	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U
		11/19/2021	22 ft	580	< 0.0014 U	< 0.0014 U	< 0.0014 U	< 0.0014 U
	2	1/10/2022	15.5 ft	< 5.4 U	--	--	--	--
		1/10/2022	20 ft	< 5.8 U	--	--	--	--
		1/10/2022	22.5 ft	< 6.4 U	--	--	--	--

Notes

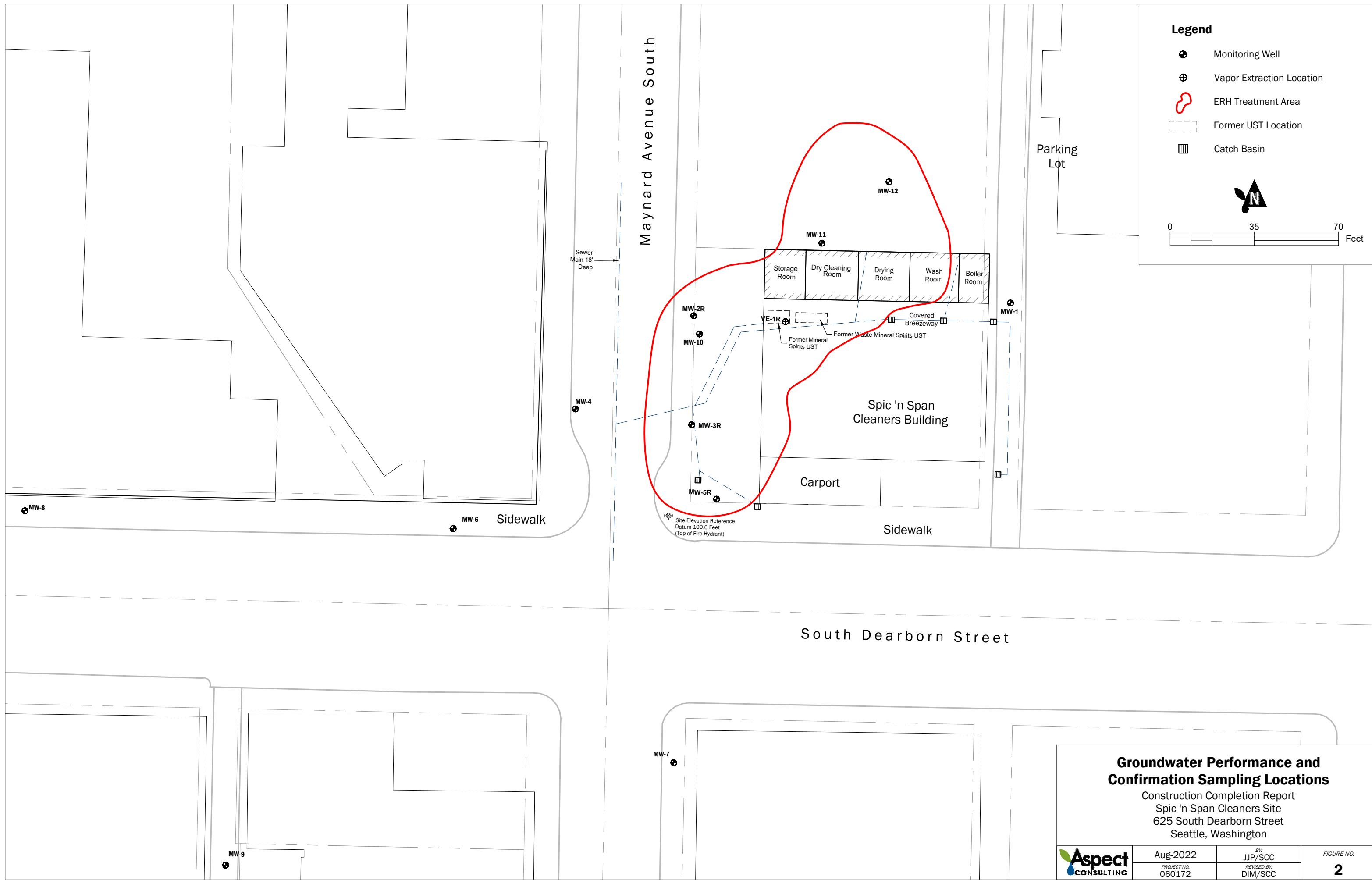
- ft - Feet
- mg/kg - milligrams/kilogram
- Bold** - Analyte was detected above the laboratory reporting limit.
- Blue Shaded** - Detected concentration exceeds the Site groundwater cleanup levels
- U** - Analyte was not detected at or above Reporting Limit (RL) shown
- - not tested
- green italics* - data superseded by subsequent sampling of the same interval.
- Sample depths from January 2022 were corrected and are not accurately reflected in the sample names.

FIGURES



Site Location Map
 Construction Completion Report
 Spic 'n Span Cleaners Site
 625 South Dearborn Street
 Seattle, Washington

	AUG-2022	BY: DIM / SCC	FIGURE NO. 1
	PROJECT NO. 060172	REVISED BY: ---	



Legend

- Monitoring Well
- Vapor Extraction Location
- ERH Treatment Area
- Former UST Location
- Catch Basin

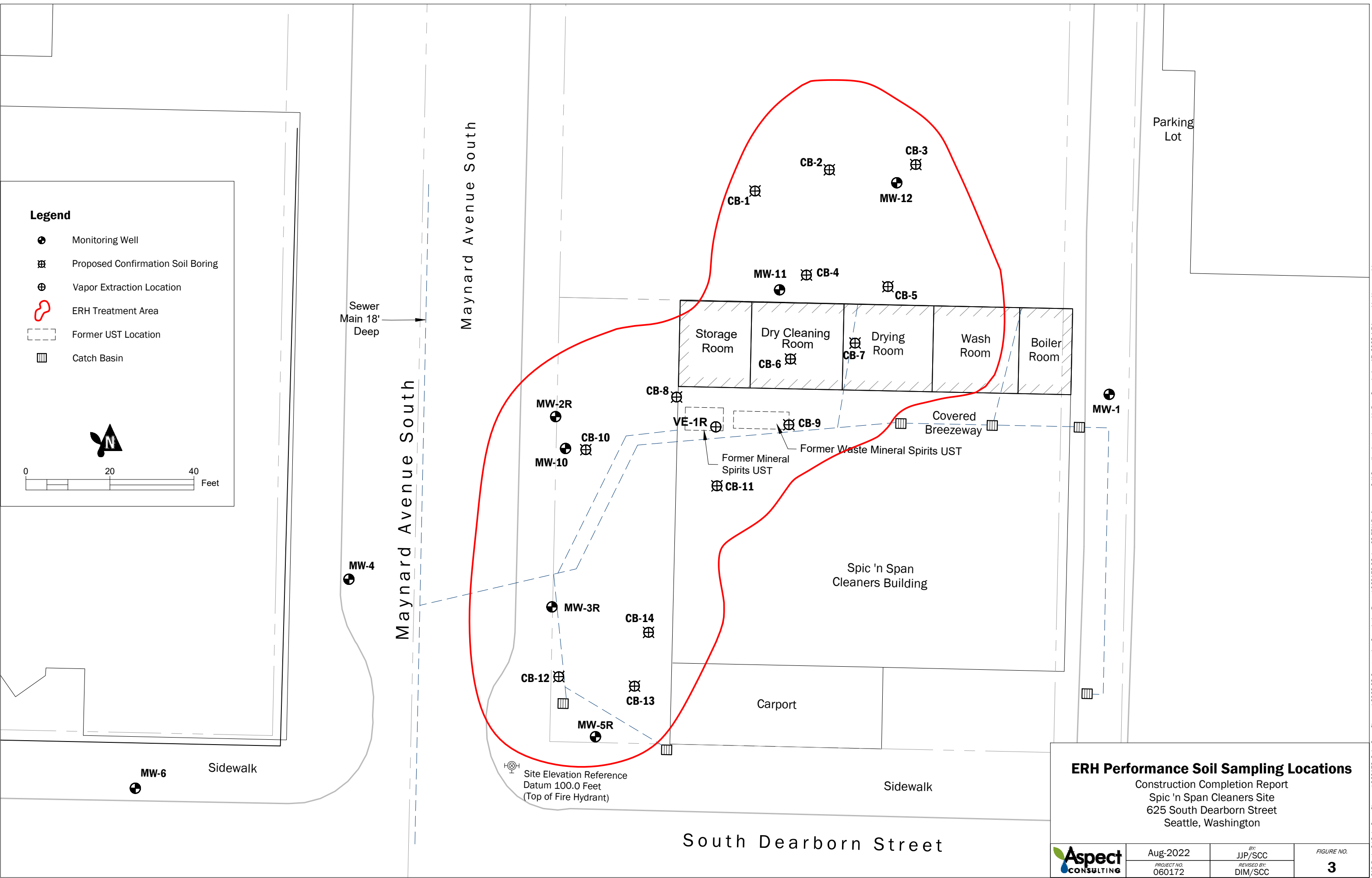
0 35 70 Feet

Groundwater Performance and Confirmation Sampling Locations

Construction Completion Report
 Spic 'n Span Cleaners Site
 625 South Dearborn Street
 Seattle, Washington

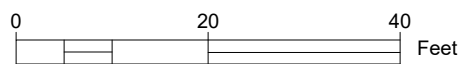
	Aug-2022	BY: JJP/SCC	FIGURE NO. 2
	PROJECT NO. 060172	REVISED BY: DIM/SCC	

CAD Path: Q:\SpicnSpan Cleaners\060172 SpicnSpan Cleaners\2022-08 Construction Completion Report\060172-02.dwg 02 GW Performance & Confirmation Sampling Locations || Date Saved: Aug 17, 2022 1:46pm || User: scudd



Legend

- Monitoring Well
- Proposed Confirmation Soil Boring
- Vapor Extraction Location
- ERH Treatment Area
- Former UST Location
- Catch Basin



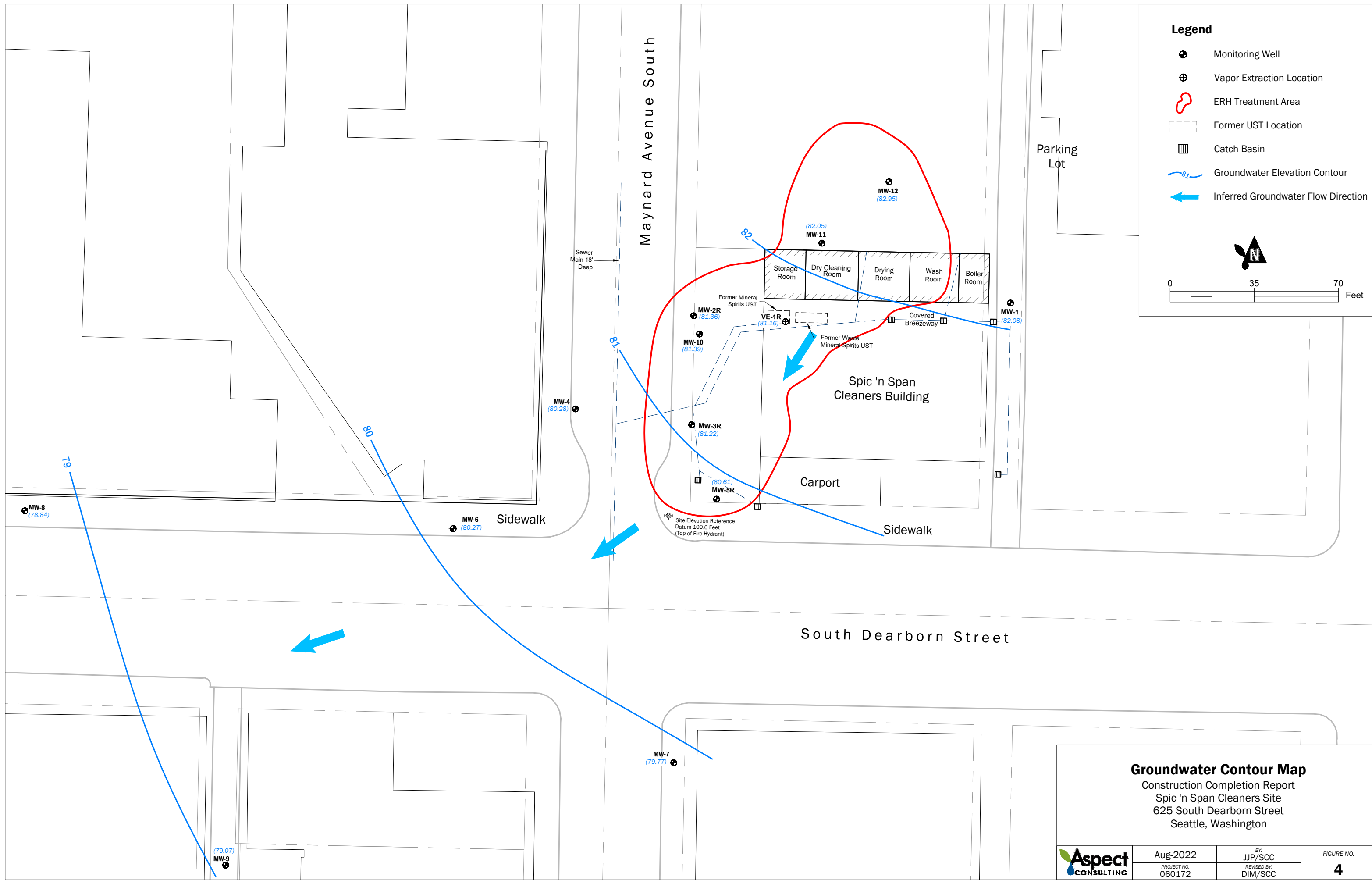
ERH Performance Soil Sampling Locations

Construction Completion Report
 Spic 'n Span Cleaners Site
 625 South Dearborn Street
 Seattle, Washington



Aug-2022	BY: JJP/SCC	FIGURE NO. 3
PROJECT NO. 060172	REVISED BY: DIM/SCC	

Site Elevation Reference
 Datum 100.0 Feet
 (Top of Fire Hydrant)

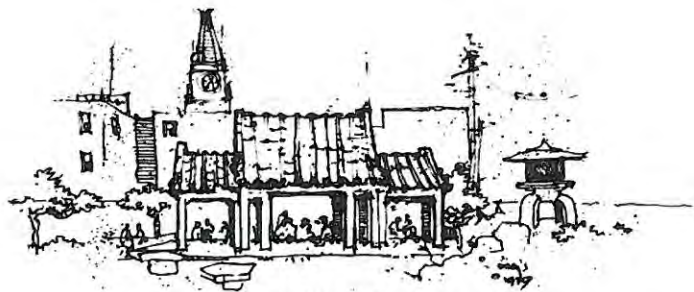


Groundwater Contour Map
 Construction Completion Report
 Spic 'n Span Cleaners Site
 625 South Dearborn Street
 Seattle, Washington

	Aug-2022	BY: JJP/SCC	FIGURE NO. 4
	PROJECT NO. 060172	REVISED BY: DIM/SCC	

APPENDIX A

Permits and Approvals



The City of Seattle

International Special Review District

Mailing Address: PO Box 94649, Seattle WA 98124-4649
Street Address: 600 4th Avenue, 4th Floor

SEPA: This action is
categorically exempt
from SEPA pursuant to
WAC 197-11-800

ISRD 280/18

CERTIFICATE OF APPROVAL

DATE: December 17, 2018

APPLICANT: Jeremy Porter
Aspect Consulting
401 Second Ave. S. #201
Seattle, WA 98104

WORK LOCATION: 652 S. Dearborn St.

TYPE OF WORK PROPOSED: Site alterations

The International Special Review District Board recommends approval of an application for:

Site alterations: Remediation/clean-up (via electrical resistance heating – ERH) of soil and groundwater contamination, including installation of treatment equipment and the erection of an 8' tall vinyl-coated chain link fence around the site. Work includes installation of motion-sensor lights along the fence. The contractors will be working with Urban Artworks to create a mural that will be attached to the fence to serve as screening and pedestrian activation.

See the attached plans, photographs, paint chip and lighting specifications.

As a condition of this approval, the applicant shall submit the final design or mock up of the mural to the ISRD Coordinator prior to installation.

This recommendation is based on the presentation to the Board at the meeting of December 11, 2018 and is supplemented with documentation from the files.

The International Special Review District Board considered the following Seattle Municipal Codes and District Design Guidelines when making the recommendation:

SMC 23.66.030 – Certificates of approval – Application, review and appeals
SMC 23.66.334 – Streets and Sidewalks

Secretary of the Interior's Standards #10

I concur with the Board's recommendations and hereby issue this Certificate of Approval pursuant to International Special Review District, SMC 23.66, as amended.

It is the applicant's responsibility to obtain all other permits and comply with other City or County regulations. *To obtain a permit for a sign, marquee or canopy, contact Steve Sampson, Seattle Department of Construction and Inspections at 206-684-8419. To obtain a Street Use Permit, contact Seattle Department of Transportation Public Space Management, at 206-684-5267.*

Andrés Mantilla, Director
Department of Neighborhoods

By: 
Rebecca Frestedt
Board Coordinator

cc: ISRD Board Chair Audra Brecher, SDOT
Nathan Torgelson, SDCI Case file
Maria Cruz, SDCI Log

NOTICE TO APPLICANT: Work must occur exactly according to approved plans and specifications. ANY revisions, omissions and/or additions to plans and specifications must be reviewed and approved by the International Special Review District Board prior to implementation.

APPEAL PROCEDURE: Any interested person may appeal the above decision to the City Hearing Examiner. The appeal and a copy of this decision must be filed with the Hearing Examiner, 700 5th Avenue, Suite 4000, Seattle, WA 98124 before 5:00 p.m. on the fourteenth (14th) day following the date of issuance of this certificate, and must be accompanied by an \$85.00 filing fee in the form of a check payable to the City Treasurer. Appeals must be in writing and must clearly state objections to the decision. A copy of the appeal shall also be served upon the Department of Neighborhoods Director, City Hall, 600 4th Avenue, 4th fl, Seattle, Washington 98124-4649.

EXPIRATION OF CERTIFICATES OF APPROVAL: Certificates of Approval shall expire eighteen months from the date of issuance unless the Department of Neighborhoods Director determines that extenuating circumstances justify extension of the expiration date. Form Revised February 2016

ATTACHMENT B

Project Description

SPECIAL DISTRICT AND LANDMARK REVIEW	
THIS PAGE	APPROVED
<u>1/43</u>	APPROVED W/CONDITIONS <input checked="" type="checkbox"/>
INITIALS <u>RF</u>	NOT APPLICABLE
	DATE <u>12/17/18</u>

SPECIAL DISTRICT AND LANDMARK REVIEW	
PROPERTY OR DISTRICT	<u>652 S. Dearborn St</u> <u>International Sp. Review</u>
CHANGE OF USE	LOG # <u>ISPD 200/18</u>
<input checked="" type="checkbox"/> ST. USE	DATE <u>12/17/18</u>
<input checked="" type="checkbox"/> EXT. DESIGN	STAFF <u>RF</u>
INT. DESIGN	PHONE _____
COMMENTS ON PAGES:	

SPECIAL DISTRICT AND LANDMARK REVIEW			
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2/43		NOT APPLICABLE	
INITIALS	KP	DATE	12/17/18

Spic'n Span Cleaners Remediation Project

This project addresses soil and groundwater contamination associated with Spic'n Span Cleaners, located at 652 S. Dearborn Street (Spic'n Span Property). Years of dry cleaner operation on the property have resulted in PCE and mineral spirits released into the soil and groundwater beneath the building. The contaminants have migrated beneath the neighboring property to the north, which is currently a parking lot owned by KeyBank (KeyBank Property), and also to the southeast into the Maynard Avenue South right-of-way. The purpose of the project is to remove subsurface contamination in order to comply with Department of Ecology requirements for cleanup. Cleanup will also facilitate future redevelopment of the Spic'n Span Property.

The technology that will be used to remediate the site is called electrical resistance heating (ERH). ERH is a process whereby soils and groundwater are heated by passing an electrical current through the subsurface, which increases the temperature to an average of 90°C (just below the boiling point of water). The contaminants will be volatilized, and vapor recovery wells will capture steam and contaminant vapor for treatment above ground. Above-ground treatment will include separation of the water from the vapor stream and treatment of both vapor and water with granular activated carbon. Water will be treated and discharged to the sanitary sewer under a King County sewer discharge authorization. The Puget Sound Clean Air Agency has determined that this project is exempt from treatment, however, to minimize odor concerns to the neighboring community, air will be treated and discharged. The activated carbon will either be regenerated or disposed of at an off-site facility.

During installation and operation of the ERH treatment system, the Spic'n Span property will remain vacant and a temporary 8-foot fence will be installed around the above-ground operating equipment (west and south of the existing building) for approximately 8 months. The fence will be constructed of vinyl-coated chain link with wooden fence posts spaced at 8 feet and secured in concrete footings. A fabric mural to cover the chain link will be provided by a community-based art group (Urban Artworks). There would be no alteration to the building to secure the fence. Fence posts will be secured with footings installed in the ground. Fencing examples and details are included in Attachment G. Motion-sensor lighting will be installed on the wooden fence posts at 8-foot spacing around the perimeter of the fence to prevent graffiti and vandalism, and specifications are included in Attachment H.

Above-ground equipment visible from the right-of-way includes the condenser and cooling towers, which are 17'6" feet tall, an 8'5" tall PCU with a 360-degree camera on a 11'4" mast, and a 20' stack (4" diameter PVC pipe) to release treated air. The other above-ground equipment (granular activated carbon vessels, blower, transformer) will not be visible behind the fence. A temporary utility pole will be installed outside of the fence near the southeast corner of the building to connect power to the transformer inside the fence.

At times, the sidewalk along Maynard Ave S and S Dearborn St will be blocked to install subsurface equipment and repair concrete or brick areas of the sidewalk disturbed during trenching. It is estimated the installation and resurfacing will take 6 weeks. After subsurface installation in the sidewalk, the area will be temporarily resurfaced with concrete for the treatment period. After the treatment and

cooldown period, the electrodes will be removed, and the brick pavers and concrete in the right-of-way of Maynard Ave S and S Dearborn St will be restored to their original condition. A street use permit will be obtained for work in the sidewalk. Other areas of the properties undergoing treatment will be available for normal use during operation. Monitoring to evaluate system performance and protectiveness will be conducted throughout the treatment period.

After treatment, a two-year cooldown and monitoring period will be conducted prior to final decommissioning of the subsurface components. During the cooldown and monitoring period, temporary fencing and above-ground equipment will be removed and the full site will be available for occupancy; however, if monitoring indicates additional treatment is needed, equipment and the fencing may be temporarily re-installed. After monitoring indicates the Department of Ecology's cleanup requirements are met, below-ground equipment will be decommissioned.

A general timeline of the project is as follows:

- Equipment Installation (Approximately 19 weeks from January 2019 through May 2019).
- System Startup (Approximately 2 weeks in May 2019).
- System Operation (Approximately 6 months from 2nd Quarter 2019 through 4th Quarter 2019).
- Cooldown and Monitoring (Approximately 2 years from 4th Quarter 2019 through 4th Quarter 2021).
- Decommissioning (Approximately 2 weeks during 1st Quarter 2022).

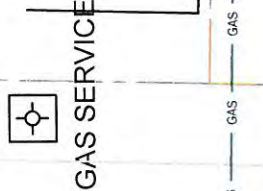
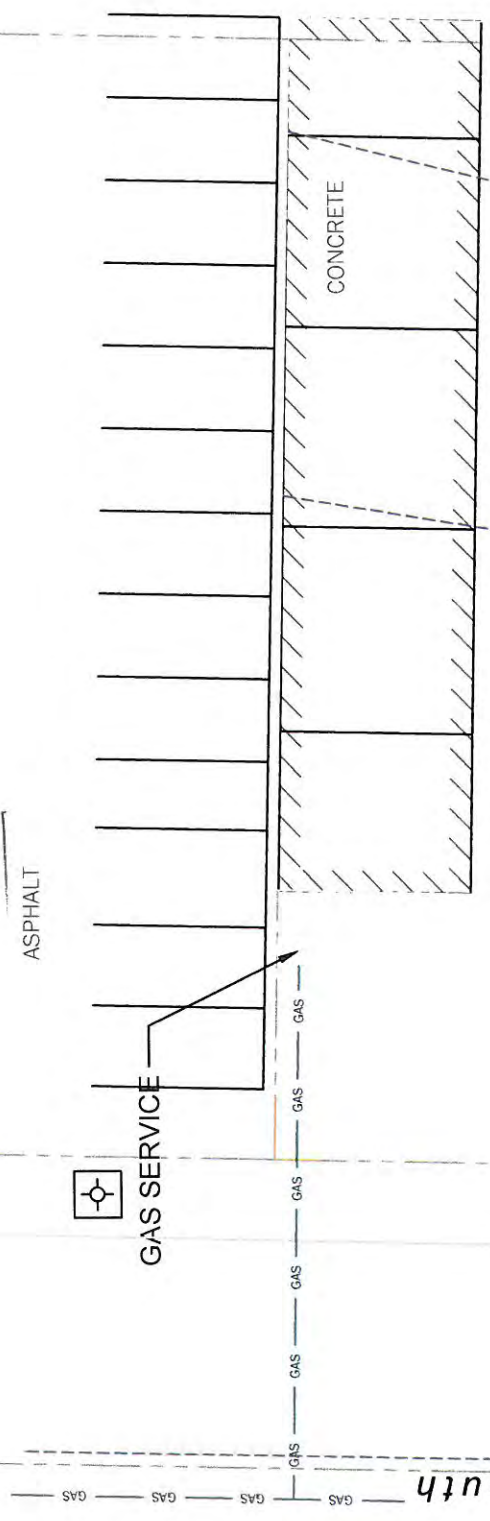
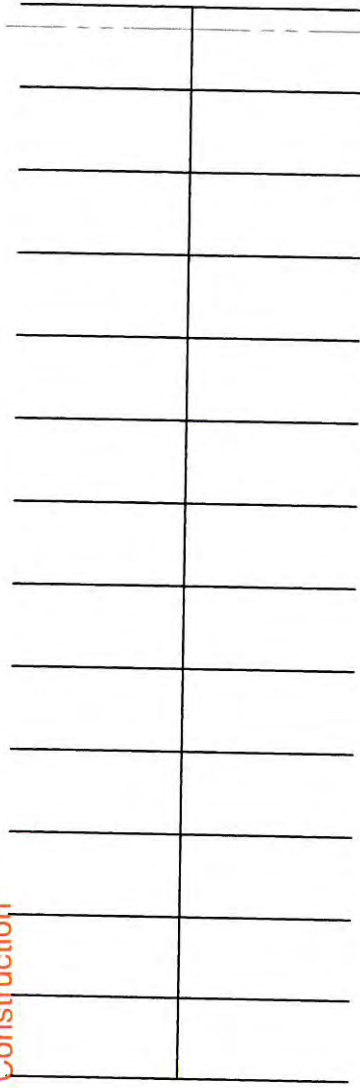
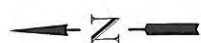
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INITIALS <i>rf</i>	DATE 12/17/18

ATTACHMENT C

Site Plans

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PRELIMINARY
Not Approved for Construction



Maynard Avenue South

South Dearborn Street

LEGEND

- STORM SEWER
- GAS
- SURFACE INSULATION
- ⊙ STREET LIGHT
- ⊕ FIRE HYDRANT
- ⊖ UTILITY POLE
- ⊘ SIGN
- ▭ BRICK AREA

5743
12/17/18
PF

LANDMARK REVIEW

EXISTING CONDITIONS

DATE

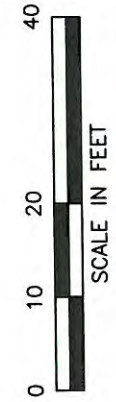
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TRS
Accelerating Value

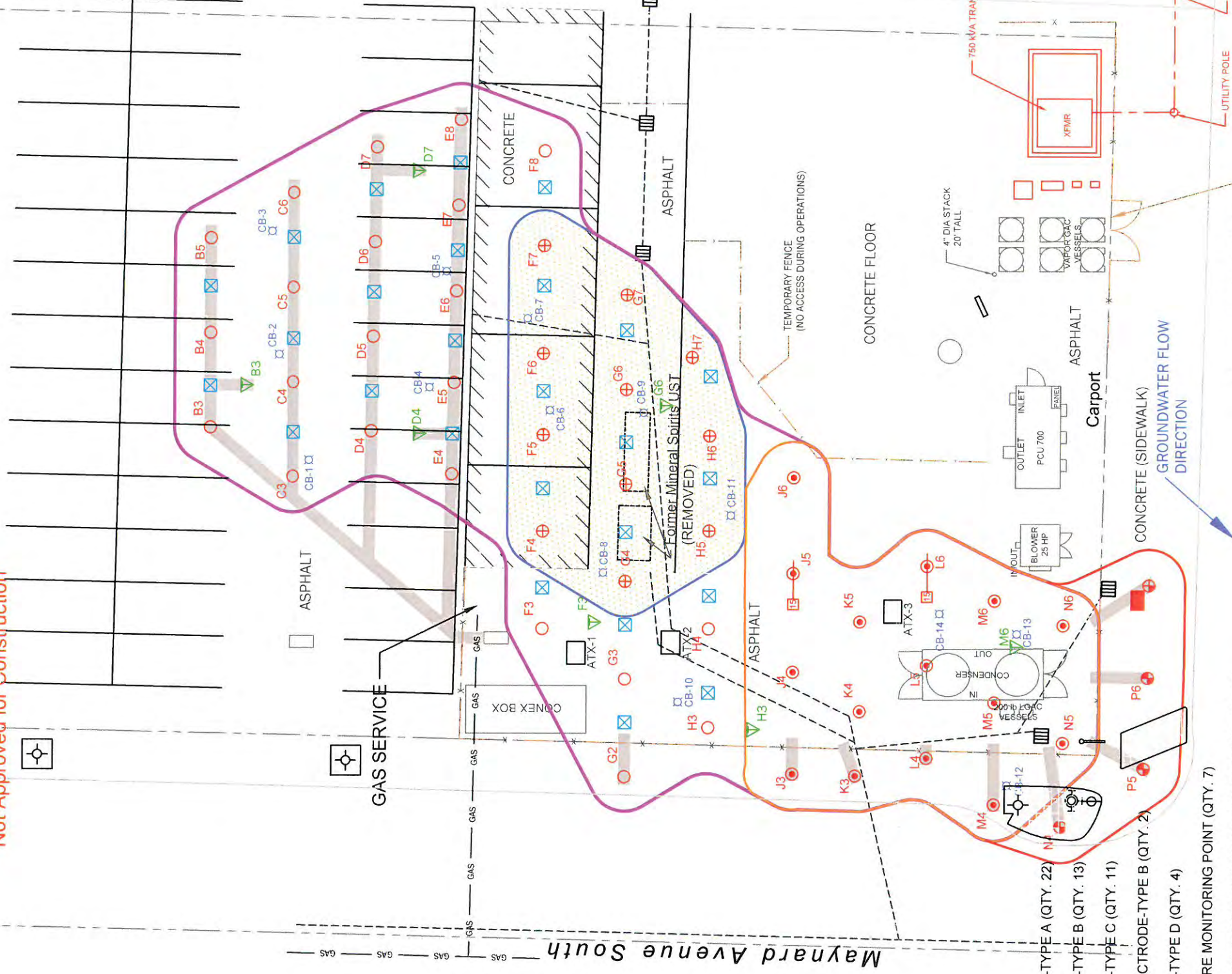
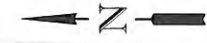
TRS GROUP, INC. 338 COMMERCE AVE., SUITE 304, LONGVIEW, WA 98832

DESIGNED BY D. SEILER	SITE SPIC N SPAN CLEANERS SITE	
DRAWN BY A. PEABODY	LOCATION SEATTLE, WASHINGTON	
CHECKED BY PENDING APPROVAL	CLIENT SPIC N SPAN	
PROJECT MANAGER J. ROOT	SITE PLAN WITH EXISTING CONDITIONS	
GSAT REVIEW xx/xx/xx		
APPROVED FOR CONSTRUCTION		DATE 2018-SEP-17
BY _____		PROJECT WA.SNS.1067
DATE _____		SHEET Y-1



PRELIMINARY

Not Approved for Construction



LEGEND

- B3 ○ ELECTRODE-TYPE A (QTY. 22)
- J4 ○ ELECTRODE-TYPE B (QTY. 13)
- F4 ⊕ ELECTRODE-TYPE C (QTY. 11)
- E3 ⊖ ANGLD ELECTRODE-TYPE B (QTY. 2)
- N4 ⊕ ELECTRODE-TYPE D (QTY. 4)
- E6 ▽ TEMPERATURE MONITORING POINT (QTY. 7)
- TRENCH (INDICATES BELOW GRADE COMPLETION) (475 LF)
- ⊠ VAPOR RECOVER POINT (QTY. 26)
- CONFIRMATION SOIL BORING
- TREATMENT AREA A DEPTH 4'-26" (4,778 SQ. FT.)
- TREATMENT AREA B DEPTH 6.5'-26" (2,682 SQ. FT.)
- TREATMENT AREA C DEPTH 1'-26" (2,081 SQ. FT.)
- TREATMENT AREA D DEPTH 10'-26" (810 SQ. FT.)
- - - STORM SEWER
- GAS
- GAS LINE
- SURFACE INSULATION
- ⊙ STREET LIGHT
- ⊕ FIRE HYDRANT
- ⊖ UTILITY POLE
- SIGN
- ▭ BRICK AREA

SPECIAL DISTRICT AND LANDMARK REVIEW

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DATE: 12/17/16

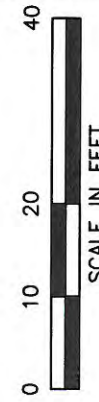
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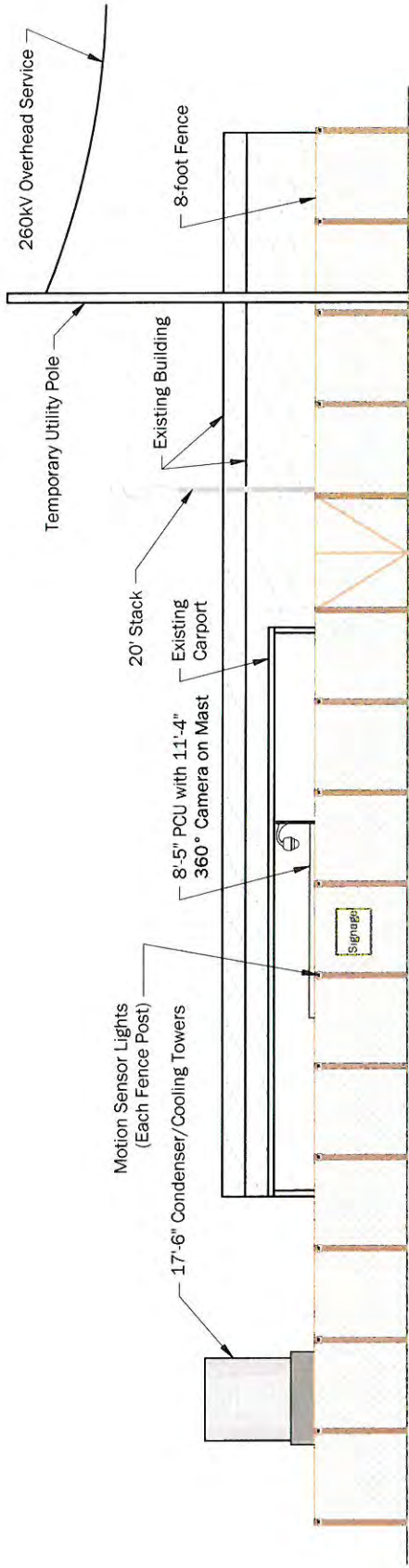
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DRAWN BY A. PEABODY	LOCATION SEATTLE, WASHINGTON	
CHECKED BY PENDING APPROVAL	CLIENT SPIC N SPAN	
PROJECT MANAGER J. ROOT	SITE PLAN WITH ELECTRODES	
DATE xx/xx/xx		
APPROVED FOR CONSTRUCTION BY _____	DATE 2018 SEP. 17	PROJECT WA.SNS.1067
DATE _____	SHEET Y-1	

ATTACHMENT D

Scale Drawings

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South Elevation
(South Dearborn Street)

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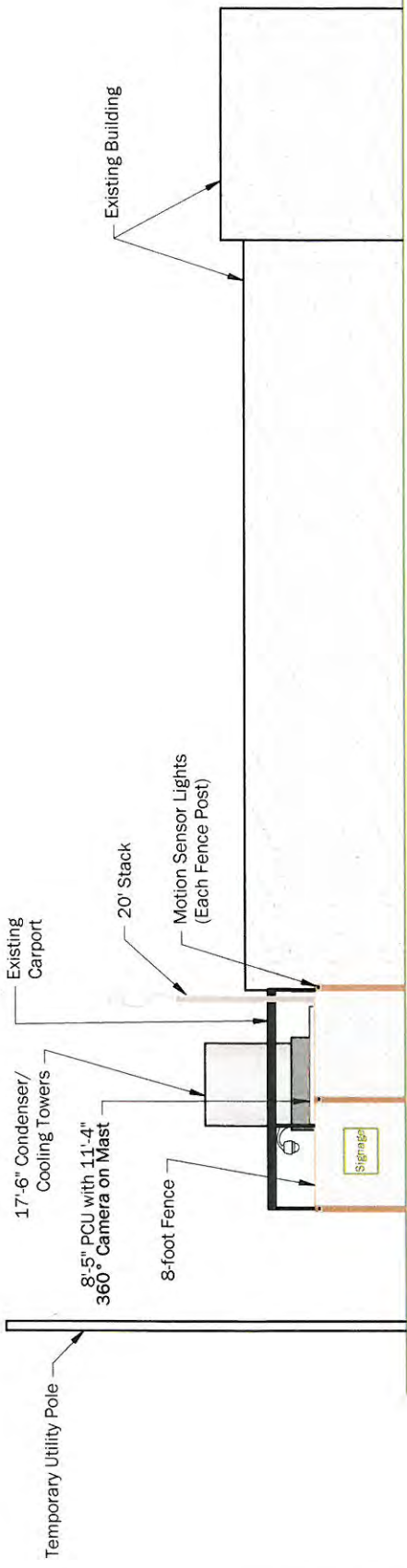
South Elevation View
Spic 'n Span Cleaners
International Special Review District Board Application
Seattle, Washington



Jun-2018
PROJECT NO.
060172

BY
DIM/CMV
REVISED BY

FIGURE NO.
1



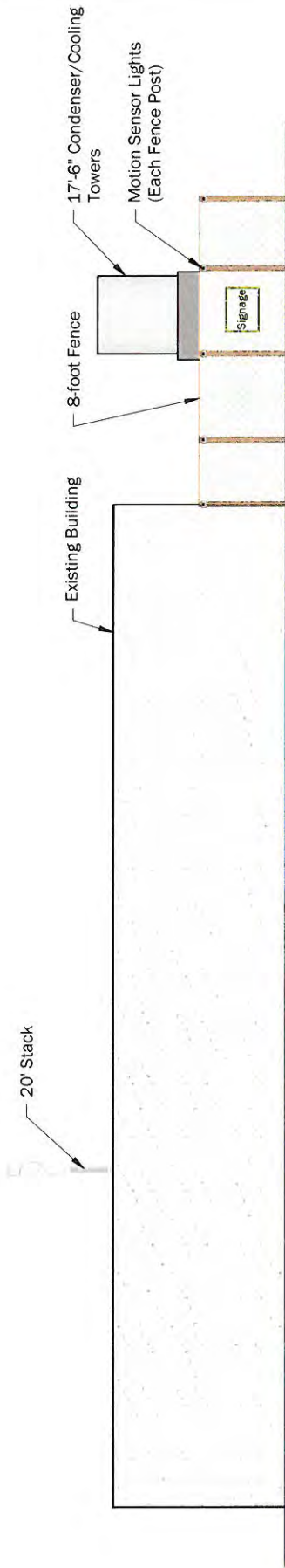
East Elevation
(Alley)

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2/1/18



East Elevation View
 Spic 'n Span Cleaners
 International Special Review District Board Application
 Seattle, Washington

	Jun-2018 <small>PROJECT NO</small> 060172	BY DIM/CMV REVISIONS REVISIONS BY	FIGURE NO. 2
	ASPECT CONSULTING		



North Elevation

SPECIAL PROJECT AND LANDMARK REVIEW

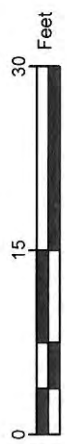
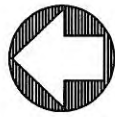
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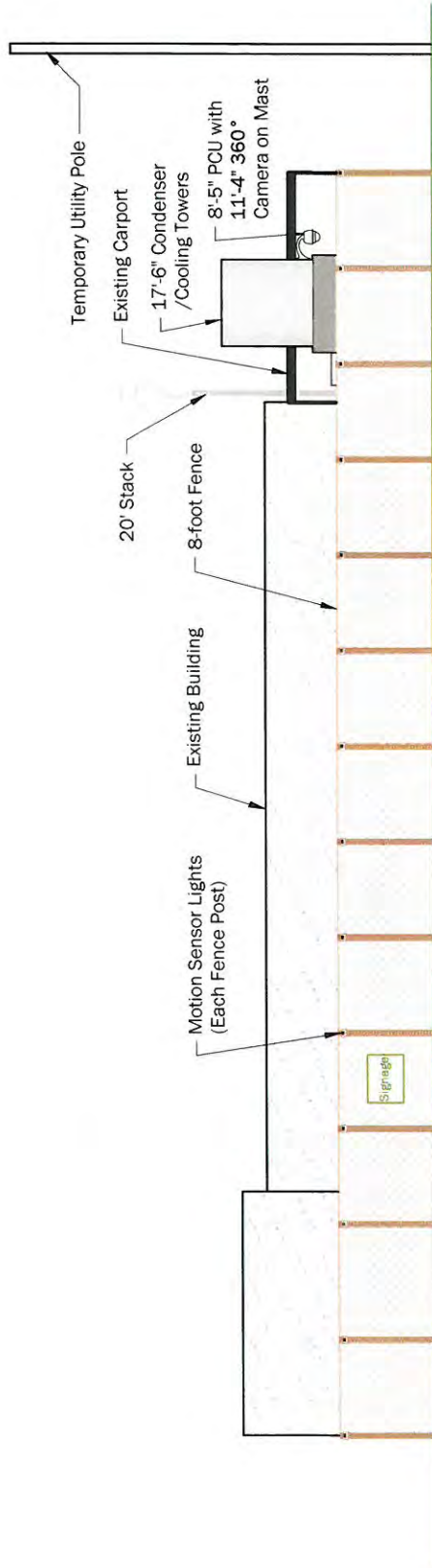
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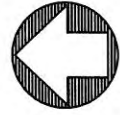
North Elevation View
 Spic 'n Span Cleaners
 International Special Review District Board Application
 Seattle, Washington

	Jun-2018 <small>PROJECT NO</small> 060172	<small>BY</small> DIM/CMV <small>REVISED BY</small> -	<small>FIGURE NO.</small> 3
	<small>CAD Path: Q:\SpicnSpan Cleaners\060172 SpicnSpan Cleaners\2018-06 Permit figures\060172-02.dwg North Elevation Date Saved: Jun 07, 2018 10:33am User: cvanslyke</small>		



West Elevation
(Maynard Avenue South)

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West Elevation View
 Spic 'n Span Cleaners
 International Special Review District Board Application
 Seattle, Washington



Jun-2018
 PROJECT NO.
 060172

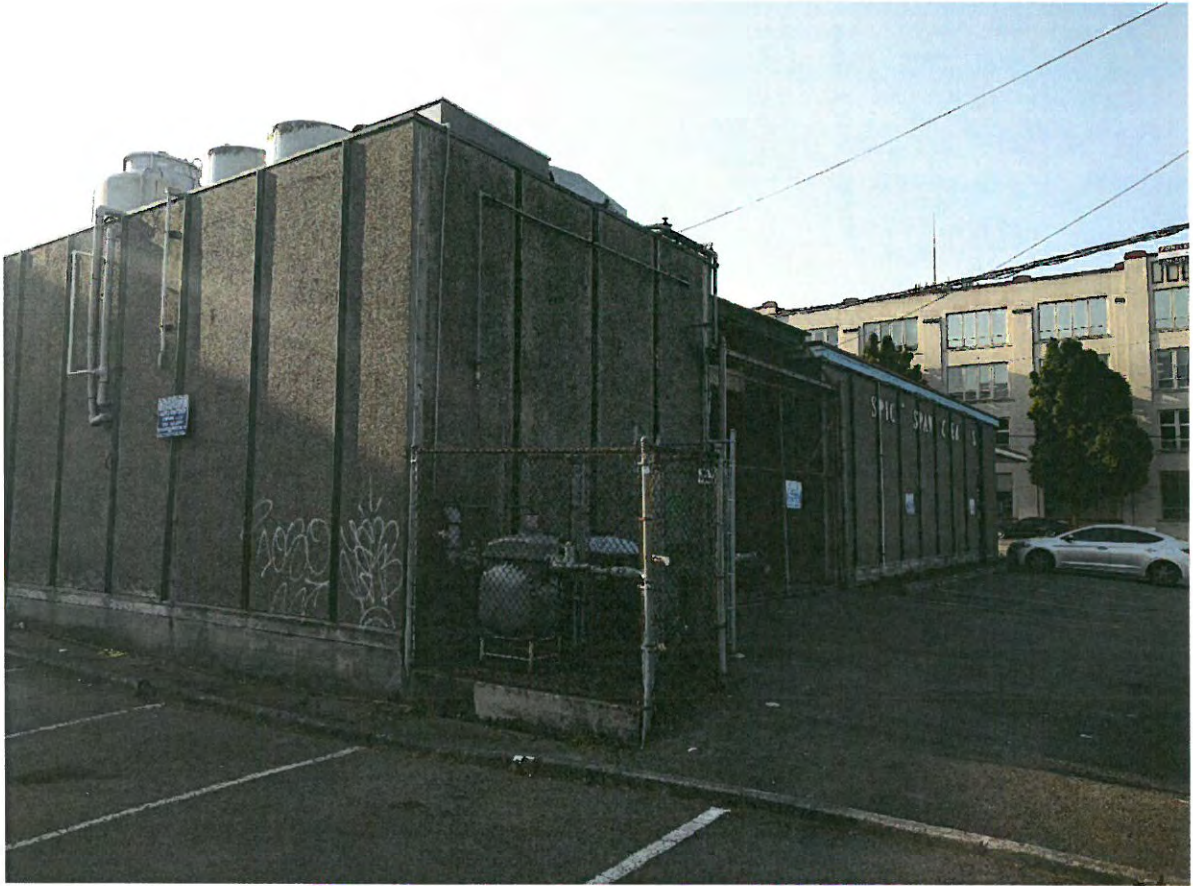
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 DIM/CMV
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ATTACHMENT E

Photographs of Existing Features

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Northwest View



West View

SPECIAL DISTRICT AND LANDMARK REVIEW

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Southwest View



South View

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Southeast View



East View



North View

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Right-of-way facing southwest



Right-of-way facing south

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Right-of-way facing east

ATTACHMENT F

Photographs of Similar Projects and System Components

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Typical ERH equipment compound. The equipment located in the center background are the condenser/cooling towers. The unit is 20' long by 8' wide by approximately 16' high. The equipment located in the center is the ERH power control unit (PCU). The PCU for this site will be 15' long by 8' wide by 9' high.

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ERH equipment compound without privacy screening on fence. Vapor phase granular activated carbon vessels and discharge stack are located in the foreground.

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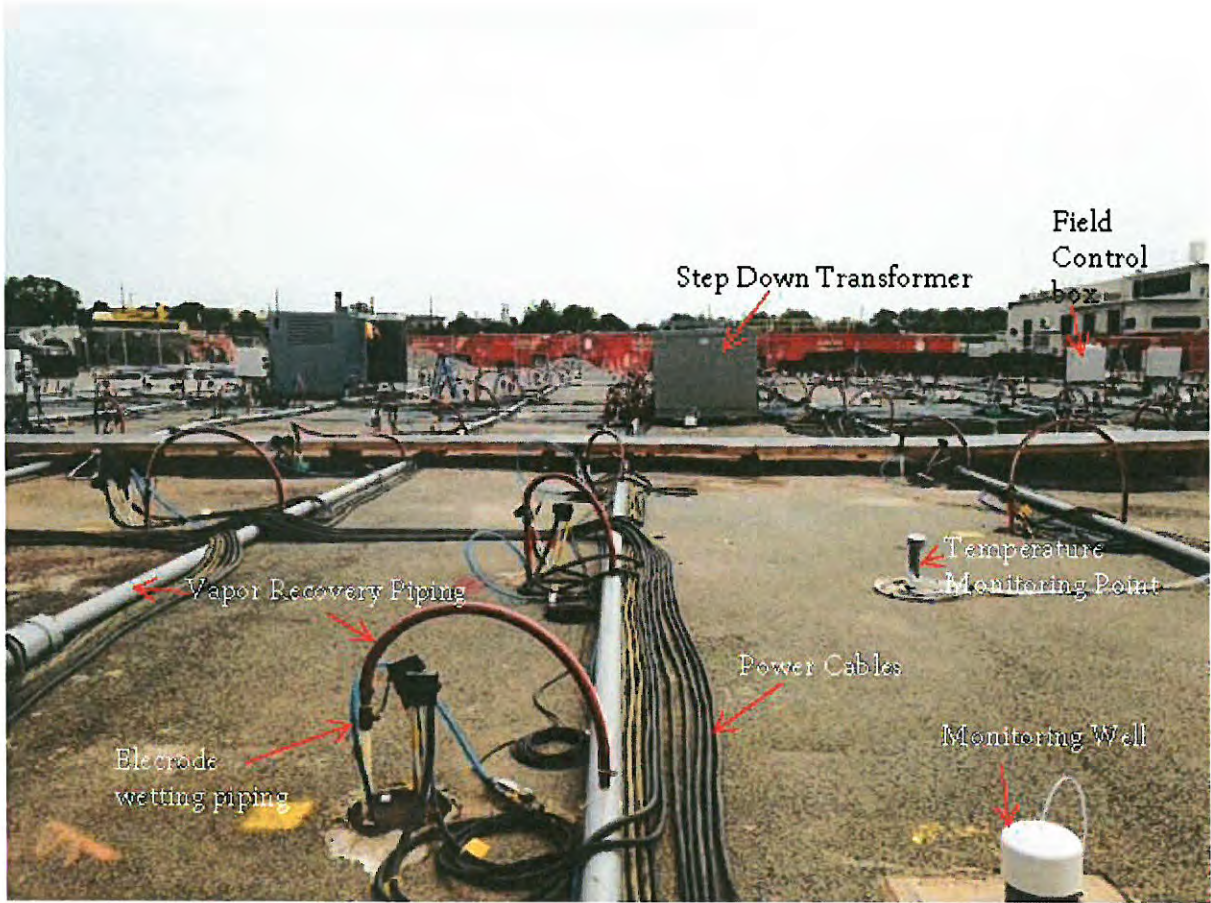
ERH equipment compound with privacy screening on security fence. The stack in the center of the photo is similar in height to what will be at the site.

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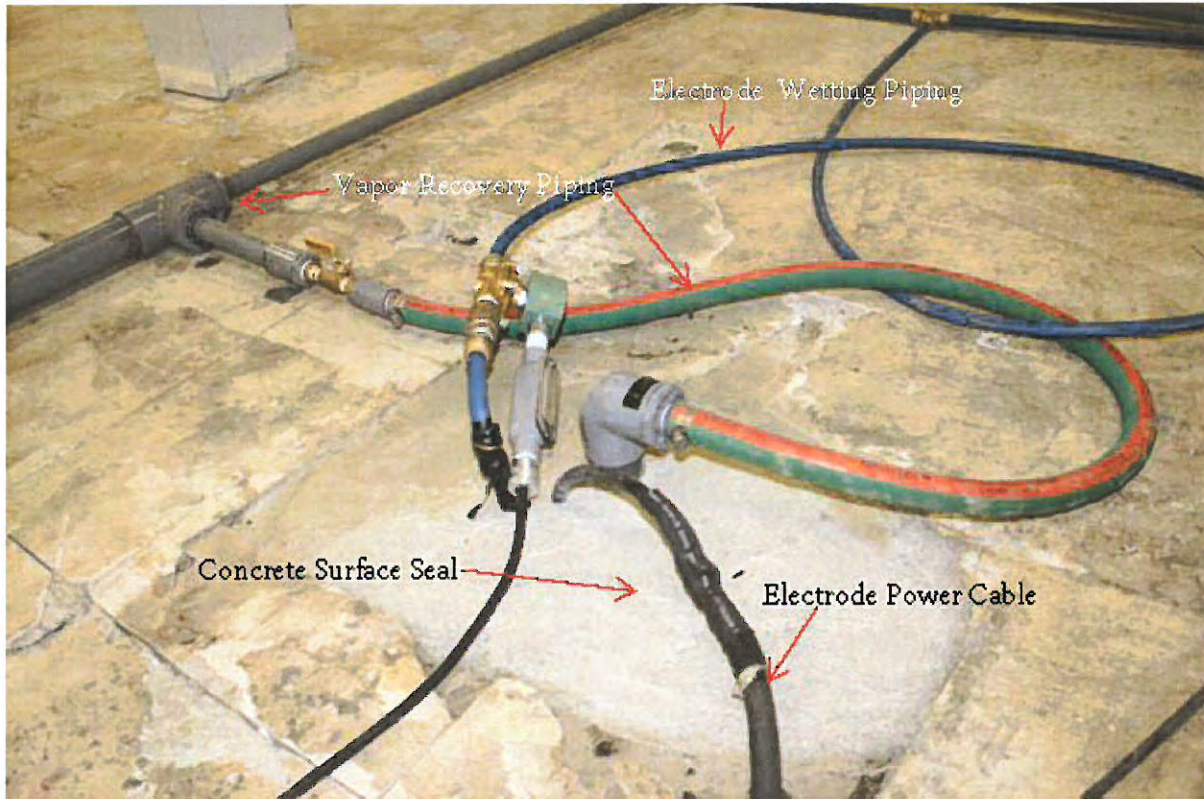
Small equipment compound with privacy slat fence. Note stack from carbon vessels rising above the compound.

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Typical ERH site displaying electrode power cables, vapor recovery piping, temperature monitoring point, monitoring well, and field located equipment. The piping and cabling will be located within the fenced area, and will be visible if there is not any screening present.

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Typical ERH electrode surface completion illustrating vapor recovery and electrode wetting pipe and electrode power cable, and surface concrete seal.

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Trench in parking lot repaired with controlled density fill (CDF) during ERH operations. The CDF is removed and replaced with asphalt at the completion of operations.

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Traffic rated trench completion in warehouse parking lot.

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Newly installed driveway at the completion of ERH operations in the Green Lake area of Seattle. Plastic was used to cover fence in order to protect from graffiti. If fencing was tagged, plastic would be replaced.

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ATTACHMENT G

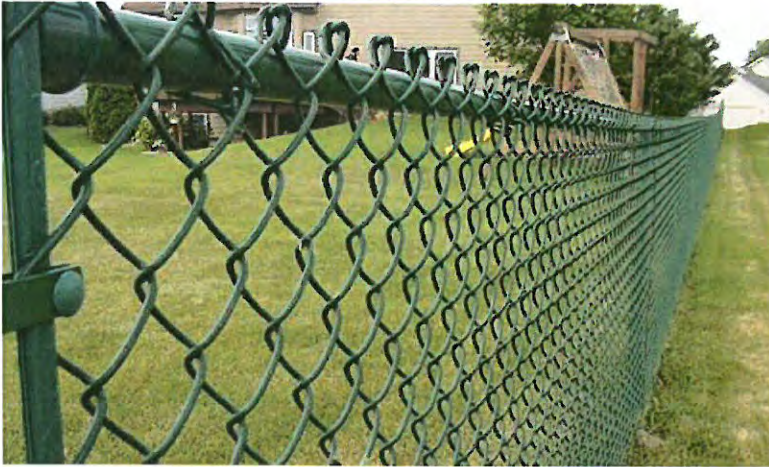
Fencing Details

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Fence Construction Details

The fence surrounding the construction are will be constructed of vinyl-coated chain link and secured to wooden fence posts every 8 feet. Fence posts will be secured in concrete footings set in the ground with motion sensor lights on each wooden fence post. Lighting specifications are included in Attachment H. Murals painted on privacy fabric by a community-based art group (Urban Artworks) would cover the outside of the chain link fence. The proposal from Urban Artworks with example artwork is included below.

Example of vinyl coated chain link fence:



Example of chain link fence with privacy fabric (murals to be developed and are not shown):



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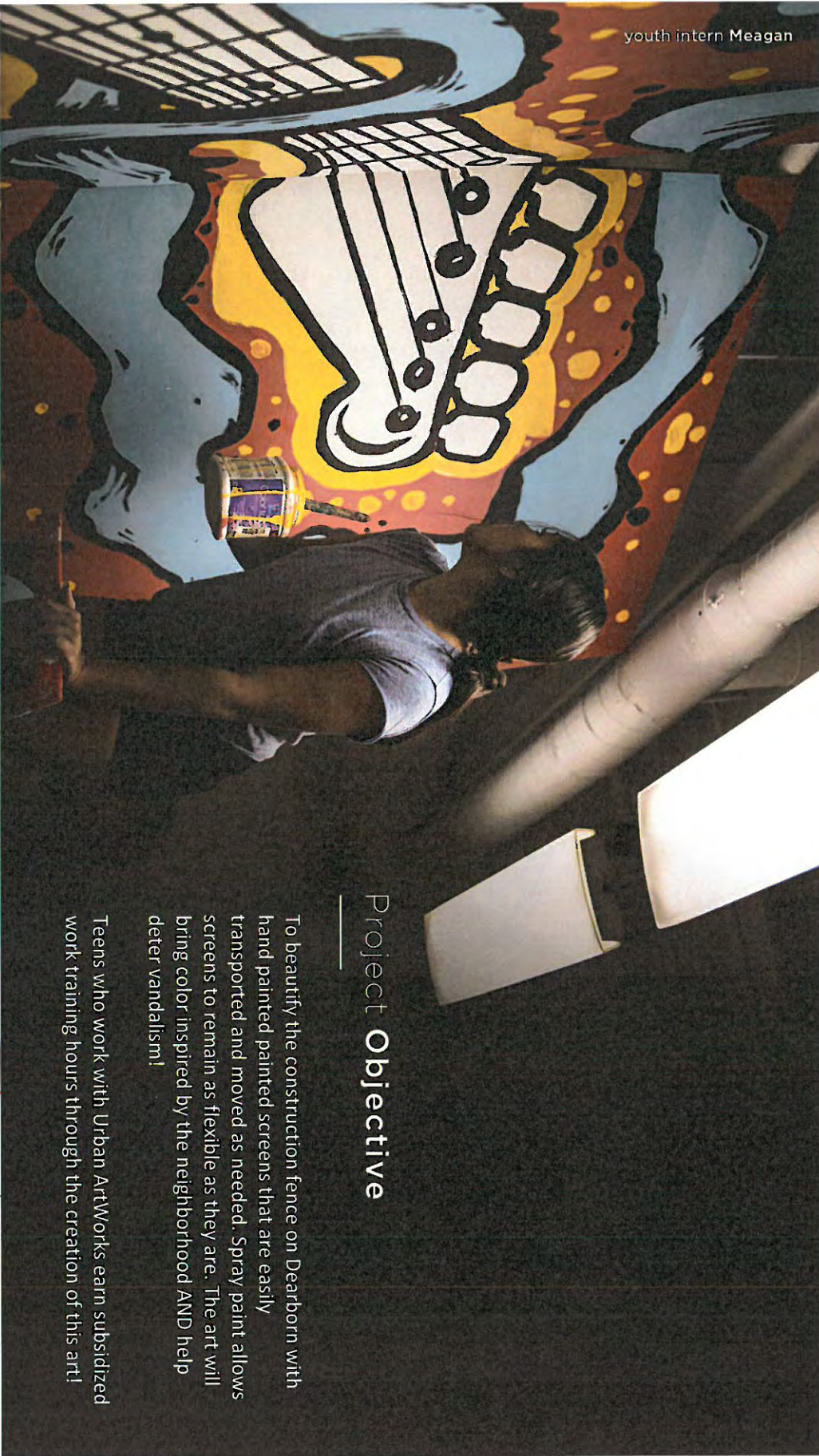


mural design by Erik Burke

URBAN ARTWORKS

Urban ArtWorks is a Seattle-based 501(c)(3) nonprofit organization that provides opportunities for contemporary artists and local youth to work together to create public works of art. Our goal is to empower young people through professional opportunities in the arts. Since 1995 our programs have fostered a renewed sense of self-esteem, self-motivation and self-sufficiency in the young people we work with.

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Project Objective

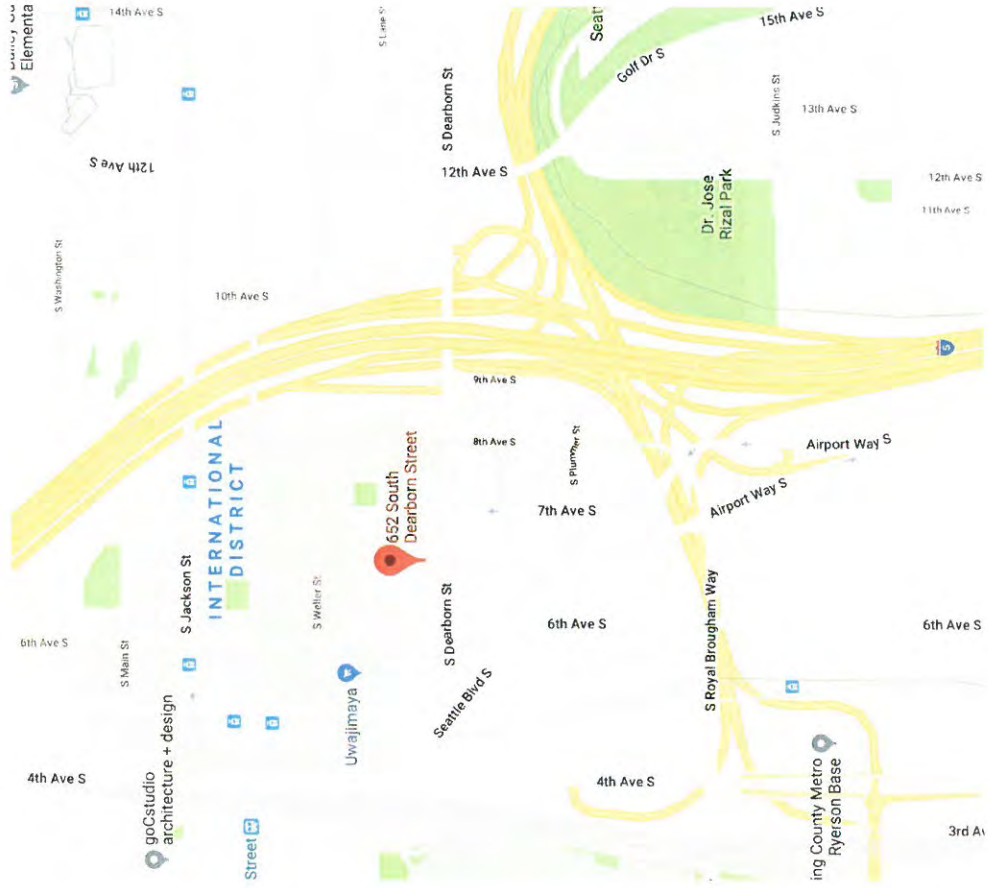
To beautify the construction fence on Dearborn with hand painted painted screens that are easily transported and moved as needed. Spray paint allows screens to remain as flexible as they are. The art will bring color inspired by the neighborhood AND help deter vandalism!

Teens who work with Urban ArtWorks earn subsidized work training hours through the creation of this art!

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Location

652 S Dearborn Street

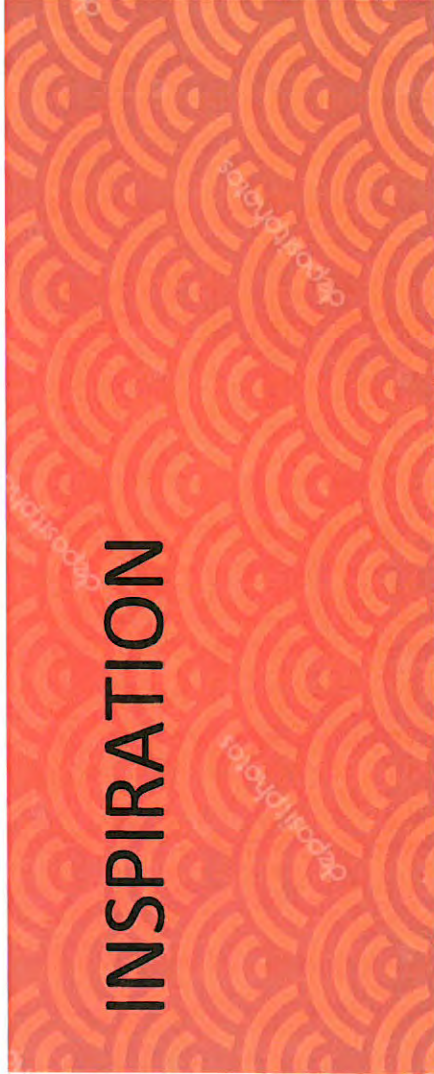


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RECENT EXAMPLES



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Budget

\$5/sq foot of windscreen

Client to provide screens, Urban ArtWorks to provide all other supplies and custom art! Upon completion Urban ArtWorks will deliver to client for installation

Timeline

October 2018 Submit Proposal

December 2018 Concept Design/Final Reviews

Installation as weather allows in early **2019** (estimated 2 week delivery)



Thank You

...for considering Urban ArtWorks, and for the chance to create art for you and the city of Seattle!

Please don't hesitate to reach out with any questions - and to see more work we've created visit our website www.urbanartworks.org or instagram @urbanartworks.

Thank you,

Kathleen Warren
Director

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ATTACHMENT H

Lighting Specifications

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Lighting Details

Light Selection:

Portfolio 12x Brighter (14.4-Lumen) Black Solar LED Post Deck Light with Motion Sensor

Light Specifications (from Lowes.com):

Description	
<p>Safely guide your guests up and down your outdoor staircases with our solar LED deck lights. Our durable deck lights are solar powered and virtually maintenance-free. They're easy to setup and installs in minutes. Invite your friends and family over tonight to experience your landscape. Make your worry-free purchase today!</p> <ul style="list-style-type: none"> Includes (1) solar rechargeable battery Ideal for illuminating your deck, patio and stairs Environmentally friendly - powered by the sun Motion activated fixture detects motion to activate light Integrated photocell prevents lights from turning on with motion during daylight hours Easy installation - no assembly or wiring 	
Specifications	
Collection Name	N/A
Mount Type	Surface mount
Power Source	Solar
Wattage	0
Number of Bulbs Required	0
IPX Rating	4 (splashing water)
Fixture Length (Inches)	3.7
Fixture Height (Inches)	3.6
Fixture Width (Inches)	3.2
Fixture Material	Plastic
Dusk-to-Dawn Sensor	X
Voltage	0
Motion Sensor	✓
Light Bulb Base Type	LED
Recommended Light Bulb Shape	LED
Wattage Equivalent	0
Manufacturer Color/Finish	Black
Color Temperature (Kelvins)	3500
Run Time (Fully Charged) (Hours)	3
Lumens	15
Batteries Included	✓
Number of Batteries Required	1
Number of Light Fixtures	1
Warranty	1-year limited
UL Safety Listing	X
CSA Safety Listing	X
ETL Safety Listing	X
Package Quantity	1
Light Brightness	12x brighter (14.4 lumens)
Fixture Color Family	Black
Glass/Lens Type	Clear
Bulb Type	Integrated LED
Battery Type	Lithium iron phosphate (LiFePO4)
Fixture Finish	N/A
Voltage Type	N/A
Primary Usage	Post

Example photos:



ATTACHMENT I

Summary of Review Board Briefing Comments and Proposed Actions

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Summary of Briefing Comments and Proposed Actions

Project briefings were provided to the Board in 2016 and August 2018. Comments from these briefings and proposed actions to address comments are summarized below.

Privacy Fencing and Lighting

The board indicated that graffiti is a concern on privacy fencing. In order to discourage graffiti, motion sensor lights will be installed around the perimeter of the fence and maintained throughout the duration of the project. In addition, a community art group will be engaged to provide murals on fabric that will be attached to the fence.

Environmental Permitting and Sample Results

The board requested a clear understanding of how permit compliance will be communicated to the surrounding community. A website will be created to communicate project information to the public. The website address will be posted on the west and south sides of the perimeter fence.

Air Discharge Permit: The Puget Sound Clean Air Agency (PSCAA) has determined that this project is exempt from permit requirements because it has “a de minimis impact on air quality and does not pose a threat to human health or the environment.” (Notice of Construction No. 11093, Exemption from NOC Requirements). However, treatment will be utilized in order to control odor and air discharge samples will be collected on a weekly basis and laboratory results will be posted on the website within 72 hours of receiving sample results.

Based on questions from the board during the August 2018 regarding recent PSCAA air quality studies in the International District, Aspect contacted Matt Harper at PSCAA to learn more about his research on air quality in the International District and reviewed the PSCAA report from June 2018 titled “Near-Road Air Toxics Study in the Chinatown-International District.” Based on the report, the majority (75%) of the potential cancer risk in the International District is from diesel particulate matter from vehicle exhaust, which this project will not have any impact on. There were slightly elevated levels of PCE (one of the target contaminants for this cleanup) near the sampling location at Denise Louise Education Center versus the national average. Based on the analysis done by PSCAA, these higher PCE levels are most likely due to the dry-cleaning activities at Spic’n Span Cleaners, which is located two to three blocks west of the Denise Louie Education Center. Concentrations of PCE in the air are not expected to increase as a result of our project’s remediation activities, as confirmed by the exemption letter from PSCAA referenced in the previous paragraph and are likely to decrease since active cleaner operations at the property will cease and all air emissions from the treatment system will be treated. The Board had inquired whether a community group meeting should be considered to discuss air quality impacts; Mr. Harper suggested that, given the de minimis nature of expected project impacts, a meeting was not warranted but that an article about the project could be posted in the International Examiner (discussed below under public outreach).

Wastewater Discharge Permit: A permit from the King County Industrial Waste Program will be obtained to discharge treated process water into the sanitary sewer at the site. This water will be sampled on a weekly basis, and laboratory results will be posted on the website within 72 hours of receiving the sample results.

To promote transparency, a copy of both the Puget Sound Clean Air Agency exemption letter and a copy of the King County Industrial Waste permit will be posted on the website along with weekly sample results. Additionally, contact info for each agency and the Aspect Consulting project manager will be posted on the website.

Water Supply Pipes and Lead

The board indicated a concern with the potential for subsurface heating to mobilize lead in water pipes. Aspect reviewed available subsurface maps for water supply pipes that may pass through the treatment area. No active water supply pipes were identified within the heated treatment area.

Community Outreach

The board requested outreach to local community organizations. Aspect contacted the following agencies:

- Seattle Chinatown International District Preservation Development Authority
- Chinatown International District Business Improvement Area
- Department of Archeology and Historic Preservation

Based on conversations with these agencies, Aspect will distribute flyers at the beginning of the construction period explaining what the project is and the website address where the community can obtain permit compliance information. The flyers and website will have information presented in both English and Chinese. Additionally, Aspect will write up an article for the local newspaper, the International Examiner, giving an overview of the project and the website address.

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ATTACHMENT J

Puget Sound Clean Air Agency Exemption Letter

SPECIAL DISTRICT AND LOCAL AGENCIES	
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	DATE 12/17/18



February 25, 2016

Clean healthy air for everyone, everywhere, all the time.

Eric Geissinger
Aspect Consulting, LLC
401 2nd Ave S, Ste 201
Seattle, WA 98104

Dear Mr. Geissinger:

Facility Registration No. 22449
Notice of Construction No. 11093
Exemption from NOC Requirements

Board of Directors

Bremerton
Patty Lent, Mayor

Everett
Ray Stephanson, Mayor
Paul Roberts, Board Chair

King County
Dow Constantine, Executive

Kitsap County
Edward Wolfe, Commissioner

Pierce County
Pat McCarthy, Executive

Public-at-Large
Stella Chao

Seattle
Ed Murray, Mayor

Snohomish County
Dave Somers, Councilmember

Tacoma
Ryan Mello, Councilmember

Executive Director
Craig T. Kenworthy

Phone
206.343.8800
800.552.3565

Fax
206.343.7522

Mail
1904 Third Avenue, Suite 105
Seattle, WA 98101-3317

We have reviewed your 1/25/16 request for an exemption from Notice of Construction permit requirements for soil & groundwater remediation at Spic N Span Cleaners dry cleaning facility (Reg. 22449) using an electrical resistance heating and vapor extraction system controlled by two carbon vessels arranged in series.

The Puget Sound Clean Air Agency (Agency) concludes that this project does not require a Notice of Construction permit. This determination is made under the authority of Agency Regulation I Section 6.03(b)(10). This section exempts "Any source not otherwise exempt under Section 6.03(c) of this regulation that has been determined through review of a Notice of Construction application by the Control Officer not to warrant an Order of Approval because it has a de minimis impact on air quality and does not pose a threat to human health or the environment."

If you have any questions about this determination, please contact Gerry Pade at 206-689-4065 or me at 206-689-4061.

Sincerely,

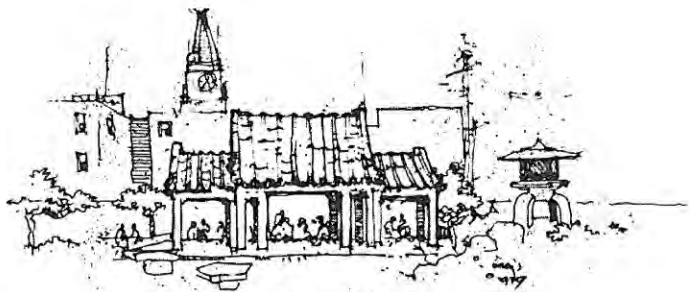
Carole Cenci, P.E.
Compliance Manager

CJC:ns

cc: Gerry Pade
Walter Voegtlin

Jae Lee
Spic N Span Cleaners
652 S Dearborn St
Seattle, WA 98134

SPECIAL PROJECT AND LANDMARK REVIEW			
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INITIALS	REP	DATE	12/17/19



The City of Seattle

International Special Review District

Mailing Address: PO Box 94649, Seattle WA 98124-4649

Street Address: 600 4th Avenue, 4th Floor

ISRD 90/19

May 22, 2019

Delia Massey
Aspect Consulting
710 Second Ave. S., #550
Seattle WA 98104

Re: Condition placed on Certificate of Approval in December 2018

Delia,

On December 11, 2018 the International Special Review District (ISRD) Board recommended approval for a Certificate of Approval for the remediation/clean-up (via electrical resistance heating – ERH) of soil and groundwater contamination and installation of treatment equipment and the erection of an 8' tall vinyl-coated chain link fence around the site, conditional upon submission of a final rendering or mock up of the design to the ISRD Coordinator for final review and approval prior to installation. I received the rendering on May 17, 2019 and confirmed that the revisions are consistent with the recommendations of the ISRD Board.

This letter confirms that the conditions associated with the Certificate of Approval (ISRD 280/18) have been met. A copy of the fence mural design has been placed in the project file within the Department of Neighborhoods office.

Rebecca Frestedt

International Special Review District Coordinator
rebecca.frestedt@seattle.gov * 206-684-0226

**Administered by The Historic Preservation Program
The Seattle Department of Neighborhoods**

"Printed on Recycled Paper"

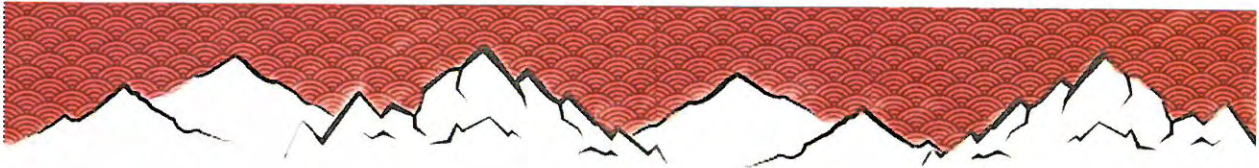
ATTACHMENT K

Final Mural Design

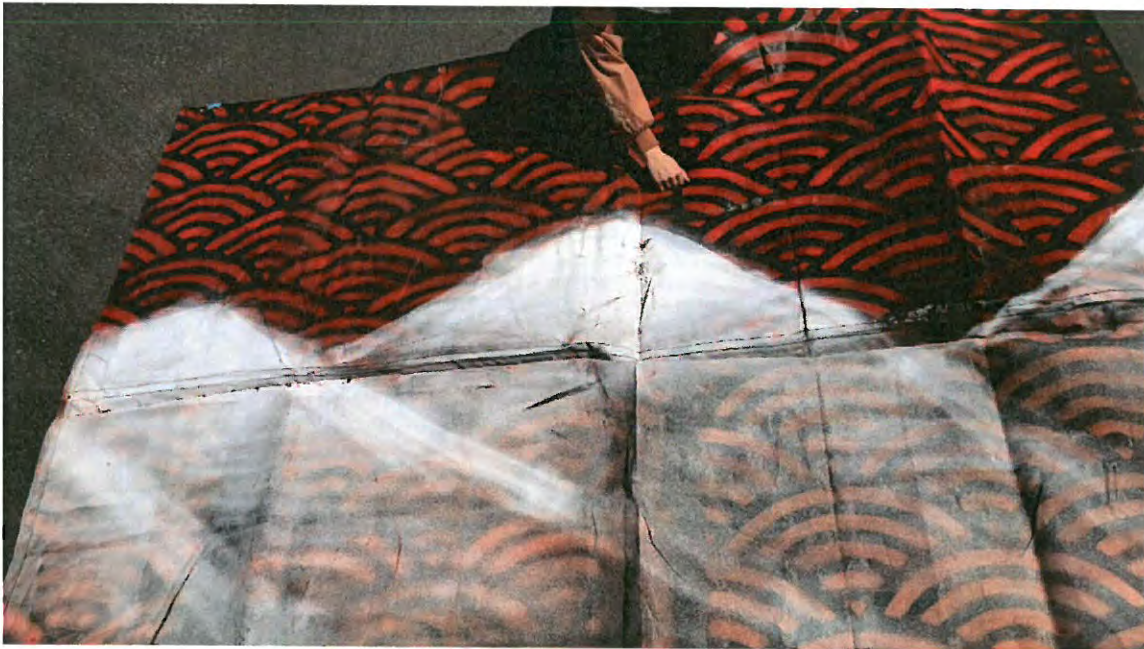
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SPECIAL DISTRICT AND LANDMARK REVIEW	
PROPERTY OR DISTRICT	<i>Int'l Special Review Dist</i>
CHANGE OF USE	LOG # <i>15RD 90/19</i>
ST. USE	DATE <i>5/22/19</i>
<input checked="" type="checkbox"/> EXT. DESIGN	STAFF <i>R. Frestedt</i>
INT. DESIGN	PHONE <i>684-0226</i>
COMMENTS ON PAGES:	<i>Associated w/ 15RD 280/18</i>

The final mural design created by Urban Artworks for the construction fence at 652 S Dearborn St is shown in photographs 1 and 2. The mural was painted on a black woven polypropylene privacy screen, and the dimensions are 8 feet in height by 270 feet in length (divided into three 50-foot sections and two 10-foot sections for the fence gate). In the event of any graffiti, the mural will be spray painted white to cover it.

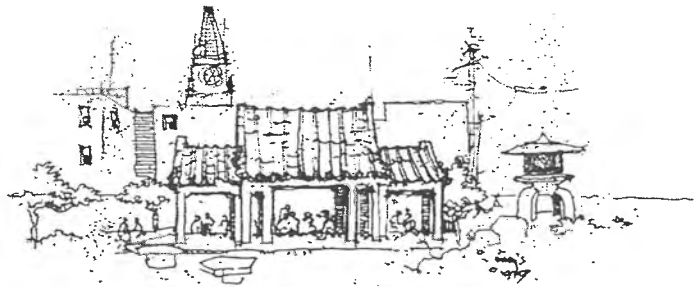


Photograph 1. Mock-up of final fence mural design by Urban Artworks.



Photograph 2. Finished fence mural.

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The City of Seattle

International Special Review District

Mailing Address: PO Box 94649, Seattle WA 98124-4649
Street Address: 600 4th Avenue, 4th Floor

SEPA: This action is
categorically exempt
from SEPA pursuant to
WAC 197-11-800

ISRD 25/20

CERTIFICATE OF APPROVAL

DATE: February 10, 2020

APPLICANT: Jeremy Porter/Delia Massey
Aspect Consulting
710 2nd Ave. #550
Seattle, WA 98104

WORK LOCATION: 652 S. Dearborn St. – Spic N’ Span

TYPE OF WORK PROPOSED: Site alterations

The International Special Review District Board recommends approval of an application for:

Site alterations: Revision to the previously approved configuration of equipment for remediation/clean up of soil and groundwater contamination.

See the attached plans, photographs and lighting specifications.

This recommendation is based on the presentation to the Board at the meeting of January 28, 2020 and is supplemented with documentation from the files.

The International Special Review District Board considered the following Seattle Municipal Codes and District Design Guidelines when making the recommendation:

SMC 23.66.334 – Streets and Sidewalks

Secretary of the Interior’s Standards #10

I concur with the Board’s recommendations and hereby issue this Certificate of Approval pursuant to International Special Review District, SMC 23.66, as amended.

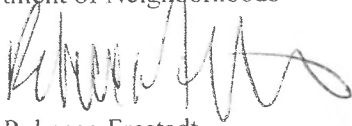
It is the applicant’s responsibility to obtain all other permits and comply with other City or County regulations. *To obtain a permit for a sign, marquee or canopy, contact Steve Sampson, Seattle Department of Construction*

**Administered by The Historic Preservation Program
The Seattle Department of Neighborhoods**

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and Inspections at 206-684-8419. To obtain a Street Use Permit, contact Seattle Department of Transportation Public Space Management, at 206-684-5267.

Andrés Mantilla, Director
Department of Neighborhoods



By: Rebecca Frestedt
Board Coordinator

cc: ISRD Board Chair	Gerald Ostroff, Property owner
Nathan Torgelson, SDCI	Case file
Maria Cruz, SDCI	Log
Street Use, SDOT	

NOTICE TO APPLICANT: Work must occur exactly according to approved plans and specifications. ANY revisions, omissions and/or additions to plans and specifications must be reviewed and approved by the International Special Review District Board prior to implementation.

APPEAL PROCEDURE: Any interested person may appeal the above decision to the City Hearing Examiner. The appeal and a copy of this decision must be filed with the Hearing Examiner, 700 5th Avenue, Suite 4000, Seattle, WA 98124 before 5:00 p.m. on the fourteenth (14th) day following the date of issuance of this certificate, and must be accompanied by an \$85.00 filing fee in the form of a check payable to the City Treasurer. Appeals must be in writing and must clearly state objections to the decision. A copy of the appeal shall also be served upon the Department of Neighborhoods Director, City Hall, 600 4th Avenue, 4th fl, Seattle, Washington 98124-4649.

EXPIRATION OF CERTIFICATES OF APPROVAL: Certificates of Approval shall expire eighteen months from the date of issuance unless the Department of Neighborhoods Director determines that extenuating circumstances justify extension of the expiration date. Form Revised February 20166

SPECIAL DISTRICT AND LANDMARK REVIEW	
PROPERTY OR DISTRICT	652 S. Dearborn St International Sp. Review
CHANGE OF USE	LOG # 1820 25/20
ST. USE	DATE 2/10/2020
<input checked="" type="checkbox"/> EXT. DESIGN	STAFF R. Preetest
INT. DESIGN	PHONE
COMMENTS ON PAGES:	

ATTACHMENT B

Project Description

SPECIAL DISTRICT AND LANDMARK REVIEW	
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	DATE 2/10/20

Spic'n Span Cleaners Remediation Project - Revision

This is a request for a revision to the previously approved application for the Spic'n Span Cleaners Remediation Project at 652 S Dearborn St. The original Certificate of Approval (ISRD 280/18) was approved on December 17, 2018 and is attached as Attachment C. The revision is requested because the site layout has changed due to new guidelines from Seattle City Light (SCL) regarding the placement and clearances required for pad-mounted transformers on private property. The updated guidelines are described in Seattle City Light Construction Standard 0724.50, "Customer Requirements for Padmount Transformer Services, Looped Radial System", effective on May 21, 2019 (Attachment D). These new guidelines went into effect after the Certificate of Approval for the project had been obtained, while Seattle City Light was still in the process of reviewing the transformer pad design for the Spic'n Span Cleaners site. The change in layout only affects the southeast corner of the site, where the transformer is located. The transformer is in approximately the same location as presented in the original application, however, now the fence along the south side of the property will end 23 feet before the east property line and the transformer will be located 7 feet east of the fenceline. Due to the constraints of the new guidelines which have specific clearances for conductive and combustible structures, the transformer must be located outside the fence. This will have a different visual impact than the original site design, but it is the only way to accommodate the SCL requirements. The new site layout is included in Attachment E, scale drawings are included in Attachment F, and photographs of existing features and proposed features are included in Attachments G and H, respectively. Construction details and specifications for the transformer pad and the bollards are included in Attachment I.

Site Restoration Plan

The surfaces at the site will be returned to their existing condition once the remediation is complete, including the asphalt where the transformer pad will be constructed and where the bollards will be installed.

Lighting and Fence Mural

Although the southeast corner of the property with the transformer will no longer be fenced in, the rest of the property will still have a vinyl chain link fence with wooden fence posts and a mural as described in the original application. The fence mural was created as planned by Urban Artworks and the final design is included in Attachment J. The motion-sensor lighting will also be installed on the fence posts as planned in the original approved application.

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ATTACHMENT D

**Seattle City Light Construction
Requirement 0724.50**

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Customer Requirements for Padmount Transformer Services, Looped Radial System

1. Scope

This standard provides the requirements for Seattle City Light (SCL) looped radial system transformer pad services. This standard does not provide requirements for in-building vaults.

2. Application

This standard provides direction to customers, contractors, and SCL crews about where and how to properly install transformer pad services on private property.

For transformers located within in-building vaults, refer to SCL 0751.00 and 0751.60.

For transformers installed outside in below-grade vaults, refer to SCL 0732.50.

3. Conflict

Where conflict exists between SCL requirements, the following order of precedence shall apply:

1. Project-specific Customer Requirements Package, including the Service Construction Letter and Drawing
2. SCL 0724.50
3. Seattle Building Code, 2015, Section 428 (within the City of Seattle)
4. Other SCL construction standards
5. Other industry standards

4. General Requirements

See project-specific construction package for:

- Transformer pad location
- Bollards, if required

Conduits shall extend 3 inches above the surface of the pad. Grout and use petroleum resistant sealant around conduits.

Elbows shall be rigid galvanized steel.

All exposed metallic conduits shall have a grounding bushing or a bushing plus a ground clamp.

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Standards Coordinator
Brett Hanson



Standards Supervisor
John Shipek



Unit Director
Andrew Strong



4.1 High Voltage (Primary) Conduits

- 4.1.1 Provide and install two 4-inch conduits from the vault to the utility facility specified by the SCL Engineer.
- 4.1.2 Install and terminate below-grade primary conduit per SCL 0222.02 and 0214.00.
Provide and install conduit risers on pole per SCL 0224.34. Exact location shall be included in the project-specific Customer Requirements Package.

4.2 Secondary Conduits

The customer shall furnish and install NEC-sized conduit and phase and neutral conductors of sufficient length to connect to the transformer terminals. See SCL 0473.50 for cable options. The conduit location shall be designated by SCL. If more than four conductors per phase and neutral are installed, the customer may be required to provide a secondary termination facility. For eight or more secondary conduits contact SCL Engineer for layout. See SCL 0224.07.

4.3 SCL Access

Provide properly supported, unobstructed access from the right-of-way to the transformer pad for SCL equipment-handling machinery. SCL must be able to move to the transformer pad, or remove from the transformer pad, all electrical equipment, including tall, heavy transformers, and to service electrical equipment using SCL equipment handling machinery.

Provide unobstructed clear space above each pad so that SCL can move transformers using SCL equipment handling machinery. Provide a permanent, level, unobstructed, 8-ft wide working area to the pad. If any portion of the building extends within 3 feet of the footprint of the pad, an Equipment Transportation Agreement is required that will be attached to the property title. The agreement requires the building owner to move transformers to and from the transformer pad, to a mutually agreed upon location on, or in the vicinity of, the owner's property from which SCL is able to deliver or pick up the transformers using normal transporting methods and equipment. Any damage that occurs to the transformers during transportation by the building owner and any additional expense incurred as a result of damage shall be paid by the building owner.

4.4 Transformer Pad Location

Pad shall be located in order to satisfy Figures 4.4a, 4.4b, and 4.4c. Combustible and noncombustible structures are defined by the Authority Having Jurisdiction.

Provide a minimum of 10 feet unobstructed working clearance on the conduit-opening side of the pad, and a minimum of 3 feet of clear space on the three other sides of the pad, for SCL crew's working-space and the pad's ground ring. If curbs are used for protection instead of bollards, any side of the transformer pad exposed to traffic shall have a continuous minimum 8-inch-tall structural curb installed 10 feet from the nearest edge of the pad.

Foundations, footings, structures, tanks, piping, etc. are not allowed within the footprint of the transformer pad, grounding ring, or oil containment system.

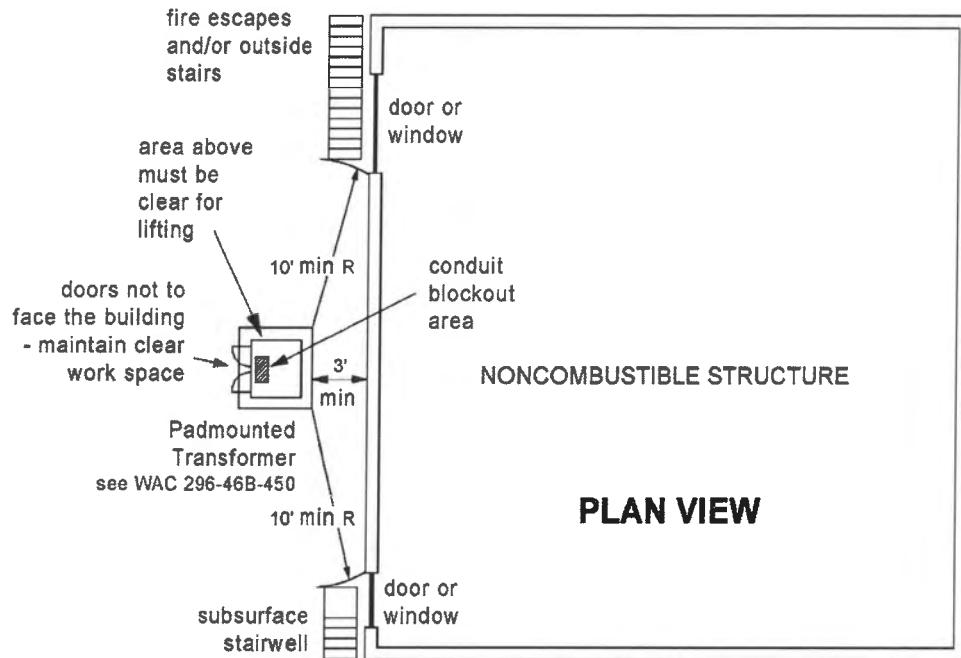
Maintain a minimum of 25 feet unobstructed vertical working clearance from the top of the pad to any trees.

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Transformer pad must be a minimum of:

- 10 feet from any property line between private properties.
- 10 feet from building doors or windows.
- 10 feet from combustible structures.
- 7 feet from noncombustible conductive (metal) structures.
- 3 feet from noncombustible nonconductive structures.
- 10 feet horizontally from any trees. The distance shall be measured from the tree's root ball to the nearest edge of the pad.

Figure 4.4a. Noncombustible Structures (for combustible structures, see Figure 4.4c.)



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Figure 4.4b. Noncombustible Structures Elevation View (for combustible structures, see Figure 4.4c.)

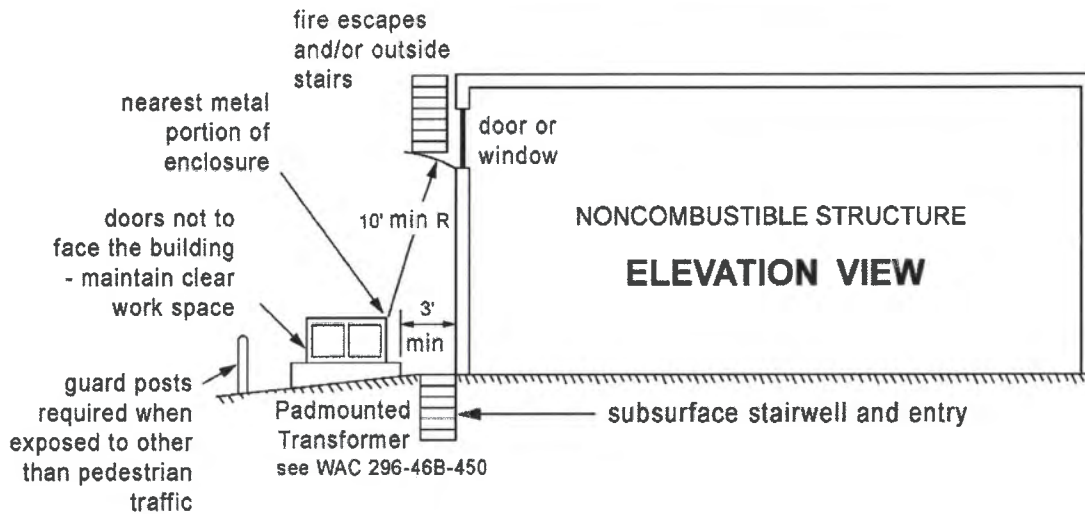
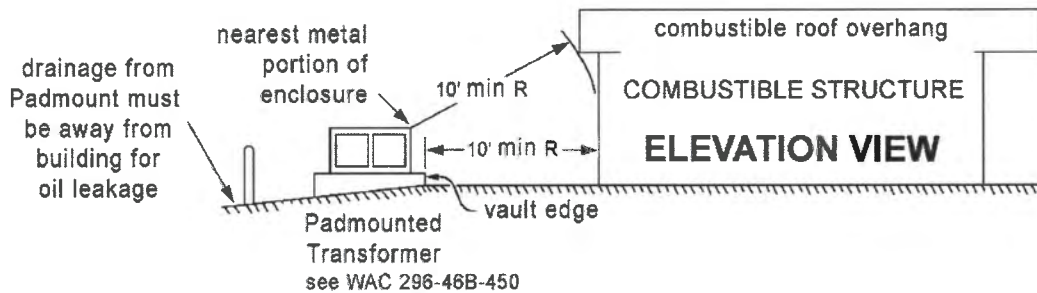


Figure 4.4c. Combustible Structures, Elevation View



4.5 Bollards

After the transformer has been set on the pad, install highly-visible, non-conductive 8-inch diameter minimum by 8-foot long rigid posts, Ceme-Tube Bollard or structural equivalent, to protect the transformer from vehicles. Insert posts to a depth of 4 feet and fill with concrete per manufacturer's instructions.

Locate bollards outside of the oil containment system.

Locate bollards a minimum of 4 feet away from the transformer door side of the pad so that the doors will open 180 degrees.

Locate bollards a minimum of 3 feet away from the transformer pad on the other three sides of the transformer.

See project-specific construction package for bollard locations.

4.6 Soundproofing

Isolate transformer pad so that sound and vibration levels from transformers satisfy applicable laws and ordinances of the State of Washington, King County, and the appropriate municipality.

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4.7 Oil Containment

Provide oil containment per SCL 0735.50.

If precast or cast-in-place oil-containment system is installed separately from the transformer pad, connect the pad to the system.

Connections shall be made with a minimum of eight (8) concrete anchors or rebar dowels: one near each corner and one at the middle of each side.

Connections shall be made a minimum of 6 inches from pad edges and 4 inches clear of the lifting inserts.

Rebar dowels or rod shall be embedded a minimum of 4 inches into the foundation or oil containment slab.

Concrete anchors shall be stainless steel (ASTM F593 - AISI 304/316 SS) and 3/4 inches minimum in diameter.

Rebar dowels or rods shall be stainless steel (ASTM F593 - AISI 304/316 SS) and #6 (nominal 3/4 inches) minimum diameter. The seam between the precast transformer pad and the oil containment system shall be grouted to prevent oil or water seeping into the interface.

5. Pad Requirements

Three-inch high capital letters, "SCL," shall be cast in the concrete pad surface, facing the outside, centered between the long side of the conduit opening and the nearest outside edge of the pad.

Furnish and install pad, wire, ground rods, and connectors per Table 5 and Figures 5a, 5b, 5c, and 5d.

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Table 5. Material List

Item No.	Item	Figure			
		5a	5b	5c	5d
1	Transformer Pad				
	Stock No.	013721	013722	013723	013724
	Dimensions (W x L, inches)	48 x 56	84 x 84	96 x 93	96 x 120
-	Transformer				
	120/240V (kVA Range)	25-167	N/A	N/A	N/A
	208Y/120V (kVA Range)	N/A	150	225-500	750-1000
	480Y/277V (kVA Range)	N/A	150-300	500-1000	1500-2500
2	Ground Wire				
	Trade Size	#2 AWG	#2 AWG	2/0 AWG	2/0 AWG
	Quantity (ft)	40	55	60	65
	Stock No., Matl Std 6103.90	610434	610434	610425	610425
3	Connector				
	Stock No., Matl Std 6693.70	669379	669379	669379	669379
4	Exothermic Weld				
	Quantity	4	4	4	4
	Stock No., Matl Std 6762.90	013580	013580	013585	013585
5	Ground Rod				
	Quantity	4	4	4	4
	Stock No., Matl Std 6762.25	564238	564238	564238	564238

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Figure 5a. Single-Phase Transformer Pad Requirements

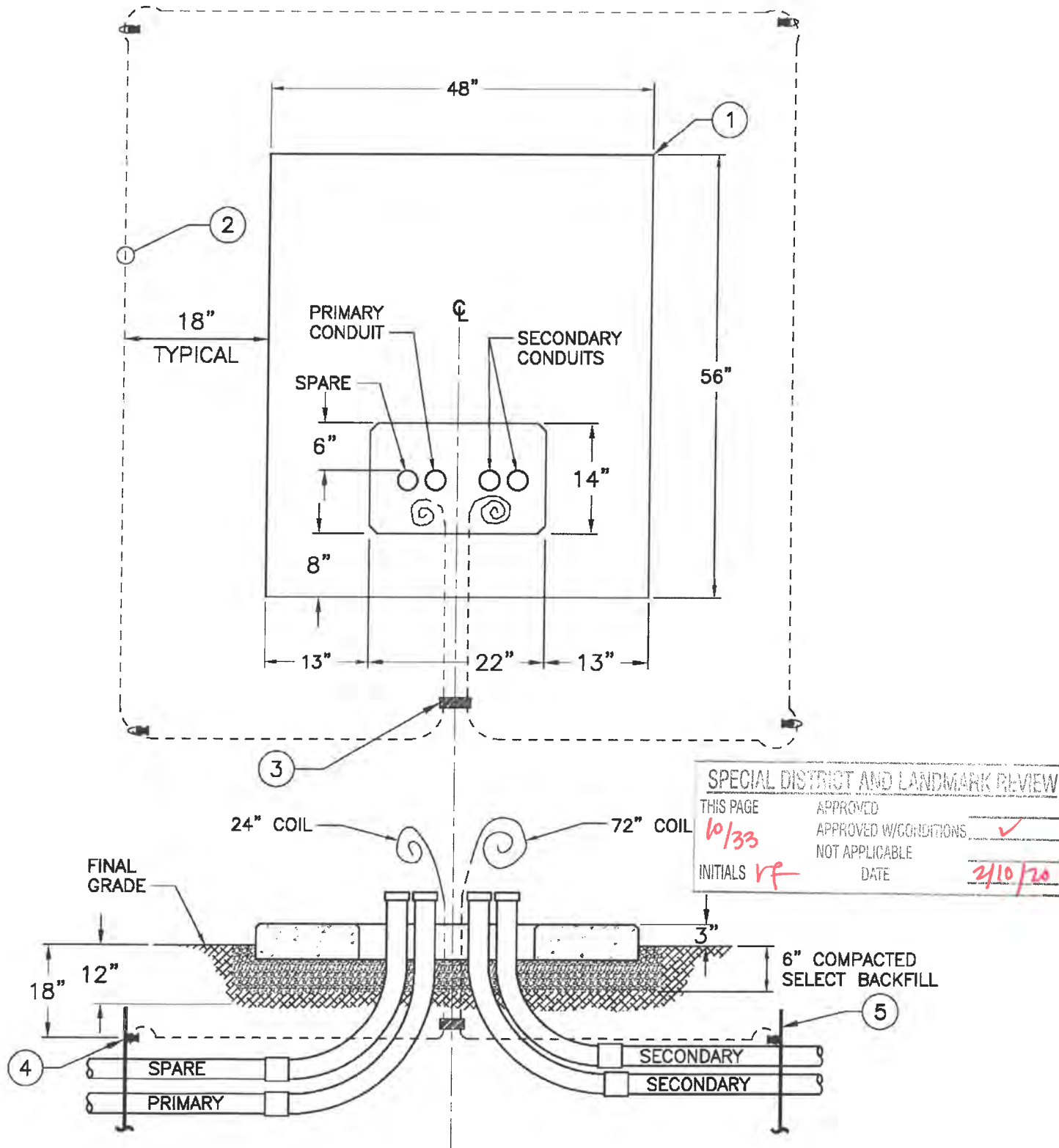


Figure 5b. Small Three-Phase Transformer Pad Requirements

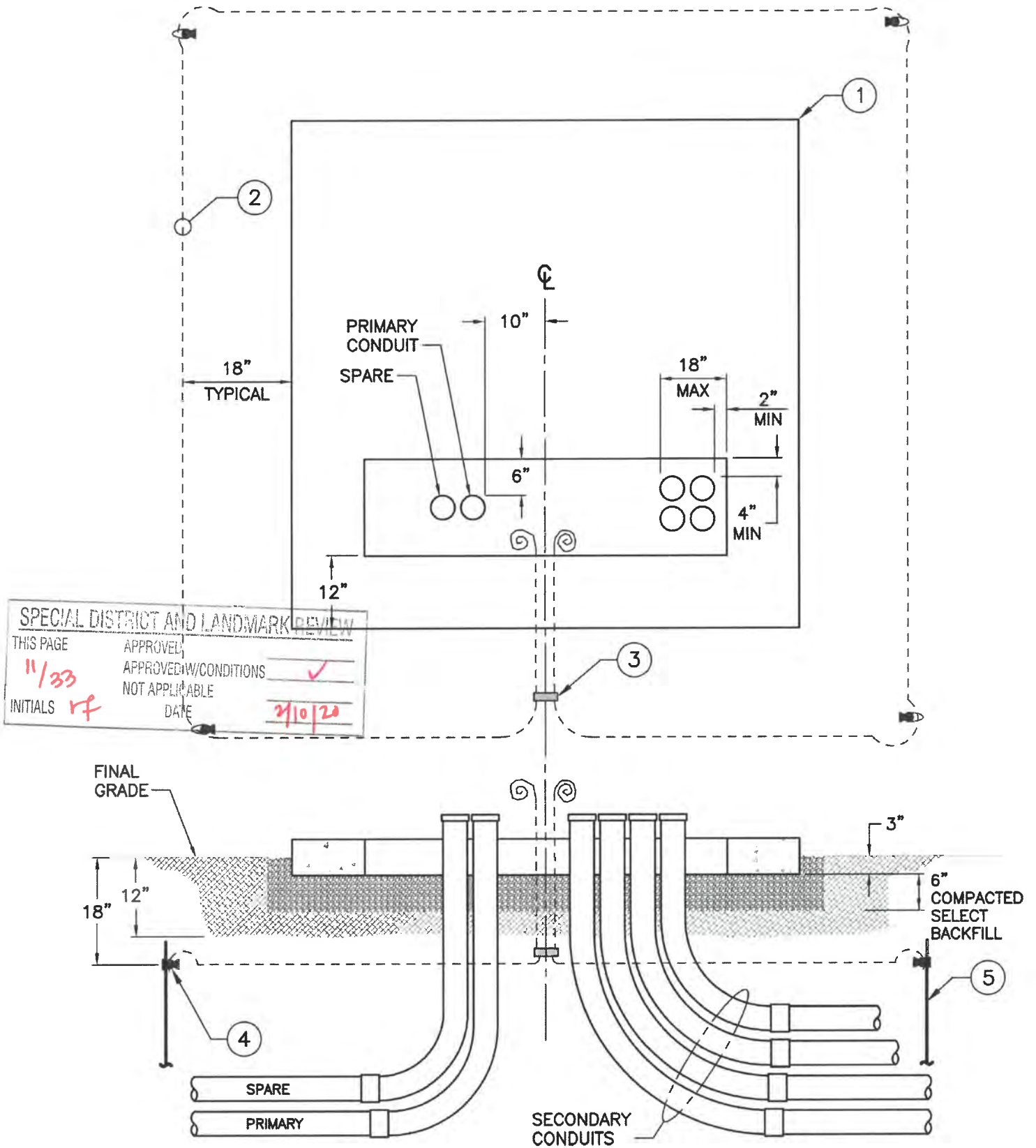


Figure 5c. Medium Three-Phase Transformer Pad Requirements

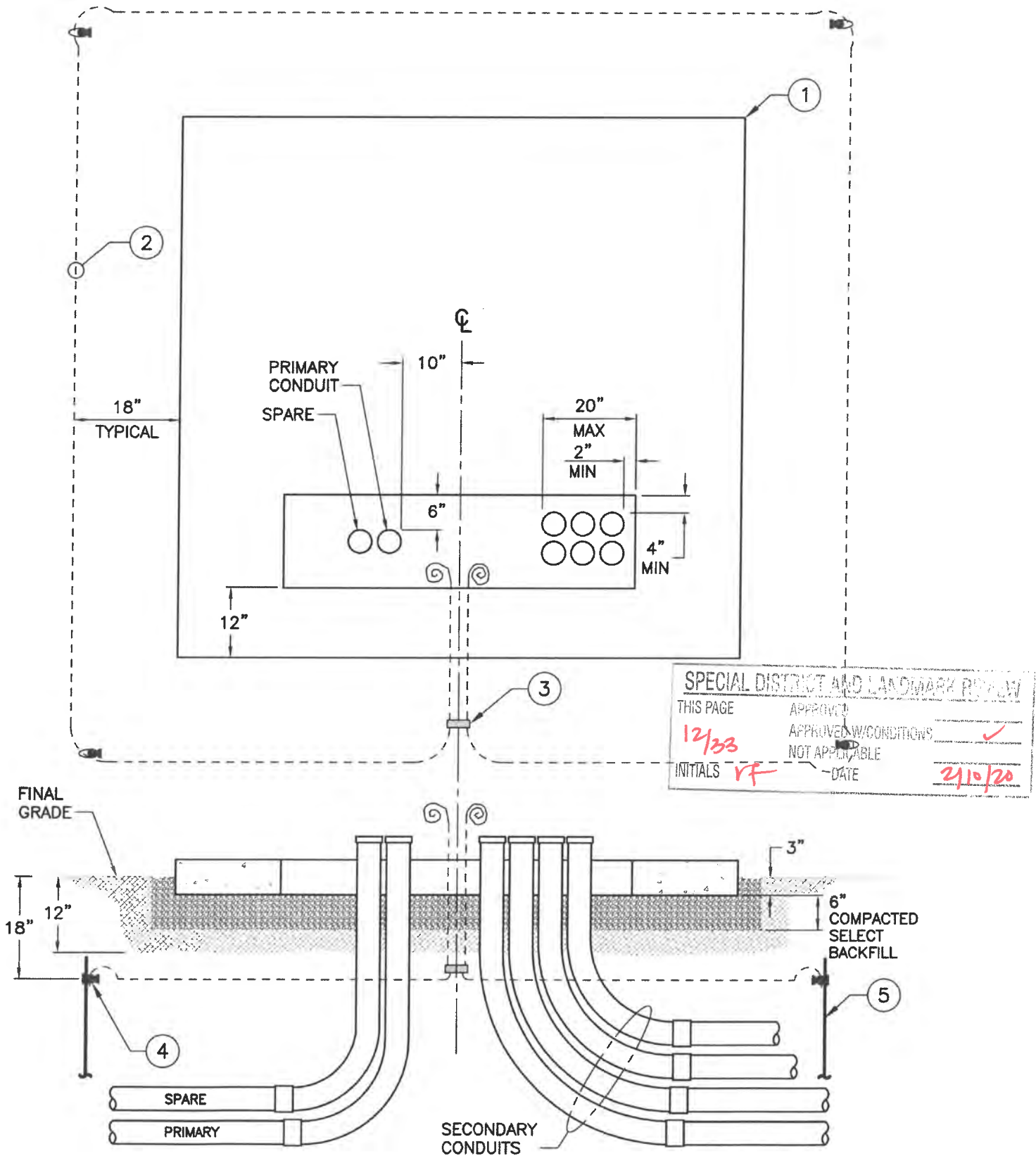
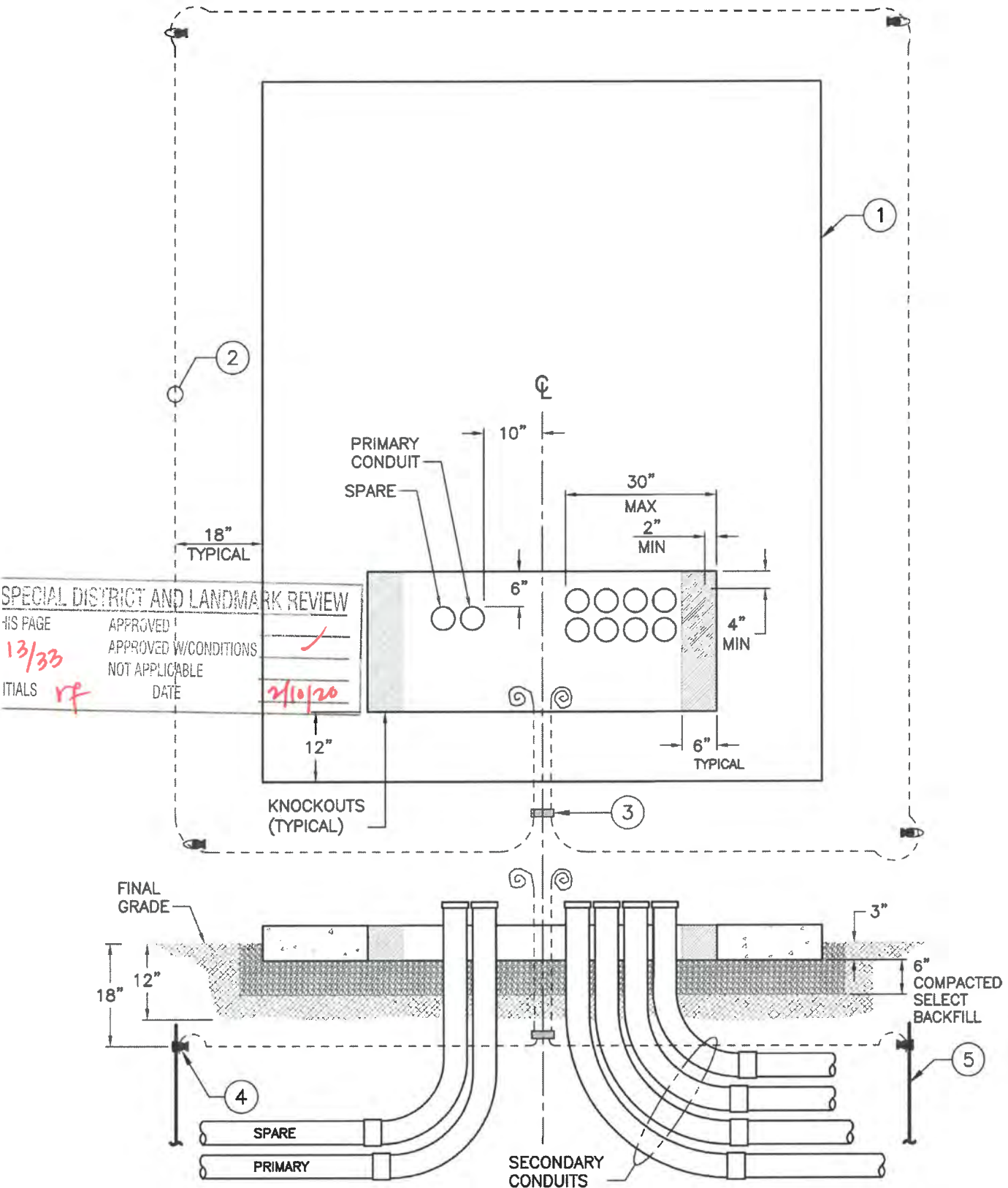


Figure 5d. Large Three-Phase Transformer Pad Requirements



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6. Grounding

Furnish and install grounding per Table 5 and Figures 5a, 5b, 5c, and 5d.

Ground ring must form a complete rectangle as shown in Figures 5a, 5b, 5c, and 5d, and when tested by SCL, provide a resistance to ground of 25 ohms or less.

All below-grade connections shall be done by exothermic weld per SCL 0468.90.

For the primary conduit duct bank that enters the transformer terminal compartment, install 50 ft of bare 250 kcmil wire in the bottom of that duct bank to form a concrete-encased electrode. Wire must be straight and positioned to ensure it is surrounded by 2 in of concrete on all sides when concrete is poured. From the duct bank electrode, extend 6 ft of additional wire into the transformer primary terminal compartment to connect it to the transformer grounding lug.

7. References

SCL Construction Standard 0214.00; "Clearances between SCL Underground Structures and Other Structures"

SCL Construction Standard 0222.02; "Requirements for Primary Conduit and Duct Bank Installation"

SCL Construction Standard 0224.07; "Requirements for Secondary Conduit Installation"

SCL Construction Standard 0224.34; "Steel Conduit Risers"

SCL Construction Standard 0468.90; "Exothermic Connection System"

SCL Construction Standard 0473.50; "Looped Radial and Network Service Entrance Cables in Conduit for Underground Primary Service"

SCL Construction Standard 0732.50; "Customer Requirements for Below-Grade Transformer Service Vaults, Looped Radial System"

SCL Construction Standard 0735.50; "Oil Containment Systems"

SCL Construction Standard 0751.00; "Customer Requirements, In-Building Transformer Vaults, Network and Looped Radial Systems"

SCL Construction Standard 0751.60; "Concurrent Customer Requirements, In-Building Transformer Vaults"

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8. Sources

Hanson, Brett; SCL Standards Engineer and originator of 0724.50
(brett.hanson@seattle.gov)

Lin, Chung; SCL Electrical Engineer and subject matter expert for 0724.50
(chung-i.lin@seattle.gov)

Perander, Eivind; SCL Electrical Engineer and subject matter expert for 0724.50
(eivind.perander@seattle.gov)

SCL Construction Guideline U10-7 (canceled); "Requirements for Transformer Pads and External, Below-Grade Transformer Service Vaults, Looped Radial System"

SCL Construction Standard 0461.10; "Grounding Electrodes for Handholes and Vaults"

SCL Material Standard 7203.76; "Precast Reinforced Concrete Transformer Pads"

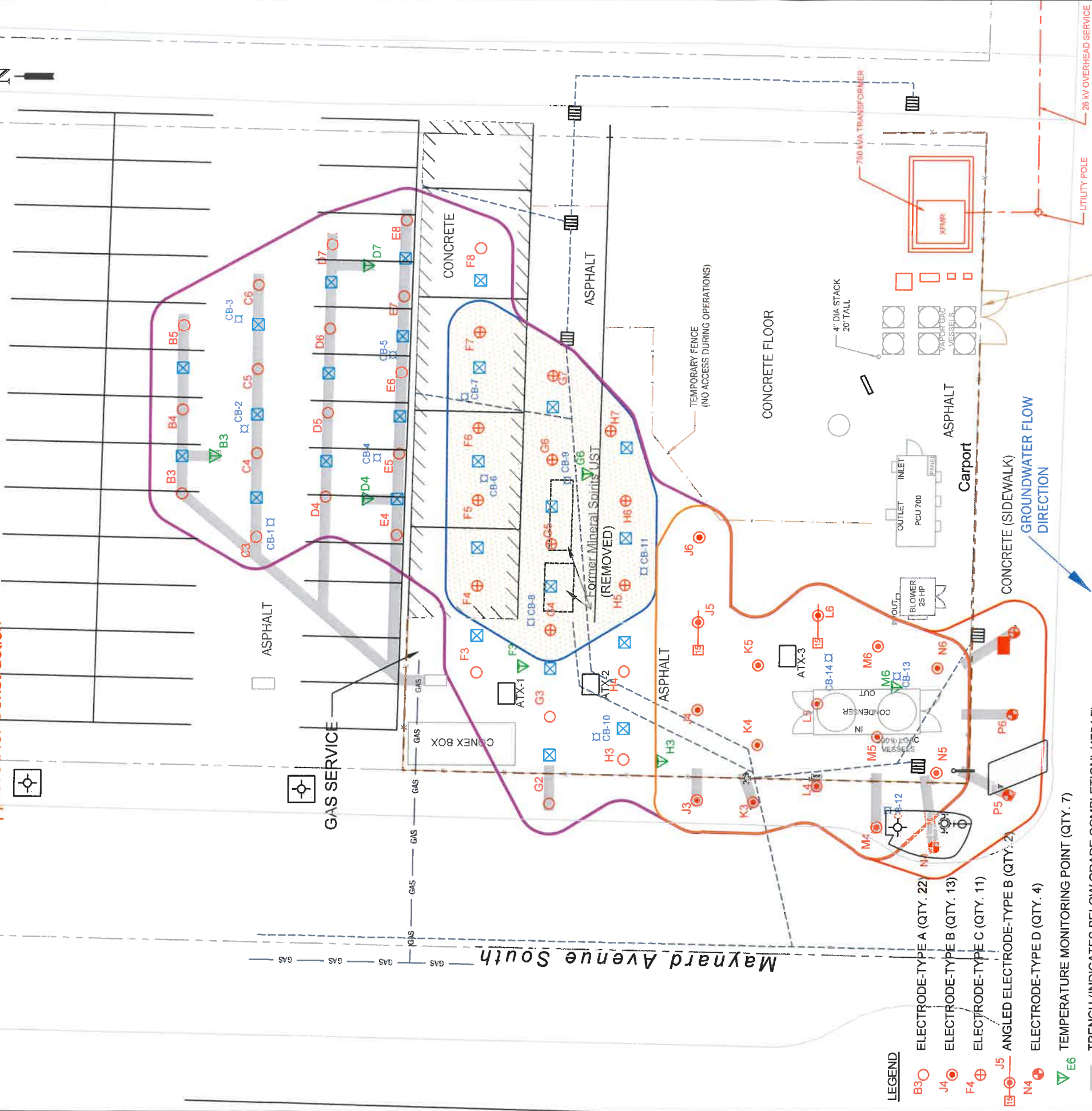
ATTACHMENT E

Site Plans

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PRELIMINARY

Not Approved for Construction



South Dearborn Street

LEGEND

- B3 ○ ELECTRODE-TYPE A (QTY. 22)
- J4 ○ ELECTRODE-TYPE B (QTY. 13)
- F4 ⊕ ELECTRODE-TYPE C (QTY. 11)
- E5 ⊕ ANGLD ELECTRODE-TYPE B (QTY. 2)
- N4 ⊕ ELECTRODE-TYPE D (QTY. 4)
- E6 ▽ TEMPERATURE MONITORING POINT (QTY. 7)
- TRENCH (INDICATES BELOW GRADE COMPLETION) (475 LF)
- ⊠ VAPOR RECOVER POINT (QTY. 26)
- CONFIRMATION SOIL BORING
- TREATMENT AREA A DEPTH 4'-26" (4,778 SQ. FT.)
- TREATMENT AREA B DEPTH 6.5'-26" (2,682 SQ. FT.)
- TREATMENT AREA C DEPTH 1'-26" (2,081 SQ. FT.)
- TREATMENT AREA D DEPTH 10'-26" (810 SQ. FT.)
- - - STORM SEWER
- GAS
- SURFACE INSULATION
- STREET LIGHT
- ⊕ FIRE HYDRANT
- ⊕ UTILITY POLE
- SIGN
- BRICK AREA

- GAS
- SURFACE INSULATION
- STREET LIGHT
- ⊕ FIRE HYDRANT
- ⊕ UTILITY POLE
- SIGN
- BRICK AREA

SPECIAL DISTRICT AND LANDMARK REVIEW

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TR
Accelerating Value

TRS GROUP, INC. 338 COMMERCE AVE., SUITE 304, LONGVIEW, WA 98032

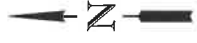
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DESIGNED BY D. SEILER	SITE LOCATION SPIC N SPAN CLEANERS SITE SEATTLE, WASHINGTON
DRAWN BY A. PEABODY	CLIENT SPIC N SPAN
CHECKED BY PENDING APPROVAL	APPROVED FOR CONSTRUCTION BY _____ DATE _____
PROJECT MANAGER J. ROOT	DATE 2018.SEP.17
QSAT REVIEW xx/xx/xx	PROJECT WA.SNS.1067
	SHEET Y-2

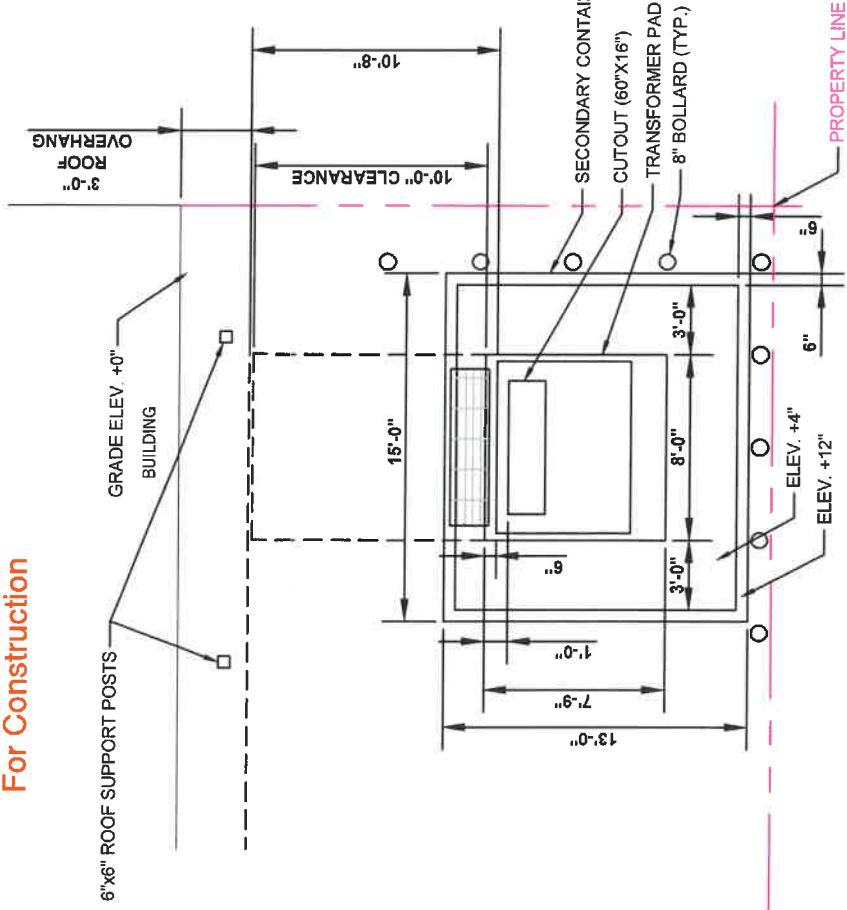
PREVIOUS SITE PLAN WITH PROPOSED DESIGN



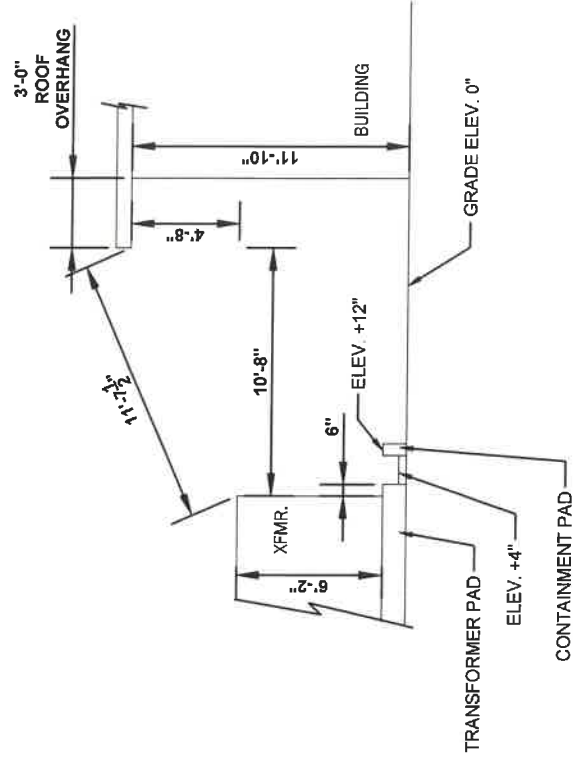
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For Construction



Detail plan and elevation view of final dimensions of transformer and secondary containment.



PLAN



ELEVATION

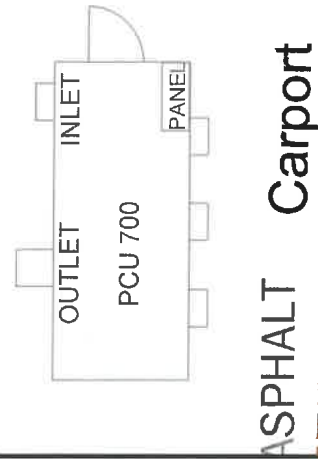
Plan view of southeast corner of site, showing Seattle City Light transformer located outside of fence mural.

CONCRETE FLOOR

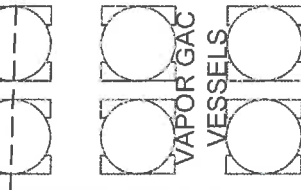


4" DIA STACK
20' TALL

750 KVA TRANSFORMER
NON-COMBUSTIBLE,
NON-CONDUCTIVE
STANDING GRATE



ASPHALT Carport



CONCRETE (SIDEWALK)

SPECIAL DISTRICT AND LANDMARK REVIEW

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OPERATIONS FENCE
South Dearborn Street

UTILITY POLE

26 KV OVERHEAD SERVICE

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DRAWN BY A. PEABODY	LOCATION SEATTLE, WASHINGTON
CHECKED BY C. CROWNOVER	CLIENT SPIC N SPAN
PROJECT MANAGER J. ROOT	APPROVED FOR CONSTRUCTION BY _____
QSAT REVIEW 2019.AUG.14	DATE 2019.AUG.16
	PROJECT WA.SNS.1067

NEW SITE PLAN WITH PROPOSED DESIGN CHANGES

DATE
SHEET

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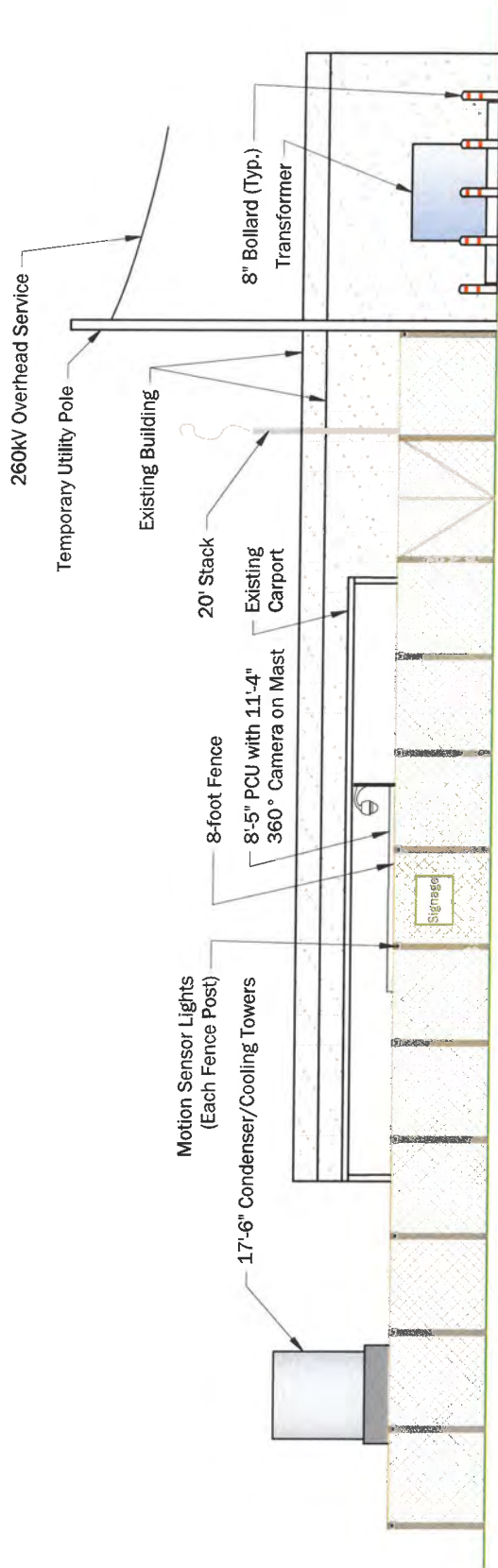
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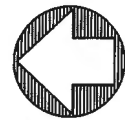
ATTACHMENT F

Scale Drawings

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South Elevation
(South Dearborn Street)



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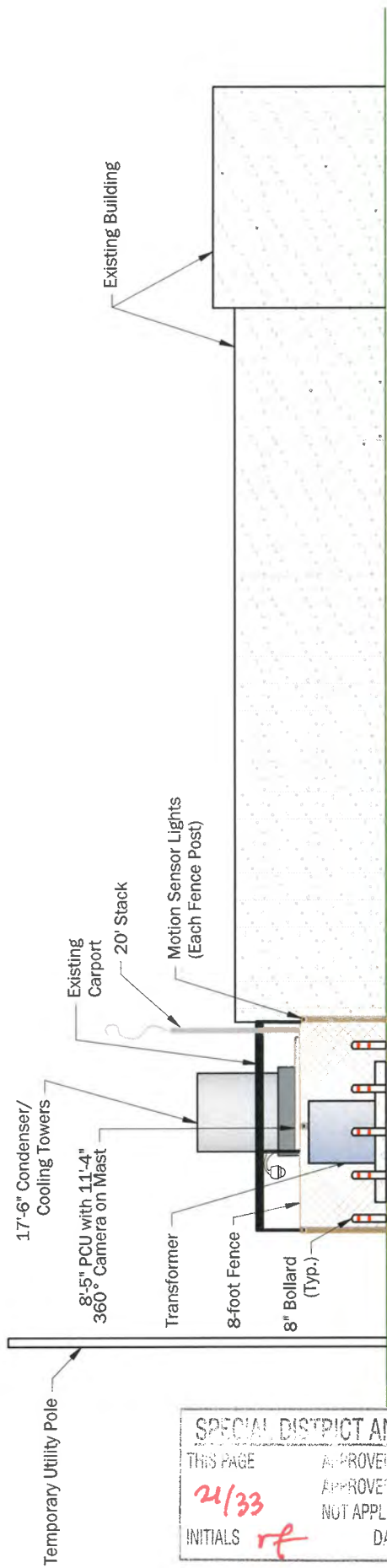
South Elevation View
 Spic 'n Span Cleaners
 International Special Review District Board Application
 Seattle, Washington



Sep-2019
 PROJECT NO.
 060172

BY
 DIM/CMV
 REVISED BY

FIGURE NO.
1



East Elevation
(Alley)

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East Elevation View
Spic 'n Span Cleaners
International Special Review District Board Application
Seattle, Washington



Sep-2019	BY DIM/CMV	FIGURE NO. 2
PROJECT NO. 060172	REVISED BY	



North Elevation



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North Elevation View
 Spic 'n Span Cleaners
 International Special Review District Board Application
 Seattle, Washington



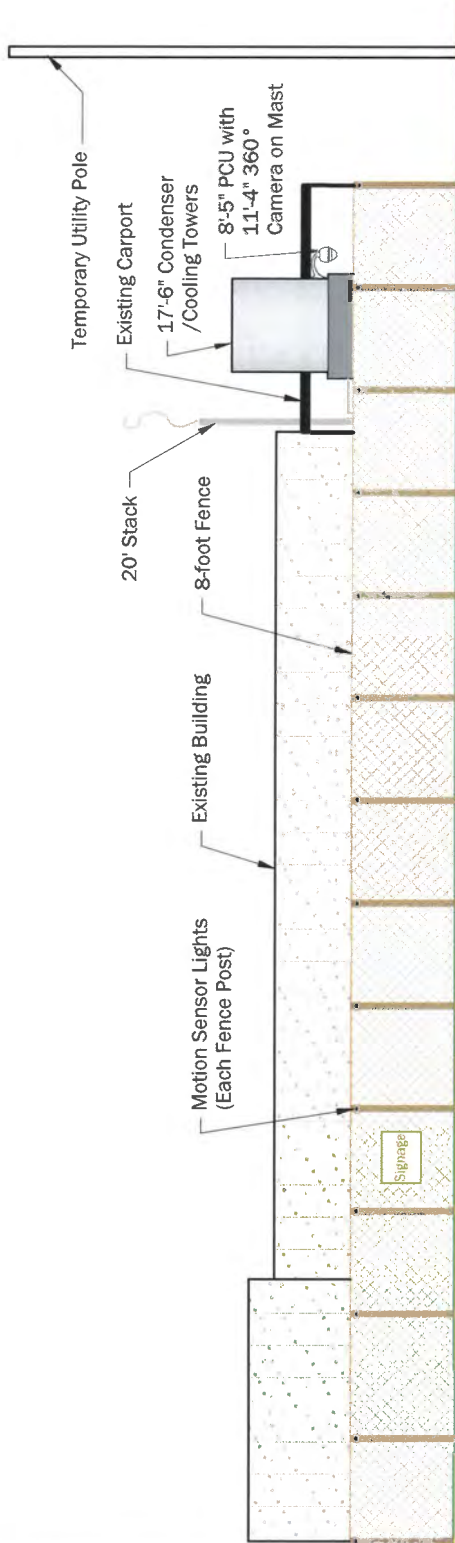
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 DIM/CMV
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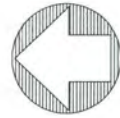
FIGURE NO.
3

SPECIAL DISTRICT AND LANDMARK REVIEW

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**West Elevation
(Maynard Avenue South)**



West Elevation View
 Spic 'n Span Cleaners
 International Special Review District Board Application
 Seattle, Washington



Sep-2019
 PROJECT NO.
 060172

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FIGURE NO.
4

ATTACHMENT G

Photographs of Existing Features

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View of proposed transformer location from the sidewalk along S Dearborn St. Location of transformer containment pad is marked in white paint. Fence with mural will end where white X's are marked.

SPECIAL DISTRICT AND LANDMARK REVIEW	
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25/33	APPROVED W/CONDITIONS <input checked="" type="checkbox"/>
INITIALS VF	NOT APPLICABLE
	DATE 2/10/20

ATTACHMENT H

Photographs of Similar Projects

SPECIAL DISTRICT AND LANDMARK REVIEW	
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26/33	APPROVED W/CONDITIONS <input checked="" type="checkbox"/>
INITIALS rf	NOT APPLICABLE
	DATE 2/10/20



Example of similar transformer with secondary containment, provided by Seattle City Light.



Example of transformer with secondary containment from a similar thermal remediation project.

SPECIAL DISTRICT AND LANDMARK REVIEW	
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27/33	APPROVED W/CONDITIONS <input checked="" type="checkbox"/>
INITIALS rf	NOT APPLICABLE
	DATE 2/10/20

ATTACHMENT I

Transformer Pad and Bollard Construction Details

SPECIAL DISTRICT AND LANDMARK REVIEW	
THIS PAGE	APPROVED _____
28/33	APPROVED W/CONDITIONS <input checked="" type="checkbox"/>
INITIALS rf	NOT APPLICABLE
	DATE 2/10/20

Transformer Pad and Bollard Construction Details

Transformer Pad

The transformer pad and secondary containment will be constructed per the Seattle City Light Guidance 0724.50 (Attachment D). The containment pad will extend 1.5 feet below grade at each corner for structural support, and six different conduits will extend from the center of the transformer below grade. See attached scale view.

Bollards

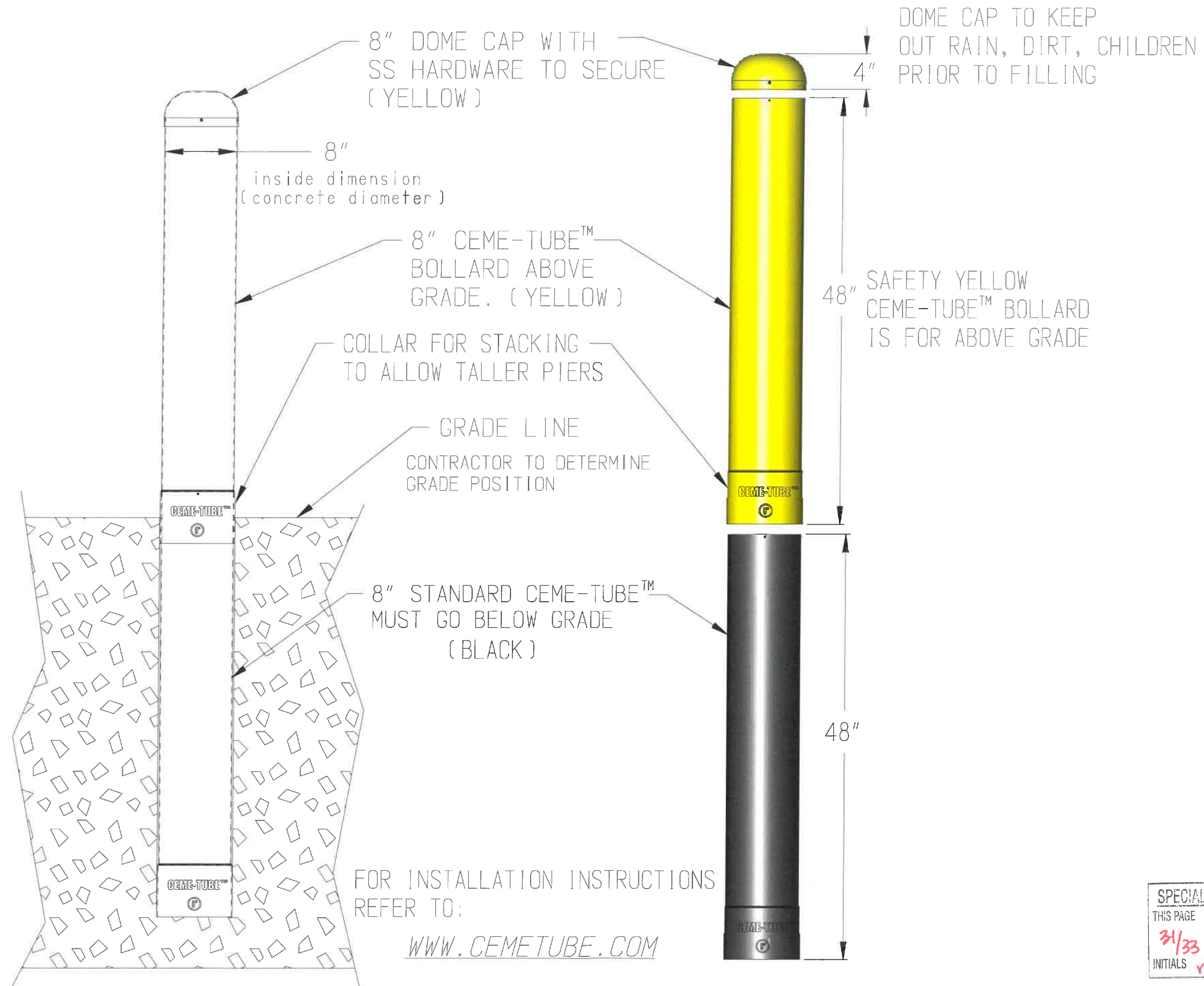
Per the Seattle City Light Guidance 0724.50 (Attachment D), bollards will be installed around the transformer pad along S Dearborn St and the alley to the east of the Spic N Span building to protect it from vehicle damage. The bollards must be highly visible, non-conductive 8-inch diameter by 8-foot long rigid posts, and must be installed to a depth of 4 feet below grade and filled with concrete and rebar per the manufacturer's instructions. The selected bollard is produced by Ceme-Tube (see attached specifications), constructed of HDPE, and fulfills all the Seattle City Light requirements. The Ceme-Tube bollards come in a highly visible traffic yellow color that is also reflective at night.



Example photo of Ceme-Tube bollards.

SPECIAL DISTRICT AND LANDMARK REVIEW	
THIS PAGE	APPROVED _____
29/33	APPROVED W/CONDITIONS <input checked="" type="checkbox"/>
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	DATE 2/10/20

8" CEMETUBE™ BOLLARD ASSEMBLY



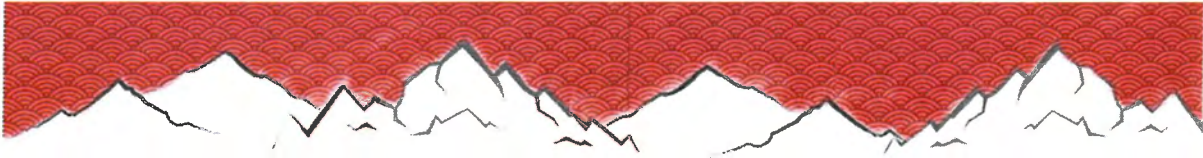
SPECIAL DISTRICT AND LANDMARK REVIEW	
THIS PAGE	APPROVED
31/33	APPROVED W/CONDITIONS <input checked="" type="checkbox"/>
INITIALS RF	NOT APPLICABLE
	DATE 2/10/20

ATTACHMENT J

Final Mural Design

SPECIAL DISTRICT AND LANDMARK REVIEW	
THIS PAGE	APPROVED _____
321/33	APPROVED W/CONDITIONS <input checked="" type="checkbox"/>
	NOT APPLICABLE _____
INITIALS <i>rf</i>	DATE <i>2/10/20</i>

The final mural design created by Urban Artworks for the construction fence at 652 S Dearborn St is shown in photographs 1 and 2. The mural was painted on a black woven polypropylene privacy screen, and the dimensions are 8 feet in height by 270 feet in length (divided into three 50-foot sections and two 10-foot sections for the fence gate). In the event of any graffiti, the mural will be spray painted white to cover it.



Photograph 1. Mock-up of final fence mural design by Urban Artworks.



Photograph 2. Finished fence mural.

SPECIAL DISTRICT AND LANDMARK REVIEW	
THIS PAGE	APPROVED _____
33/33	APPROVED W/CONDITIONS <input checked="" type="checkbox"/>
INITIALS rf	NOT APPLICABLE _____
	DATE 2/10/20



King County

Wastewater Treatment Division

Industrial Waste Program

Department of Natural Resources and Parks

201 South Jackson Street, Suite 513
Seattle, WA 98104-3855

206-477-5300 Fax 206-263-3001
TTY Relay: 711

January 24, 2020

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Delia Massey
Aspect Consulting
710 2nd Ave Suite 550
Seattle, WA 98104

Issuance of Wastewater Discharge Authorization No. 1110-01 to Spic'n Span Cleaners, Inc.

Dear Ms. Delia Massey:

The King County Industrial Waste Program (KCIW) has reviewed your application to discharge industrial wastewater to the sewer system from the Spic'n Span Cleaners, Inc. facility located at 652 Dearborn St, Seattle, Washington, and has issued the enclosed Minor Discharge Authorization.

This authorization permits you to discharge limited amounts of industrial wastewater into King County's sewer system in accordance with the effluent limitations and other requirements and conditions set forth in the document and the regulations outlined in King County Code 28.84.060 (enclosed). As long as you maintain compliance with regulations and do not change the nature and volume of your discharge, KCIW will not require you to apply for an industrial wastewater discharge permit, a type of approval that would result in additional requirements and increased fees.

If you propose to increase the volume of your discharge or change the type or quantities of substances discharged, you must contact KCIW at least 60 days before making these changes.

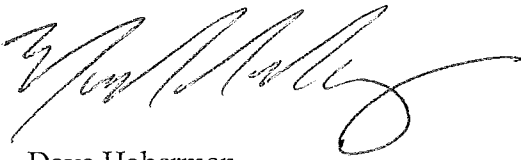
King County Code 28.84 authorizes a fee for each Minor Discharge Authorization issued by the King County Department of Natural Resources and Parks. The current fee for issuance of a new Minor Discharge Authorization is \$2000. King County will send you an invoice for this amount. King County will send you an invoice for this amount.

Delia Massey
January 24, 2020
Page 2

If you have any questions about this discharge authorization or your wastewater discharge, please call me at 206-477-5465 or email me at dave.haberman@kingcounty.gov. You may also wish to visit our program's Internet pages at: www.kingcounty.gov/industrialwaste.

Thank you for helping support our mission to protect public health and enhance the environment.

Sincerely,



POA Dave Haberman
Compliance Investigator

Enclosures

cc: Julie Howell, Seattle Public Utilities



King County

MINOR DISCHARGE AUTHORIZATION

King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855

NUMBER 1110-01

for

Spic'n Span Cleaners, Inc.

Facility address: 652 Dearborn St, Seattle, Washington

Mailing address: 710 2nd Ave Suite 550, Seattle, WA 98104

Phone: 206-812-4749

Emergency (24-hour) phone: 860-368-9745

Industry type: Groundwater Remediation - Organics

SIC code: 7216 **EPA Id. No.:** NA

Discharge to: West Point

*Note: This authorization is valid only for the specific discharges shown below:

Discharge process: Wastewater generated by contaminated groundwater remediation operation

Effective date: February 1, 2020

Expiration date: February 1, 2022

DESCRIPTION OF SAMPLE SITES AND DISCHARGE VOLUMES

Sample Site No.	Description	Maximum Volume (gallons per day)	
		Industrial	Total
IW1459A	Outlet off treatment system	5,000	5,000

Permission is hereby granted to discharge industrial wastewater from the above-identified facility into the King County sewer system in accordance with the effluent limitations and monitoring requirements set forth in this authorization.

If the industrial user wishes to continue to discharge after the expiration date, an application must be filed for re-issuance of this discharge authorization at least 90 days prior to the expiration date. For information concerning this King County Discharge Authorization, please call Industrial Waste Compliance Investigator Dave Haberman at 206-477-5465.

24-HOUR EMERGENCY NOTIFICATION

West Point Treatment Plant: 206-263-3801
Washington State Department of Ecology: 425-649-7000.

SPECIAL CONDITIONS

A. Screening Levels for Selected Organic Compounds

Discharges that exceed the following screening levels have the potential to cause health hazards in the sewage collection system or indicate that treatment has not been sufficient to remove hazardous waste characteristics.

Compound	CAS Number	Wastewater Screening Level (mg/L)
Tetrachloroethylene (PCE)	127-18-4	0.24
Trichloroethylene (TCE)	79-01-6	0.5
Cis-1,2-Dichloroethylene	153-59-2	1.0
Trans-1,2-Dichloroethylene	156-60-5	1.0
Vinyl Chloride	75-01-4	0.012

B. Sampling for GAC Breakthrough

Sampling after the lead granular activated carbon (GAC) treatment vessel shall occur at least monthly and shall include the following parameters: Tetrachloroethene, Trichloroethene, 1,2-Dichloroethenes (both *cis*- and *trans*-), vinyl chloride, and quarterly for non-polar fats, oils, and grease (FOG) per EPA Method 1664.

If concentrations of organic compounds exceed 50 percent of screening levels the permittee shall notify KCIW within 24 hours of receiving analytical data. KCIW will review information submitted and may require installation of additional granulated activated carbon filtration system (GAC) or other operational changes as deemed necessary.

C. Reporting Requirements for Organic Compounds

1. The permittee shall indicate on the self-monitoring report whether the organic chemical monitoring results exceed any of the screening levels listed above.
2. Whenever the permittee's self-monitoring results exceed the screening level, the permittee shall submit a plan indicating the steps that will be taken to ensure that organic compound discharges do not exceed screening levels. The report:
 - a. Shall be submitted within 30 days of the self-monitoring report that shows organic compound discharges exceed screening levels
 - b. Shall indicate the steps that will be taken to reduce organic chemical concentrations so that they remain consistently below screening levels within 60 days

- c. May be used by the permittee or King County to evaluate the adequacy of your pretreatment system and other best management practices in order to identify whether additional waste characterization needs to be performed or additional operational and structural upgrades are needed that will enable you to consistently meet King County organic compound screening levels.

SELF-MONITORING REQUIREMENTS

A. The following self-monitoring requirements shall be met for this discharge authorization:

Sample Site No.	Parameter	Sample Type	Frequency
IW1459A	Daily Discharge Rate	Meter	Continuous
	Flow Rate	Meter	Continuous
	1,1,2,2-Tetrachloroethane	Grab	Monthly
	1,1,2-Trichloroethylene	Grab	Monthly
	Cis-1,2-Dichloroethylene	Grab	Monthly
	Trans-1,2-Dichloroethylene	Grab	Monthly
	Vinyl Chloride	Grab	Monthly
	Nonpolar FOG	3 grabs ^C	Quarterly
	Settleable solids	Grab ^D (by Imhoff cone)	Only if operating criteria are exceeded
	Hydrogen sulfide	Meter reading	Only if operating criteria are exceeded
	Explosivity	Meter reading	Only if operating criteria are exceeded

B. You shall submit an end-of project self-monitoring report (form enclosed) within **15** days from completion of all construction dewatering activities to the sewer or by **February 15, 2022**, whichever comes first. The report must contain results of required self-monitoring and total volume discharged to the sewer.

C. The three nonpolar fats, oils, and grease (FOG) grab samples shall be of equal volume, collected at least five minutes apart, and analyzed separately. When using U.S. Environmental Protection Agency approved protocols specified in 40 CFR Part 136, the individual grab samples may be composited (at the laboratory) prior to analysis. The result of the composite sample or the average of the concentrations of the three grab samples may be reported as Total FOG unless the value is 100 mg/L or greater, in which case the concentration of nonpolar FOG must be reported.

D. Settleable solids field test by Imhoff cone must be performed as follows:

1. Fill Imhoff cone to one-liter mark with well-mixed sample
2. Allow 45 minutes to settle
3. Gently stir sides of cone with a rod or by spinning; settle 15 minutes longer
4. Record volume of settleable matter in the cone as mL/L

E. If a violation of any discharge limits or operating criteria is detected in monitoring, you shall notify KCIW immediately upon receipt of analytical data.

F. A self-monitoring report shall be filed with KCIW no later than the 15th day of the period following the sample collection (i.e., the 15th day of the following month for monthly,

weekly, daily samples; the 15th day of the following quarter for quarterly samples). If no discharge takes place during any monitoring period, it shall be noted on the report.

- G. All self-monitoring data submitted to KCIW, which required a laboratory analysis, must have been performed by a laboratory accredited by the Washington State Department of Ecology for each parameter tested, using procedures approved by 40 CFR 136. This does not apply to field measurements performed by the industrial user such as pH, temperature, flow, atmospheric hydrogen sulfide, total dissolved sulfides, total settleable solids by Imhoff cone, or process control information.
- H. All sampling data collected by the permittee and analyzed using procedures approved by 40 CFR 136 or approved alternatives shall be submitted to KCIW whether required as part of this authorization or done voluntarily by the permittee.
- I. Self-monitoring reports shall be signed by an authorized representative of the industrial user. The authorized representative of the industrial user is defined as:
 - 1. The president, secretary, treasurer, or a vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation
 - 2. The manager of one or more manufacturing, production, or operating facilities, but only if the manager:
 - a. Is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations
 - b. Can ensure that the necessary systems are established or actions taken to gather complete and accurate information for control mechanism requirements and knowledgeable of King County reporting requirements
 - c. Has been assigned or delegated the authority to sign documents, in accordance with corporate procedures
 - 3. A general partner or proprietor if the industrial user is a partnership or proprietorship, respectively
 - 4. A director or highest official appointed or designated to oversee the operation and performance of the industry if the industrial user is a government agency
 - 5. The individuals described in one through four above may designate an authorized representative if:
 - a. The authorization is submitted to King County in writing.

- b. The authorization specifies the individual or position responsible for the overall operation of the facility from which the discharge originates or having overall responsibility for environmental matters for the company or agency.

GENERAL DISCHARGE LIMITATIONS

Operating criteria

There shall be no odor of solvent, gasoline, or hydrogen sulfide (rotten egg odor), oil sheen, unusual color, or visible turbidity. The discharge must remain translucent. If any of the discharge limits are exceeded, you must stop discharging and notify KCIW at 206-477-5300.

Corrosive substances

Limits

Maximum:	pH 12.0 (s.u.)
Instantaneous minimum:	pH 5.0 (s.u.)
Daily minimum:	pH 5.5 (s.u.)

The instantaneous minimum pH limit is violated whenever any single grab sample or any instantaneous recording is less than pH 5.0. The daily minimum pH limit is violated whenever any continuous recording of 15 minutes or longer remains below pH 5.5 or when each pH value of four consecutive grab samples collected at 15-minute intervals or longer within a 24-hour period remains below pH 5.5.

Discharges of more than 50 gallons per day of caustic solutions equivalent to more than 5 percent NaOH by weight or greater than pH 12.0 are prohibited unless authorized by KCIW and subject to special conditions to protect worker safety, the collection system, and treatment works.

Fats, oils, and grease

Discharge of FOG shall not result in significant accumulations that either alone or in combination with other wastes are capable of obstructing flow or interfere with the operation or performance of sewer works or treatment facilities.

Dischargers of polar FOG (oil and grease from animal and/or vegetable origin) shall minimize free-floating polar FOG. Dischargers may not add emulsifying agents exclusively for emulsifying free-floating FOG.

Nonpolar FOG limit: 100 mg/L

The limit for nonpolar FOG is violated when the arithmetic mean of the concentration of three grab samples, taken no more frequently than at five minute intervals, or when the results of a composite sample exceed the limitation.

Flammable or explosive materials

No person shall discharge any pollutant, as defined in 40 CFR 403.5, that creates a fire or explosion hazard in any sewer or treatment works, including, but not limited to, waste streams with a closed cup flashpoint of less than 140° Fahrenheit or 60° Centigrade using the test methods specified in 40 CFR 261.21.

At no time shall two successive readings on an explosion hazard meter, at the point of discharge into the system (or at any point in the system), be more than 5 percent nor any single reading be more than 10 percent of the lower explosive limit (LEL) of the meter.

Pollutants subject to this prohibition include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, and sulfides, and any other substances that King County, the fire department, Washington State, or the U.S. Environmental Protection Agency has notified the user are a fire hazard or a hazard to the system.

Petroleum Compounds	Maximum Concentration ppm (mg/L)
Benzene	0.07
Ethylbenzene	1.7
Toluene	1.4
Total xylenes	2.2

Heavy metals/cyanide

The industrial user shall not discharge wastes, which exceed the following limitations:

Heavy Metals & Cyanide	Daily Maximum ppm (mg/L)¹
Arsenic	4.0
Cadmium	0.6
Chromium	5.0
Copper	8.0
Lead	4.0
Mercury	0.2
Nickel	5.0
Silver	3.0
Zinc	10.0
Cyanide	3.0

¹ The daily maximum is violated whenever any sample exceeds the limitation.

High temperature

The industrial user shall not discharge material with a temperature in excess of 65° C (150° F).

Hydrogen sulfide

Atmospheric hydrogen sulfide: 10.0 ppm
(As measured at a monitoring maintenance hole designated by KCIW)

Soluble sulfide limits may be established on a case-by-case basis depending upon volume of discharge and conditions in the receiving sewer, including oxygen content and existing sulfide concentrations.

Organic compounds

No person shall discharge any organic pollutants that result in the presence of toxic gases, vapors, or fumes within a public or private sewer or treatment works in a quantity that may cause worker health and safety problems.

Organic pollutants subject to this restriction include, but are not limited to: Any organic pollutants compound listed in 40 CFR Section 433.11 (e) (total toxic organics [TTO] definition), acetone, 2-butanone (MEK), 4-methyl-2-pentanone (MIBK), and xylenes.

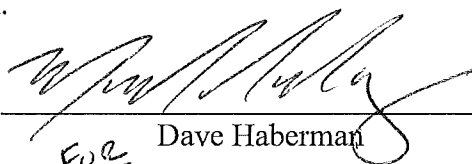
Settleable solids

Settleable solids concentrations: 7.0 ml/L

GENERAL CONDITIONS

- A. All requirements of King County Code pertaining to the discharge of wastes into the municipal sewer system are hereby made a condition of this discharge authorization.
- B. The industrial discharger shall implement measures to prevent accidental spills or discharges of prohibited substances to the municipal sewer system. Such measures include, but are not limited to, secondary containment of chemicals and wastes, elimination of connections to the municipal sewer system, and spill response equipment.
- C. Any facility changes, which will result in a change in the character or volume of the pollutants discharged to the municipal sewer system, must be reported to your KCIW representative. Any facility changes that will cause the violation of the effluent limitations specified herein will not be allowed.
- D. In the event the permittee is unable to comply with any of the conditions of this discharge authorization because of breakdown of equipment or facilities, an accident caused by human error, negligence, or any other cause, such as an act of nature the company shall:
 - 1. Take immediate action to stop, contain, and clean up the unauthorized discharges and correct the problem.
 - 2. Immediately notify KCIW and, if after 5 p.m. weekdays and on weekends, call the emergency King County treatment plant phone number on Page 1 so steps can be taken to prevent damage to the sewer system.
 - 3. Submit a written report within 14 days of the event (*14-Day Report*) describing the breakdown, the actual quantity and quality of resulting waste discharged, corrective action taken, and the steps taken to prevent recurrence.
- E. Compliance with these requirements does not relieve the permittee from responsibility to maintain continuous compliance with the conditions of this discharge authorization or the resulting liability for failure to comply.
- F. The permittee shall, at all reasonable times, allow authorized representatives of KCIW to enter that portion of the premises where an effluent source or disposal system is located or in which any records are required to be kept under the terms and conditions of this authorization.
- G. Nothing in this discharge authorization shall be construed as excusing the permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations including discharge into waters of the state. Any such discharge is subject to regulation and enforcement action by the Washington State Department of Ecology.
- H. This discharge authorization does not authorize discharge after its expiration date. If the permittee wishes to continue to discharge after the expiration date, an application must be filed for reissuance of this discharge authorization at least 90 days prior to the expiration date. If the permittee submits its reapplication in the time specified herein, the permittee shall be deemed to have an effective wastewater discharge authorization until KCIW issues or denies the new wastewater discharge authorization. If the permittee fails to file its reapplication in the period specified herein, the permittee will be deemed to be discharging without authorization.

Compliance Investigator:


FOR Dave Haberman

Date: January 24, 2020

7019 1120 0000 2926 2240

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Sen	Delia Massey
Stre	Aspect Consulting
City	710 2nd Ave Suite 550
	Seattle, WA 98104



King County

Wastewater Treatment Division

Industrial Waste Program

Department of Natural Resources and Parks

201 South Jackson Street, Suite 513

Seattle, WA 98104-3855

206-477-5300 Fax 206-263-3001

TTY Relay: 711

December 9, 2021

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Delia Massey
Aspect Consulting
710 2nd Ave Suite 550
Seattle, WA 98104

Extension of Wastewater Discharge Authorization No. 1110-01 to Spic'n Span Cleaners, Inc.

Dear Ms. Delia Massey:

The King County Industrial Waste Program (KCIW) has reviewed your application and request to extend the due date to discharge industrial wastewater to the sewer system from the Spic'n Span Cleaners, Inc. facility located at 652 Dearborn St, Seattle, Washington, and has issued the enclosed Minor Discharge Authorization.

This authorization permits you to discharge limited amounts of industrial wastewater into King County's sewer system in accordance with the effluent limitations and other requirements and conditions set forth in the document and the regulations outlined in King County Code 28.84.060 (enclosed). As long as you maintain compliance with regulations and do not change the nature and volume of your discharge, KCIW will not require you to apply for an industrial wastewater discharge permit, a type of approval that would result in additional requirements and increased fees.

If you propose to increase the volume of your discharge or change the type or quantities of substances discharged, you must contact KCIW at least 60 days before making these changes.

King County Code 28.84 authorizes a fee for each Minor Discharge Authorization issued by the King County Department of Natural Resources and Parks. The current fee for issuance of a new Minor Discharge Authorization is \$2000. King County will send you an invoice for this amount. King County will send you an invoice for this amount.

Delia Massey
December 9, 2021
Page 2

If you have any questions about this discharge authorization or your wastewater discharge, please call me at 206-477-5465 or email me at dave.haberman@kingcounty.gov. You may also wish to visit our program's Internet pages at: www.kingcounty.gov/industrialwaste.

Thank you for helping support our mission to protect public health and enhance the environment.

Sincerely,

Dave Haberman
Compliance Investigator

Enclosures

cc: Julie Howell, Seattle Public Utilities



King County

MINOR DISCHARGE AUTHORIZATION

King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855

NUMBER 1110-01

for

Spic'n Span Cleaners, Inc.

Facility address: 652 Dearborn St, Seattle, Washington

Mailing address: 710 2nd Ave Suite 550, Seattle, WA 98104

Phone: 206-812-4749

Emergency (24-hour) phone: 860-368-9745

Industry type: Groundwater Remediation - Organics

SIC code: 7216 **EPA Id. No.:** NA

Discharge to: West Point

*Note: This authorization is valid only for the specific discharges shown below:

Discharge process: Wastewater generated by contaminated groundwater remediation operation

Effective date: February 1, 2020

Revised Expiration date: February 1, 2023

DESCRIPTION OF SAMPLE SITES AND DISCHARGE VOLUMES

Sample Site No.	Description	Maximum Volume (gallons per day)	
		Industrial	Total
IW1459A	Outlet off treatment system	5,000	5,000

Permission is hereby granted to discharge industrial wastewater from the above-identified facility into the King County sewer system in accordance with the effluent limitations and monitoring requirements set forth in this authorization.

If the industrial user wishes to continue to discharge after the expiration date, an application must be filed for re-issuance of this discharge authorization at least 90 days prior to the expiration date. For information concerning this King County Discharge Authorization, please call Industrial Waste Compliance Investigator Dave Haberman at 206-477-5465.

24-HOUR EMERGENCY NOTIFICATION

West Point Treatment Plant: 206-263-3801

Washington State Department of Ecology: 425-649-7000

SPECIAL CONDITIONS

A. Screening Levels for Selected Organic Compounds

Discharges that exceed the following screening levels have the potential to cause health hazards in the sewage collection system or indicate that treatment has not been sufficient to remove hazardous waste characteristics.

Compound	CAS Number	Wastewater Screening Level (mg/L)
Tetrachloroethylene (PCE)	127-18-4	0.24
Trichloroethylene (TCE)	79-01-6	0.5
Cis-1,2-Dichloroethylene	153-59-2	1.0
Trans-1,2-Dichloroethylene	156-60-5	1.0
Vinyl Chloride	75-01-4	0.012

B. Reporting Requirements for Organic Compounds

1. The permittee shall indicate on the self-monitoring report whether the organic chemical monitoring results exceed any of the screening levels listed above.
2. Whenever the permittee's self-monitoring results exceed the screening level, the permittee shall submit a plan indicating the steps that will be taken to ensure that organic compound discharges do not exceed screening levels. The report:
 - a. Shall be submitted within 30 days of the self-monitoring report that shows organic compound discharges exceed screening levels
 - b. Shall indicate the steps that will be taken to reduce organic chemical concentrations so that they remain consistently below screening levels within 60 days
 - c. May be used by the permittee or King County to evaluate the adequacy of your pretreatment system and other best management practices in order to identify whether additional waste characterization needs to be performed or additional operational and structural upgrades are needed that will enable you to consistently meet King County organic compound screening levels.

SELF-MONITORING REQUIREMENTS

A. The following self-monitoring requirements shall be met for this discharge authorization:

Sample Site No.	Parameter	Sample Type	Frequency
IW1459A	Daily Discharge Rate	Meter	Continuous
	Flow Rate	Meter	Continuous
	1,1,2,2-Tetrachloroethane	Grab	Monthly
	1,1,2-Trichloroethylene	Grab	Monthly
	Cis-1,2-Dichloroethylene	Grab	Monthly
	Trans-1,2-Dichloroethylene	Grab	Monthly
	Vinyl Chloride	Grab	Monthly
	Nonpolar FOG	3 grabs ^C	Quarterly
	Settleable solids	Grab ^D (by Imhoff cone)	Only if operating criteria are exceeded
	Hydrogen sulfide	Meter reading	Only if operating criteria are exceeded
	Explosivity	Meter reading	Only if operating criteria are exceeded

- B. You shall submit an end-of project self-monitoring report (form enclosed) within **15** days from completion of all construction dewatering activities to the sewer or by **February 15, 2023**, whichever comes first. The report must contain results of required self-monitoring and total volume discharged to the sewer.
- C. The three nonpolar fats, oils, and grease (FOG) grab samples shall be of equal volume, collected at least five minutes apart, and analyzed separately. When using U.S. Environmental Protection Agency approved protocols specified in 40 CFR Part 136, the individual grab samples may be composited (at the laboratory) prior to analysis. The result of the composite sample or the average of the concentrations of the three grab samples may be reported as Total FOG unless the value is 100 mg/L or greater, in which case the concentration of nonpolar FOG must be reported.
- D. Settleable solids field test by Imhoff cone must be performed as follows:
1. Fill Imhoff cone to one-liter mark with well-mixed sample
 2. Allow 45 minutes to settle
 3. Gently stir sides of cone with a rod or by spinning; settle 15 minutes longer
 4. Record volume of settleable matter in the cone as mL/L
- E. If a violation of any discharge limits or operating criteria is detected in monitoring, you shall notify KCIW immediately upon receipt of analytical data.
- F. A self-monitoring report shall be filed with KCIW no later than the 15th day of the period following the sample collection (i.e., the 15th day of the following month for monthly,

weekly, daily samples; the 15th day of the following quarter for quarterly samples). If no discharge takes place during any monitoring period, it shall be noted on the report.

- G. All self-monitoring data submitted to KCIW, which required a laboratory analysis, must have been performed by a laboratory accredited by the Washington State Department of Ecology for each parameter tested, using procedures approved by 40 CFR 136. This does not apply to field measurements performed by the industrial user such as pH, temperature, flow, atmospheric hydrogen sulfide, total dissolved sulfides, total settleable solids by Imhoff cone, or process control information.
- H. All sampling data collected by the permittee and analyzed using procedures approved by 40 CFR 136 or approved alternatives shall be submitted to KCIW whether required as part of this authorization or done voluntarily by the permittee.
- I. Self-monitoring reports shall be signed by an authorized representative of the industrial user. The authorized representative of the industrial user is defined as:
 - 1. The president, secretary, treasurer, or a vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation
 - 2. The manager of one or more manufacturing, production, or operating facilities, but only if the manager:
 - a. Is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations
 - b. Can ensure that the necessary systems are established or actions taken to gather complete and accurate information for control mechanism requirements and knowledgeable of King County reporting requirements
 - c. Has been assigned or delegated the authority to sign documents, in accordance with corporate procedures
 - 3. A general partner or proprietor if the industrial user is a partnership or proprietorship, respectively
 - 4. A director or highest official appointed or designated to oversee the operation and performance of the industry if the industrial user is a government agency
 - 5. The individuals described in one through four above may designate an authorized representative if:
 - a. The authorization is submitted to King County in writing.

- b. The authorization specifies the individual or position responsible for the overall operation of the facility from which the discharge originates or having overall responsibility for environmental matters for the company or agency.

GENERAL DISCHARGE LIMITATIONS

Operating criteria

There shall be no odor of solvent, gasoline, or hydrogen sulfide (rotten egg odor), oil sheen, unusual color, or visible turbidity. The discharge must remain translucent. If any of the discharge limits are exceeded, you must stop discharging and notify KCIW at 206-477-5300.

Corrosive substances

Limits

Maximum: pH 12.0 (s.u.)
Instantaneous minimum: pH 5.0 (s.u.)
Daily minimum: pH 5.5 (s.u.)

The instantaneous minimum pH limit is violated whenever any single grab sample or any instantaneous recording is less than pH 5.0. The daily minimum pH limit is violated whenever any continuous recording of 15 minutes or longer remains below pH 5.5 or when each pH value of four consecutive grab samples collected at 15-minute intervals or longer within a 24-hour period remains below pH 5.5.

Discharges of more than 50 gallons per day of caustic solutions equivalent to more than 5 percent NaOH by weight or greater than pH 12.0 are prohibited unless authorized by KCIW and subject to special conditions to protect worker safety, the collection system, and treatment works.

Fats, oils, and grease

Discharge of FOG shall not result in significant accumulations that either alone or in combination with other wastes are capable of obstructing flow or interfere with the operation or performance of sewer works or treatment facilities.

Dischargers of polar FOG (oil and grease from animal and/or vegetable origin) shall minimize free-floating polar FOG. Dischargers may not add emulsifying agents exclusively for emulsifying free-floating FOG.

Nonpolar FOG limit: 100 mg/L

The limit for nonpolar FOG is violated when the arithmetic mean of the concentration of three grab samples, taken no more frequently than at five minute intervals, or when the results of a composite sample exceed the limitation.

Flammable or explosive materials

No person shall discharge any pollutant, as defined in 40 CFR 403.5, that creates a fire or explosion hazard in any sewer or treatment works, including, but not limited to, waste streams with a closed cup flashpoint of less than 140° Fahrenheit or 60° Centigrade using the test methods specified in 40 CFR 261.21.

At no time shall two successive readings on an explosion hazard meter, at the point of discharge into the system (or at any point in the system), be more than 5 percent nor any single reading be more than 10 percent of the lower explosive limit (LEL) of the meter.

Pollutants subject to this prohibition include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, and sulfides, and any other substances that King County, the fire department, Washington State, or the U.S. Environmental Protection Agency has notified the user are a fire hazard or a hazard to the system.

Petroleum Compounds	Maximum Concentration ppm (mg/L)
Benzene	0.07
Ethylbenzene	1.7
Toluene	1.4
Total xylenes	2.2

Heavy metals/cyanide

The industrial user shall not discharge wastes, which exceed the following limitations:

Heavy Metals & Cyanide	Daily Maximum ppm (mg/L)¹
Arsenic	4.0
Cadmium	0.6
Chromium	5.0
Copper	8.0
Lead	4.0
Mercury	0.2
Nickel	5.0
Silver	3.0
Zinc	10.0
Cyanide	3.0

¹ The daily maximum is violated whenever any sample exceeds the limitation.

High temperature

The industrial user shall not discharge material with a temperature in excess of 65° C (150° F).

Hydrogen sulfide

Atmospheric hydrogen sulfide: 10.0 ppm
(As measured at a monitoring maintenance hole designated by KCIW)

Soluble sulfide limits may be established on a case-by-case basis depending upon volume of discharge and conditions in the receiving sewer, including oxygen content and existing sulfide concentrations.

Organic compounds

No person shall discharge any organic pollutants that result in the presence of toxic gases, vapors, or fumes within a public or private sewer or treatment works in a quantity that may cause worker health and safety problems.

Organic pollutants subject to this restriction include, but are not limited to: Any organic pollutants compound listed in 40 CFR Section 433.11 (e) (total toxic organics [TTO] definition), acetone, 2-butanone (MEK), 4-methyl-2-pentanone (MIBK), and xylenes.

Settleable solids

Settleable solids concentrations: 7.0 ml/L

GENERAL CONDITIONS

- A. All requirements of King County Code pertaining to the discharge of wastes into the municipal sewer system are hereby made a condition of this discharge authorization.
- B. The industrial discharger shall implement measures to prevent accidental spills or discharges of prohibited substances to the municipal sewer system. Such measures include, but are not limited to, secondary containment of chemicals and wastes, elimination of connections to the municipal sewer system, and spill response equipment.
- C. Any facility changes, which will result in a change in the character or volume of the pollutants discharged to the municipal sewer system, must be reported to your KCIW representative. Any facility changes that will cause the violation of the effluent limitations specified herein will not be allowed.
- D. In the event the permittee is unable to comply with any of the conditions of this discharge authorization because of breakdown of equipment or facilities, an accident caused by human error, negligence, or any other cause, such as an act of nature the company shall:
 - 1. Take immediate action to stop, contain, and clean up the unauthorized discharges and correct the problem.
 - 2. Immediately notify KCIW and, if after 5 p.m. weekdays and on weekends, call the emergency King County treatment plant phone number on Page 1 so steps can be taken to prevent damage to the sewer system.
 - 3. Submit a written report within 14 days of the event (*14-Day Report*) describing the breakdown, the actual quantity and quality of resulting waste discharged, corrective action taken, and the steps taken to prevent recurrence.
- E. Compliance with these requirements does not relieve the permittee from responsibility to maintain continuous compliance with the conditions of this discharge authorization or the resulting liability for failure to comply.
- F. The permittee shall, at all reasonable times, allow authorized representatives of KCIW to enter that portion of the premises where an effluent source or disposal system is located or in which any records are required to be kept under the terms and conditions of this authorization.
- G. Nothing in this discharge authorization shall be construed as excusing the permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations including discharge into waters of the state. Any such discharge is subject to regulation and enforcement action by the Washington State Department of Ecology.
- H. This discharge authorization does not authorize discharge after its expiration date. If the permittee wishes to continue to discharge after the expiration date, an application must be filed for reissuance of this discharge authorization at least 90 days prior to the expiration date. If the permittee submits its reapplication in the time specified herein, the permittee shall be deemed to have an effective wastewater discharge authorization until KCIW issues or denies the new wastewater discharge authorization. If the permittee fails to file its reapplication in the period specified herein, the permittee will be deemed to be discharging without authorization.

Compliance Investigator: _____ Date: December 9, 2021

Dave Haberman

May 3, 2019

Delia Massey
710 2nd Ave, Suite 550
Seattle, WA 98104

Service Address: 652 South Dearborn Street
Service Request #: 1509614
Project Description: Temporary Primary Service with overhead primary line extension

Dear Ms. Massey,

Seattle City Light has reviewed your request for electrical service. This Service Construction Letter provides Seattle City Light's cost estimate and scope of work for your project, general requirements, customer construction requirements, a construction requirements drawing and an acceptance form that must be signed and returned.

This letter is the only copy you will receive. Please disperse copies as necessary to your project team including consultants, contractors, or other parties involved with your electric service installation.

Please review the following attachments:

Attachment A - Seattle City Light Charges and Scope of Work.

This provides the charges and terms of the Seattle City Light work for your project and outlines the electrical service installation work Seattle City Light will perform.

Attachment B - General Customer Requirements.

Not every general requirement may be applicable to your project. If you have any questions, please contact your electric service representative.

Attachment C - Customer Construction Requirements.

Completion of these requirements is the customer's responsibility in order for Seattle City Light to complete the necessary electric service installation work. Also take note of the Construction Requirements Drawing and relevant Seattle City Light Construction Standards and/or Material Standards.

Attachment D - Service Construction Acceptance Form.

To indicate your approval of this Service Construction Letter and all the associated attachments, please sign and return Attachment D per the instructions indicated on that form. Seattle City Light will not proceed with the design or schedule Seattle City Light crews for your project until we receive the signed and dated form and the appropriate payments.

Sincerely,

Signed for Antonio Hernandez
Senior Electric Service Representative
(206) 386-1635



700 Fifth Avenue, P.O. Box 34023, Suite 3200, Seattle, WA 98124-4023

Tel: (206) 684-3000, TTY/TDD: (206) 684-3225, Fax: (206) 625-3709

An equal employment opportunity, affirmative action employer. Accommodations for people with disabilities provided upon request.



Attachment A: Seattle City Light Charges and Scope of Work

Service Construction Letter Dated May 3, 2019

Service Address: 652 South Dearborn Street

Service Request #: 1509614

Project Description: Temporary Primary Service with overhead primary line extension

AMOUNT DUE AT THIS TIME: \$20,967

- Twenty percent (20%) of the total project charge is due upon receipt of this letter. By paying this fee, Seattle City Light's engineer can finalize the design and installation crews can be scheduled to begin work. See the summary below for the breakdown of costs.

SUMMARY OF SEATTLE CITY LIGHT CHARGES

Time and Materials Charge: \$104,836

- A final billing will be rendered to adjust for the actual time and materials after the installation is complete. Any refund amount due will be paid to and sent to the invoiced party.

Total Project Charge: \$104,836

Twenty Percent Fee: \$20,967

TERMS AND CONDITIONS

Seattle City Light's electrical design and all charges described in this letter are in effect for 120 calendar days from the date of this letter. Seattle City Light's electrical design and the charges are subject to review after the 120-day period has expired even if the customer has made a full or partial payment. Any change in the design of the customer's project will subject Seattle City Light's electrical design and cost estimate to further review.

POWER SERVICE SUMMARY

- The electric service shall be 1,200 amperes, 480Y/277 volts, three-phase, four-wire.
- The fault current will be 17,000 amperes at the transformer secondary spades.
- The legal service termination point shall be at the transformer secondary spades.

SEATTLE CITY LIGHT SCOPE OF WORK

- Prepare ROW overhead primary extension design for International Special Review District.
- Review PAD oil containment system
- Install three new poles and extend 2 spans of primary and neutral wires to the project site.
- Install anchors and down guys.
- Fly tap to the existing primary wires.
- Extend one 4-inch conduit up the utility pole.
- Provide and install the transformer.
- Provide and install high-voltage cables from the utility pole to the pad-mounted transformer.
- Make all high-voltage electrical connections at the utility pole and at the pad-mounted transformer.
- Make low-voltage connections to the customer's code-sized service entrance conductors at the pad-mounted transformer.
- Install metering.
- Remove this temporary service, meter, padmounted transformers, primary wires, neutral wires and poles after the construction is done or notice by customer. (Temporary service should not be longer than one year. Any extension, please contact service representative)

Seattle City Light will perform the electrical service installation work unless you request that a licensed, private contractor of your choice does the work with Seattle City Light approving the plans. If a private contractor is approved to do the installation, Seattle City Light must perform and charge for engineering work, certain inspections, meter installations, and final connections. A separate estimate of these costs is available upon request.

ENCLOSURE

- Seattle City Light Site Plan

Attachment B: General Customer Requirements

Service Construction Letter Dated May 3, 2019

Service Address: 652 South Dearborn Street

Service Request #: 1509614

Project Description: Temporary Primary Service with overhead primary line extension

Safety:

Locating underground utilities:

- Before digging, please contact the Utilities Underground Location Center ("One-Call") at 811 or 1-800-424-5555 at least two business days in advance to locate and mark underground utilities, per state law (RCW 19.122).

Excavating near Seattle City Light facilities:

- All excavations adjacent to Seattle City Light poles or other facilities (vaults, handholes, etc.) shall comply with WAC 296-155, Part N, Excavation, Trenching and Shoring. Pole protection/supporting systems used while excavating shall comply with WAC 296-155-655, General Protection Requirements, item (9) and shall not affect the structural integrity of poles while the systems are in place or after the systems have been removed.

High-voltage working clearance:

- State law requires all construction workers, their tools, machinery, temporary structures, equipment and materials to maintain a minimum 10-foot clearance from many types of power lines (WAC 296-24-960). Seattle City Light transmission lines require even greater clearance. If this project requires work in proximity to any energized lines, we may de-energize and ground the lines, or relocate the lines temporarily. This work will be done at the customer's expense. The cost must be paid in advance of any work.

Permanent structure clearances from high-voltage lines:

- See SCL D2-3 for acceptable clearances. Changes to Seattle City Light's system to meet appropriate clearances will be performed at the customer's expense. The cost must be paid in advance of any work.

Service Design:

Provide and install an electrical service that complies with Seattle City Light's Requirements for Electric Service Connection (RESC) manual and the current Seattle City Light rate ordinance.

Project Lead-Time:

Schedules for completing installations may vary. Large projects may require extended lead-time (up to 18 months) to allow us to procure and prepare transformers, equipment, and materials. Any changes to the contract application terms must be made well before your estimated connection date if delays are to be avoided.

Construction Responsibility:

If the customer chooses to have a contractor install the service between the customer's service connection point and Seattle City Light's distribution system, Departmental Policy and Procedure (DPP) 500 P III-422 shall apply. Specifically, in section 6.1.4, the customer shall be responsible for the costs of maintenance, replacement, and/or repair of any contractor-provided and installed equipment and material that requires maintenance or fails within five years after the service installation is energized by Seattle City Light. Seattle City Light may, at its discretion, maintain, replace, and/or repair contractor-provided and -installed equipment and material that requires maintenance or fails within this five-year period and bill the customer for time and material expenses incurred.

Construction Permit:

If you will be trenching in a public right-of-way, you must obtain a permit from the local permitting authority. For permit information, please contact City of Seattle Department of Transportation for projects within Seattle city limits, or your appropriate jurisdiction for projects outside Seattle city limits.

Construction Materials Inspection:

Use Seattle City Light approved conduit manufacturers only. Refer to SCL 7015.05, 7050.05 and 7055.09 for lists of approved conduit manufacturers. Note manufacturer limitations for PVC female adapters given on the material standard.

Vault and Conduit Installation Inspection:

Please contact your electric service representative two business days in advance of pouring pad and vault structures, and before backfilling trenches, to schedule a Seattle City Light inspector to observe construction and perform inspection.

No inspection will be made unless shoring for excavation complies with WAC 296-155 Part N, Excavation, Trenching, and Shoring.

The Seattle City Light inspector must inspect all aspects of enclosures and vaults, including, but not limited to, access, walls/floor/ceiling construction, conduit

penetrations, grounding, and secondary bus bars before the enclosures and vaults will be approved for service.

The Seattle City Light inspector must inspect and approve the conduit trench, trench bedding, conduits, Mandreling of conduits, and trench backfill before covering the trench.

Installation of Facilities for Other Utilities:

The specifications referenced by this letter do not include facilities for other utilities serving this project. However, for Seattle City Light installation of conduits and small handholes for other utilities in the public right-of-way, the customer must:

Obtain written installation specifications from each franchised utility requesting installation of facilities by Seattle City Light.

Forward these specifications to Seattle City Light at least two weeks before Seattle City Light is to begin underground construction in the right-of-way.

Seattle City Light will review the specifications and the customer will be billed an estimated cost of the time & materials for Seattle City Light work required by the specifications.

Preventing Water from Entering the Building:

Prevent water from entering customer's service equipment or building from transformer pad through customer's low-voltage service conduits or bus gutter, and conduit's/gutter's wall/floor/ceiling penetration. Install conduits and equipment at elevations that will prevent water from entering building.

Motor Loads:

Meet the requirements outlined in Chapter 12 of the RESC manual describing Seattle City Light requirements for starting electric motors and other special loads. Electric motors with locked-rotor currents that exceed the maximum allowable motor starting-current limitations described in the RESC manual shall be installed with current-limiting motor starting devices.

Notification of Added Load:

When you add load to your service, you must notify Seattle City Light per SMC 21.49 (S) and WAC 480.100.148 (1).

Electromagnetic Interference:

The building's service entrance equipment, including customer switchgear and Seattle City Light cables, may produce electromagnetic fields that may affect sensitive equipment such as computer monitors. It is the customer's responsibility to design and construct the building to avoid these effects.

Power Surges, Faults, Transients, and Outages:

Power surges, faults, electrical transients, planned and emergency power outages, other occurrences not within Seattle City Light's control, or mechanical failure may affect your electrical equipment, your electrical system, or the availability of electricity to your building. You may avoid such problems by providing at your expense protective devices or backup generation equipment for power outages. It is your responsibility to take the above steps as provided by city ordinance SMC 21.49.110 (G) and (Q).

Metering:

Meet Seattle City Light-accepted Electric Utility Service Equipment Requirements Committee (EUSERC) standards.

Install metering equipment according to Seattle City Light's RESC manual, chapter 11.

Provide current transformer enclosures as described in EUSERC 322 and 324.

The customer shall provide the meter base.

Meter bases shall comply with SCL DU13-4/NMT-30 and EUSERC 336.

Commercial services require block by-pass or safety sockets. Safety sockets are required where the service voltage is 277V to neutral or 480V phase to phase.

If the electrical meters are to be located inside the building and the building or meter room is to be locked, Seattle City Light will provide a key box without a cover to be installed by the contractor near the building's entry door. It is the customer's responsibility to supply a key that provides access into the building. The key will be stored in the key box. The key must be given to the electric service representative before service will be approved for self-contained meter installation.

Prior to approval of service and meter installation, all separately metered spaces and their meter sockets must be identified by final space or unit number, letter designation, and/or street address.

Permanent switchboard metered services shall not have the electric meter located on the switchboard door adjacent to the current transformer compartment. The meter shall be located in a remote single meter base with a test switch provision on the nearest possible wall and connected by a 1 inch minimum conduit. NOTE: Permanent engraved phenolic unit or equipment designation labeling is required at both the meter base and the switchboard.

For switchgear with an Arch Flash Warning label calculated at, or greater than 60 cal/cm², Seattle City Light will require a service disconnect to perform maintenance or improvements in the Seattle City Light metering current transformer compartment.

Temporary Totalized Metering:

At Seattle City Light's discretion, Temporary Totalized Metering may be utilized to capture a customer's total consumption for billing purposes. This temporary metering will generally apply to a project during initial construction, but may be used when a customer is altering or upgrading their service entrance equipment. All required equipment for this metering will be the sole responsibility of Seattle City Light, and all metered consumption will be billed in accordance with the appropriate rate schedule.

Contractor's Pre-Installation Checklist for Multi-Unit Metering:

Once the facility is ready for permanent meter installation, it is the responsibility of the property owner or contractor to contact Seattle City Light, and to ensure that all metering facilities are prepared according to Seattle City Light's specifications. Failure to abide by Seattle City Light specifications may result in additional trip charges and installation delays. Seattle City Light is the final inspecting authority having jurisdiction over the meter to customer connections.

Certificate of Occupancy (C of O) is posted at job sight and a copy provided to ESR/ESE.

Parking - Adequate parking is available close to the metering location. (SCL Meter Crews need to park for the duration of the work due to the amount of equipment that needs to be transported).

Access - The meter rooms and passage ways are clean and clear of all equipment/debris.

Lighting - Adequate lighting provided by contractor to safely perform the work.

Meter Base Labels - Meter bases shall have engraved phenolic nameplates installed on the cover of the meter socket identifying the final space or unit number, letter designation, and/or street address. Note: Felt-tip pens and label marker tape are not permanent markings.

Unit Labels - All units receiving meters shall have at least temporary identification at the main entrance of the space. Note: It is imperative to notify the Electrical Service Representative/Engineer (ESR/ESE) if the address changes after meter installation.

Panels Safe to Energize - All unit electrical distribution panels have been approved for service by an electrical code inspector and are safe to energize. Note: These panels must be energized to perform space checks at the time of meter installation.

Electrical Contractor on Site - Electricians are available at time of meter install to operate breakers or switches and install/remove panel covers as needed.



Access for Space Check - All units are safe and accessible to perform space checks at the time of meter installation.

Key Box Installed - Note: The key box without a cover will be provided by the ESR/ESE.

Online References:

The following City of Seattle reference documents may be viewed on the Internet:

Seattle City Light New Construction Web Site: Customer resources for new construction are available at <http://www.seattle.gov/light/newconstruction/>

Seattle City Light Construction Guidelines and Material Standards Online: Current Seattle City Light guidelines and standards are available at <http://www.seattle.gov/light/engstd/>

Seattle City Light Requirements for Electric Service Connection Online: The entire RESC manual is available at <http://www.seattle.gov/light/electricservice/requirement.asp>

Attachment C: Customer Construction Requirements Transformer Pad

Service Construction Letter Dated May 3, 2019

Service Address: 652 South Dearborn Street

Service Request #: 1509614

Project Description: Temporary Primary Service with overhead primary line extension

The following is a summary of the customer construction requirements to support the Seattle City Light service installation. This electrical service will require a Seattle City Light transformer pad to be constructed on the property. The installation shall conform to Seattle City Light Construction Standard 0724.50 "Customer Requirements for Padmount Transformer Services, Looped Radial System".

TRANSFORMER PAD

The transformer pad is designed to accommodate a maximum transformer capacity of 1000 kVA.

Transformer Pad:

- Install one 96 inches x 93 inches concrete pad per SCL 0724.50 and 7203.76.

PRIMARY (HIGH VOLTAGE) CONDUITS

CAUTION: *Energized high-voltage underground cables exist near the Seattle City Light pole.*

- Install two 4-inch conduits from the transformer pad to the Seattle City Light pole.
- A maximum of 270 degrees of bends are allowed in the primary conduit run, including the bends at the base of the pole.

SECONDARY CONDUIT

- Install two 4-inch conduits from the transformer pad to the service termination facility.

ELECTRICAL SERVICE ENTRANCE

- Install NEC-sized service conduits and cables from switchgear into the transformer pad.
- No more than two cables per phase and neutral are allowed.

(Per IEEE Std C57.12.34-2004)

120/240V	208Y/120V	480Y/277V	Holes = cables
75-500 kVA	75-300 kVA	75-500 kVA	4
750 kVA	500 kVA	750-1500 kVA	6
1000 kVA	750-1000 kVA	2000-2500 kVA	10



Attachment D: Service Construction Acceptance Form

Service Construction Letter Dated May 3, 2019

Service Address: 652 South Dearborn Street

Service Request #: 1509614

Project Description: Temporary Primary Service with overhead primary line extension

By returning this Service Construction Acceptance Form signed and dated, the customer agrees with all the terms and conditions of the Service Construction Letter including its attachments: Seattle City Light Cost and Scope of Work; General Customer Requirements; Customer Construction Requirements; and Construction Requirements Drawing.

NOTE: Should you desire to make changes after this agreement has been executed, submit the Service Request Change Order Form with applicable revised project plans to the Seattle City Light Intake Desk. Additional Seattle City Light charges may be incurred. Please contact your Seattle City Light Electric Service Consultant listed below for additional details.

Print Name: _____

Title: _____

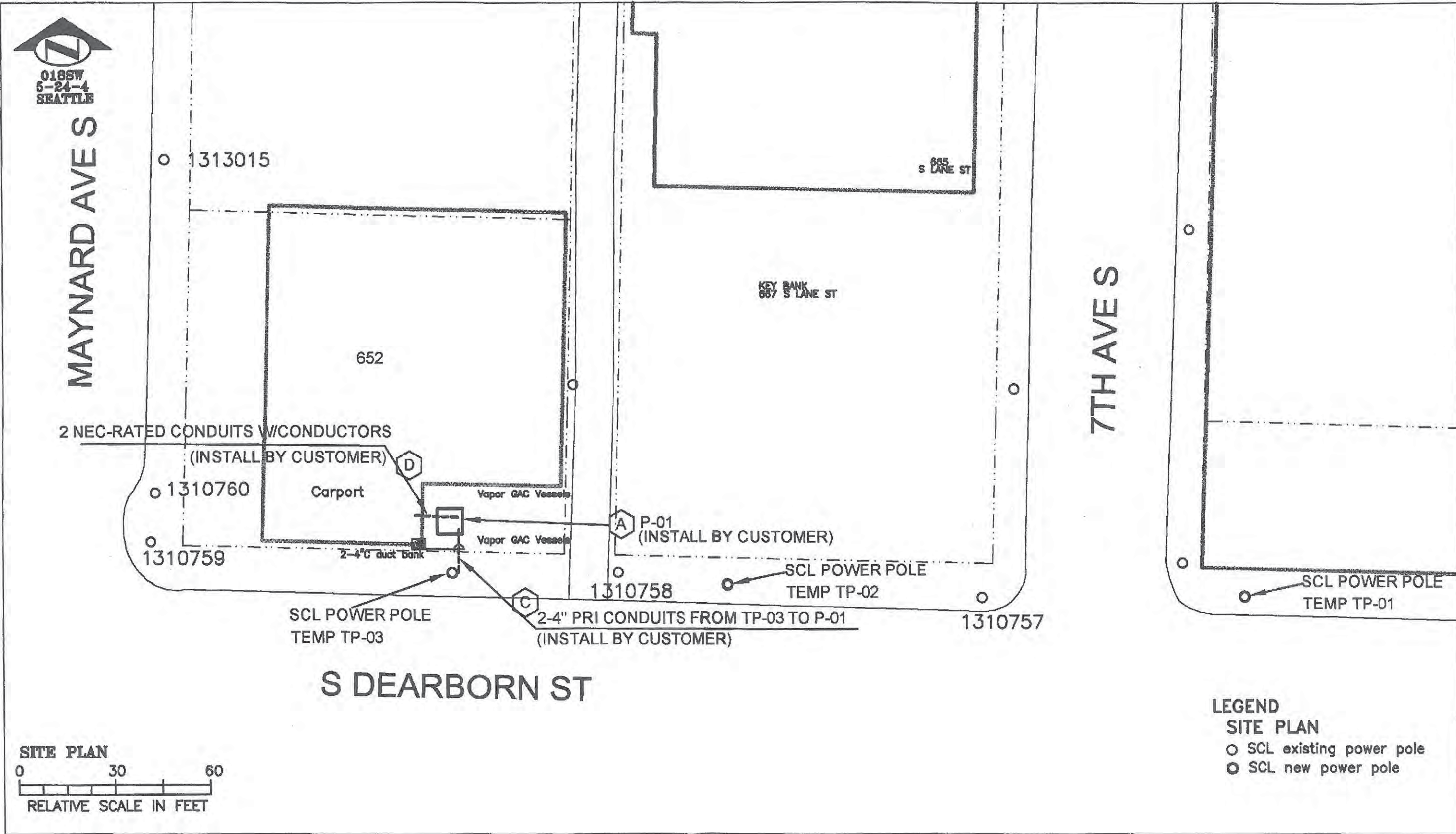
Signature: _____
(Owner/Authorized Representative)

Date: _____

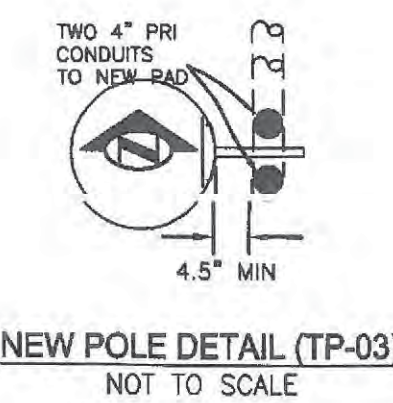
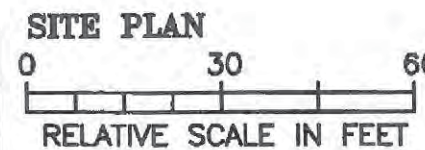
Contact Phone: _____

Mail to:

Seattle City Light
Attn: SCL Intake Desk
1300 N. 97th St.
Seattle, WA 98103-3320
Antonio Hernandez - Senior Electric Service Representative
(206) 386-1635
E: Zhong, K.\bk



LEGEND
SITE PLAN
 ○ SCL existing power pole
 ● SCL new power pole



DO NOT INSTALL CONDUIT ON TP-03 UNTIL NEW POLE IS SET BY SCL CREW.

STREET USE PERMIT REQUIRED, CITY OF SEATTLE: (206) 684-5253
 INTERNATIONAL SPECIAL REVIEW DISTRICT BOARD: REBECCA FRESTEDT (206) 684-0226

Phone 1-800-424-5555, 2 business days in advance of digging so all underground utilities can be located & marked.

- Ensure conduits & service termination facility will not discharge water into building. install service conduits or equipment at elevations that will prevent water from entering service equipment or building.
- Installations that differ from specifications must be corrected & may cause additional project cost and/or delays.
- It is the customer's responsibility to verify that all SCL clearance requirements are met when they install facilities for SCL. customer also needs to verify the locations of all SCL facilities they have installed to make sure they are consistent with this drawing and SCL standards.
- It is the customer's responsibility to maintain all service conduits within building foot prints.
- Work must occur exactly according to approved plans and specifications. Any revisions, omissions and/or additions to plans and specifications must be reviewed and approved by the INTERNATIONAL SPECIAL REVIEW DISTRICT BOARD prior to implementation.

CONSTRUCTION MATERIALS INSPECTION:

Phone electrical service consultant Antonio Hernandez (206) 386-1635 before purchasing or installing materials for Seattle City Light (SCL) approval of manufacturers. See attached Material standards 7015.05 & 7050.05 for a list of approved conduit manufacturers.

CONSTRUCTION MATERIALS:

Use only SCL approved manufacturers. Phone Antonio Hernandez, Electrical Service Consultant - (206) 386-1635, in advance of purchasing/installing construction materials.

1. Power Facilities - use Oldcastle Precast or SCL approved equivalent manufacturer.
2. Conduits - refer to list below or Material Standard, 7015.05. Note manufacturer limitations for PVC female adapters.
3. Conduit Bends - Galvanized Steel Mat'l Std 7050.05.

Clean and mandrel the conduits then install a flat, pre-lubricated, polyester or Aramid pull tape of 2,500 lb. minimum tensile strength (Fibertek Inc. or equal; City Light Stock No. 012293 and 012480 in each conduit. In each trench, place a detectable underground marking tape according to SCL Construction Guideline U2-11.40.

CONDUIT & PAD INSTALLATION INSPECTION:

- Electrical service representative & civil inspector must inspect power facility installations & back-fill material. Inspection will not be made shoring of excavation complies with WAC 296-155 part n. "excavation, trenching, and shoring."
- Contact Antonio Hernandez, electrical service representative, (206) 386-1635 two business days advance to schedule field inspections with civil inspector & electrical reviewer for the following inspections: transformer pad, grounding, oil containment, conduit trench, trench bedding, conduits before covering, mandrels of conduits and trench backfill before covering the trench.

(A) TRANSFORMER PAD (P-01):

Design the 93" x 96", concrete PAD with oil containment system per SCL construction standard (0724.50 & 0735.50) as shown on SITE PLAN. Customer's oil containment design shall be submitted to electrical service representative for review and approval by SCL environmental & engineering department prior to construction. Transformer oil capacity is 495 gallons of FR3 fluid. Once customer's design is approved by SCL, the approved customer's design will be used for SCL's inspection and customer's construction.

IMPORTANT NOTE:

The customer's proposed location of the transformer PAD as shown on the site plan could be changed. The exact location of the PAD shall be approved by SCL to comply with SCL clearances per standard 0724.05:

- 10 feet from any property line between private properties.
- 10 feet from building doors or windows.
- 10 feet from combustible structures.
- 7 feet from noncombustible conductive (metal) structures.
- 3 feet from noncombustible, nonconductive structures and combustible nonconductive structure that has a 3-hour fire protection rating.
- Conduit opening side of PAD must be 10 feet from any structures.
- Must be 10 feet minimum unobstructed working clearance on the conduit-opening side of the pad (east side).
- Must be minimum of 3 feet of clear space on three sides of pad that do not have conduit-opening for SCL crew's working-space & pad's ground grid.
- Foundations, footings, structures, tanks, piping, etc. are not allowed under the footprint of the PAD and the grounding grid.

ACCESS: Provide adequate city light vehicular(truck) access to the PAD P-01 at all times for installation and service of electrical equipment.

(B) PRIMARY (HIGH VOLTAGE) SERVICE CONDUITS:

Provide and install two 4" PVC sch-40 primary service conduits from new PAD P-01 to and 10' up the power Pole TP-03 on east-face, as shown on SITE PLAN. Primary conduits shall have red-dyed, high-strength fluidized thermal backfill (HFTB) encasement. Trench backfill over encasement shall be un-dyed controlled density fill (CDF). (SCL construction standards 0214.00, 0222.02, 0224.34, U2-11.40 and material standard 7015.05, 7050.05 & 7150.00)

SPECIFIC REQUIREMENTS FOR PRIMARY CONDUITS:

- Conduit shall be installed in RIGHT-OF-WAY (ROW) and private property to be served.
- CONDUIT DEPTH to be 36-inches in ROW & private property.
- A maximum of 270 degrees of bends is allowed in each conduit run, including bend at the base of the pole.
- See TABLE1 PRIMARY CONDUITS ROUTE for conduit size.
- Use Seattle City Light approved conduit manufacturers only.

(C) NEC SERVICE CONDUITS & CONDUCTORS:

- Provide & install NEC sized conduits & conductors from customer's switchgear to PAD P-01 as shown on SITE PLAN.
- Extend 8' per conductor into the transformer PAD P-01 to provide connections at the PAD P-01.
- No more than two cables per phase & neutral are allowed.
- Maximum sized cables allowed are 750MCM CU.
- Visibly mark each cable indicating phase & service being fed.

(D) TABLE1 PRIMARY CONDUITS ROUTE

FR	TO	CONDUIT QTY & SIZE	APPROX. DISTANCE
P-01	TP-03	2 SETS OF 4"	13 FT

IMPORTANT INFORMATION
 The installer is responsible for coordinating installation of other underground utilities. Specifications and charges are valid for 120 days from date given. Installer must comply with all conditions on permit for installation in the public right-of-way. Installer must comply with applicable Washington State Administrative Code regarding trenching and clearance from utilities. Do not enter energized SCL facility without SCL Safety Standby. The customer must supply and install materials as specified by SCL. Approval from SCL Inspector is required. Applicable SCL Construction Guideline and Material Guidelines are available upon request.

STREET USE PERMIT: SEATTLE (206) 684-5253
 SERVICE TERMINATION POINT: PAD XFMR SECONDARY SPADES
 AVAILABLE INRUCH CURRENT(AIC): 17,000A
 CALL BEFORE YOU DIG TO LOCATE EXISTING UNDERGROUND UTILITIES TWO BUSINESS DAYS IN ADVANCE. KING CO. ONE CALL 1-800-424-5555

REFERENCES:
 Standards for Electric Service, 2019 Edition
<http://www.seattle.gov/light/engineerstd/>

SR#1506914
NOTE:
 THE INSTRUCTIONS GIVEN IN THE ATTACHED LETTER ARE AN INTEGRAL PART OF THIS DRAWING.
 DO NOT SEPARATE THE DOCUMENTS.
 THIS DRAWING SUPERSEDES THE DRAWING APPROVED DATE ON 8/2/2016

ONE INCH AT FULL SIZE REVISIONS REV. DATE IMAGE DRAWN BY: CHECKED BY: APPROVED BY: WORK ORDER #: DESCRIPTION	REVISION#1: Revised customer sketch per current standard with oil containment system KZ 4/24/2019	<p>APPROVED FOR SEATTLE CITY LIGHT</p> PROJECT ENGINEER: KAMI J. ZHONG SHEET CONTENTS: CUSTOMER CIVIL DRWG QUARTERSECTION NUMBER(S): 018SW SECTION / TOWNSHIP / RANGE: 5/24/4	PROJECT TYPE: TEMP UG PRI SVC: 1200A, 480Y/277V, 3Ø,4W PROJECT NAME: SPIC N SPAN CLEANERS SITE TEMP ENVIORNENTAL REMEDIATION PROJECT ADDRESS: 652 S DEARBORN ST	SHEET 1 OF 1 WORK ORDER NO.-TASK: 1515259 CITY: SEATTLE DRAWING NO.: 01 REV. NO.: 1
	THIS DRAWING IS THE PROPERTY OF THE CITY OF SEATTLE AND ITS SEATTLE CITY LIGHT DEPARTMENT. IT IS PRODUCED SOLELY FOR THE USE BY SEATTLE CITY LIGHT AND OTHER CITY DEPARTMENTS. THE USE, REPRODUCTION, AND TRANSFER OF THIS DRAWING AND/OR ANY INFORMATION CONTAINED IN THE DRAWING REQUIRES THE WRITTEN PERMISSION OF SEATTLE CITY LIGHT.			



Seattle Dept of Transportation
 Street Use Permits, 23rd Floor
 700 Fifth Ave, Suite 2300
 P O Box 34996
 Seattle, WA 98124-4996

STREET USE PERMIT

Permit No.: 399440

Inspector Copy Permittee Copy File Copy

Project ID:	IMPACT Project ID: EX	Estimated Project Completion Date: 10/25/2019
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Inspector: Damon Siguenza
Inspection District: DOWNTOWN

Address: 652 S DEARBORN ST High Impact Area: Y Details: 1) ON NORTH SIDE OF S DEARBORN ST, EAST OF MAYNARD AVE S 2) ON EAST SIDE OF MAYNARD AVE N, NORTH OF S DEARBORN ST	Application Date: 1/23/19 8:27 am Issue Date: 9/27/19 11:03 am
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PARTIES (* Primary Applicant)

Role	Name	Address	Phone	From	To
*24 Hour Contact	ALVAREZ, ORLANDO	3203 15TH ST,,EVERETT,WA,98201	(425)971-4612		
Permittee	CLEAR CREEK CONTRACTORS	3203 15TH ST,,EVERETT,WA,98201-	(360)659-2459		
Contractor'S Agent	MCCULLOUGH, MARK	3919 88TH ST NE,,MARYSVILLE,WA,98270	(360)659-2459		

PERMITTED USES

To Be Restored By: PERMITTEE

MAYNARD AVE S BETWEEN S LANE ST AND S DEARBORN ST - NON-ARTERIAL

Use 51H Space A - Installing or maintaining electrical or telecommunication lines

Condition Description

Start Date 10/07/2019 - 90'x12' sidewalk closure to drill electrodes in sidewalk. Connection from electrodes to private property via (9) open trenches totaling less than 100' in length (approximately 8'-12' each). Street opening on Maynard Ave S NOT permitted.

Start Date	Duration	End Date	Sq. Ft	Issue Date	Ext.	Side of Street	Location Type	Closure Type	Peak Work OK	Day or Time Rstrctns
10/07/2019	10	01/05/2020	540	09/27/2019	N	EAST	SIDEWALK	CLOSED TO PUBLIC		

Use 51I Space A - Preparatory or exploratory work for upcoming projects, including surveying, installing monitoring wells, and soil sampling

Condition Description

Start Date 10/07/2019 - 90'x12' sidewalk closure to drill electrodes in sidewalk. Connection from electrodes to private property via (9) open trenches totaling less than 100' in length (approximately 8'-12' each). Street opening on Maynard Ave S NOT permitted.

Start Date	Duration	End Date	Sq. Ft	Issue Date	Ext.	Side of Street	Location Type	Closure Type	Peak Work OK	Day or Time Rstrctns
10/07/2019	10	01/05/2020	540	09/27/2019	N	EAST	SIDEWALK	CLOSED TO PUBLIC		

Use 51I Space B - Preparatory or exploratory work for upcoming projects, including surveying, installing monitoring wells, and soil sampling

Condition Description

Start Date 10/07/2019 - Staging equipment and material. Street opening on Maynard Ave S NOT permitted.



Project ID:	IMPACT Project ID: EX	Estimated Project Completion Date: 10/25/2019
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Start Date	Duration	End Date	Sq. Ft	Issue Date	Ext.	Side of Street	Location Type	Closure Type	Peak Work OK	Day or Time Rstrctns
10/07/2019	10	01/05/2020	630	09/27/2019	N	EAST	PARKING LANE	CLOSED TO PUBLIC		

S DEARBORN ST BETWEEN MAYNARD AVE S AND 7TH AVE S - NON-ARTERIAL

Use 51H Space L - Installing or maintaining electrical or telecommunication lines

Condition Description

Start Date 10/07/2019 - 50'x12' sidewalk closure to drill electrodes in sidewalk. Connection from electrodes to private property via (9) open trenches totaling less than 100' in length (approximately 8'-12' each). Street opening on Maynard Ave S NOT permitted.

Start Date	Duration	End Date	Sq. Ft	Issue Date	Ext.	Side of Street	Location Type	Closure Type	Peak Work OK	Day or Time Rstrctns
10/07/2019	10	01/05/2020	300	09/27/2019	N	NORTH	SIDEWALK	CLOSED TO PUBLIC		

Use 51I Space L - Preparatory or exploratory work for upcoming projects, including surveying, installing monitoring wells, and soil sampling

Condition Description

Start Date 10/07/2019 - 50'x12' sidewalk closure to drill electrodes in sidewalk. Connection from electrodes to private property via (9) open trenches totaling less than 100' in length (approximately 8'-12' each). Street opening on Maynard Ave S NOT permitted.

Start Date	Duration	End Date	Sq. Ft	Issue Date	Ext.	Side of Street	Location Type	Closure Type	Peak Work OK	Day or Time Rstrctns
10/07/2019	10	01/05/2020	300	09/27/2019	N	NORTH	SIDEWALK	CLOSED TO PUBLIC		

CONDITIONS OF USE

DESCRIPTION OF WORK :

Additional Notes: Scope:

- 1) Drilling electrodes in sidewalk.
- 2) Connection from electrodes to private property via (9) open trenches totaling less than 100' in length (approximately 8'-12' each). Street opening on Maynard Ave S NOT permitted.

Mobility Impact:

- 1) On north side of S Dearborn St, east of Maynard Ave S. Sidewalk closed. Travel lanes and bike lane to remain open.
- 2) On east side of Maynard Ave N, north of S Dearborn St. Sidewalk and parking lane closed. Travel lanes to remain open.

Anticipated Restoration:

PCC sidewalk panel surface.

Customer Description:

Drilling electrodes in the Maynard Avenue and Dearborn sidewalks, rigs will block sidewalk and potentially parking spaces along Maynard but will not close lanes of traffic. Trenching in sidewalk to connect electrodes to the property, with temporary restoration on the sidewalk, final restoration to be completed at project end. Sidewalk will remain closed during work hours.

Electrodes will be 50 ft deep w/ 10" monument

Project is located along the corner of S Dearborn Street and Maynard Ave S (90' North on Maynard & 50' east on Dearborn)

Sidewalk on Maynard Ave measures 12' wide and is approx. 22' from street centerline. Will also be utilizing the 7' parking lane to offload equip., Approx. 15' from street centerline.

Sidewalk on Dearborn measures 12' wide and is approx. 42' from street centerline. Will not be utilizing additional space on Dearborn Street.

E1.15 :

MULCHING AND MATTING - Apply mulch to protect exposed soils and promote plant establishment.



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E1.40 :

PERMANENT SEEDING AND PLANTING - Install temporary surface runoff control measures prior to seeding or planting to protect the surface from erosion until the vegetation is established. Establish permanent vegetation (e.g., grasses, legumes, trees, and shrubs) as rapidly as possible to prevent soil erosion by wind or water.

E1.45 :

SODDING - Establish permanent turf for immediate erosion protection or to stabilize drainage pathways where concentrated overland flow will occur.

E1.50 :

TOPSOILING - Preserve and use topsoil to enhance final site stabilization with vegetation and to provide a suitable growth medium for final site stabilization with vegetation.

E3.25 :

STORM DRAIN INLET PROTECTION - Install storm drain covers on stormwater structures less than 12 inches deep during construction. Install catch basin filter socks in stormwater structures greater than 12 inches deep. Place the storm drain or catch basin grate on top of the catch basin filter sock to hold it in place.

C1.20 :

USE OF CHEMICALS DURING CONSTRUCTION - Use only the recommended amounts of chemical materials and apply them in a proper manner. Neutralize the pH of concrete wash water from concrete mixers, if necessary.

C1.35 :

SAWCUTTING AND PAVING POLLUTION PREVENTION - Vacuum slurry and cuttings during the activity to prevent migration offsite and do not leave slurry and cuttings on permanent concrete or asphalt paving overnight. Dispose of collected slurry and cuttings, waste material, and demolition debris in a manner that does not violate groundwater or surface water quality standards. Implement preventative measures such as berms, barriers, secondary containment, and tractor trucks if observations indicate that a violation of water quality standards could occur.

C1.45 :

SOLID WASTE HANDLING AND DISPOSAL - Remove and dispose of accumulated solid waste at authorized disposal areas. Label waste containers and place them in a covered area with closed lids. Salvage and recycle any useful materials.

BMP5 :

SPILL PREVENTION AND CLEANUP-Keep a spill cleanup kit in a nearby vehicle or next to the work site so that it is easily accessible. Make sure the contents of the spill kit are appropriate for the types and quantities of materials used for this work task. Refill spill kit materials before beginning work.

BMP16 :

CONCRETE POURING, CONCRETE/ASPHALT CUTTING, AND ASPHALT APPLICATION - Sweep or shovel loose aggregate chunks and dust for recycling or proper disposal. Place storm drain covers or similarly effective containment devices over all storm drains located downslope or adjacent to the work area. Shovel or vacuum all slurry and remove from the site. Perform cleaning of concrete application and mixing equipment or concrete-delivery vehicles in a designated area where the rinse water is controlled.

BMP20 :

LANDSCAPING AND LAWN VEGETATION MANAGEMENT - Use proper fertilizer and herbicide application techniques to minimize nutrient pollution of stormwater. Implement proper landscaping and mulching techniques to prevent plant material and excess mulch from entering the separate storm drainage system. Do not dispose of collected vegetation in separate storm drainage systems, waterways, water bodies or greenbelt areas.

BIKE LANE IMPACTS :

For work that closes or impacts a bicycle lane or trail, you must notify the traveling public using on-site signage 72 hours in advance. Notification must include start date, end date, and, if the closure is not 24 hours per day, daily closure times. This allows the traveling public to plan alternative routes. Notification may be provided through electronic message board or temporary fixed signage. Temporary notification signage shall be visible to the public; placed so as not to impede public mobility, sight distances, curb ramps, sidewalks, or driveways; and shall conform to the current City of Seattle Traffic Control Manual for In-Street Work. The sign must be a minimum size of 24in wide and 36in high, white in color with black lettering not less than 3.5in in height.

DAMAGED OR DESTROYED UTILITY :

SDOT makes no representation regarding the safety or integrity of the subject structure. If the structure is damaged or destroyed, SDOT will have no obligation to provide an alternative location for the permit utility.

HOLIDAY MORATORIUM :

No work will be allowed in the following areas from Thanksgiving Day through January 1st (SDOT Director's Rule 94-8, Section 5.10 "Restricted Areas"):

- 1) Area bounded by Seneca Street, I-5 Freeway, Denny Way, Virginia Street, and 1st Avenue; and,
- 2) Area bounded by Columbia Street, 2nd Avenue, 2nd Avenue South, South King Street, and Elliott Bay.

At least ten working days before starting any construction work, permittee shall contact all property owners, businesses, vendors, hotels, and residents who may be affected by this construction work. These people shall be advised of the work to be done; also, they shall be given the name(s) and phone number(s) of who to contact to answer their questions about this work. Failure to make this notification will result in a "Stop Work" order being placed on all construction work.

HUB COORDINATION NOTIFICATION :



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The location of the proposed work is within a Coordination Hub that has been identified by the City as an area with significant construction activity. Coordinated work is shown on the SDOT Hub Coordination map: <http://www.seattle.gov/maps/hubmap>. Log in using the ARCGIS button. Username: DOT_ConstructionHub, password: HubConstruction2017 (case-sensitive). Your locations, dates, and times must be shown accurately on this map. Work locations, dates, or hours not shown on this map are not coordinated and are in violation of permit coordination requirements. Weekend work must be explicitly stated on map for multi-week use. Any changes to project phases, including street improvement and utility major work, must be reviewed and coordinated with the site coordinator and reviewer 6-8 weeks prior to beginning work. Permitted work in a construction hub requires regular attendance at geo-based hub coordination meetings. Email SDOTConstructionHub@Seattle.gov for meeting information and invitations.

Additional Notes: *Scheduled: 652 s Dearborn St - 399440 - Drilling electrodes in sidewalk, 10/7/2019-10/25/2019, 8am-5pm, 1) On north side of S Dearborn St, east of Maynard Ave S. Sidewalk closed. Travel lanes and bike lane to remain open, 2) On east side of Maynard Ave N, north of S Dearborn St. Sidewalk and parking lane closed. Travel lanes to remain open*

INT'L SPECIAL REVIEW DISTRICT :

All work must be in compliance with the use and design terms and conditions of Certificate of Approval from International Special Review District Board and the Director of the Department of Neighborhoods as required by SMC 23.66.030.

METRO BUS RESTRICTIONS :

Contact Metro for bus restrictions 206-477-1140 prior to starting work.

PAID PARKING SHORT & LONG-TERM :

PAID PARKING

Short-term use of paid parking for 30 days or less:

You are required to contact Bobby Lindsey, SDOT Traffic Operations, email bobby.lindsey@seattle.gov or telephone (206) 684-5371

Long-term use of paid parking for more than 30 days:

You must set up a billing agreement with Robert Burns, SDOT Traffic Operations, email bob.burns@seattle.gov or telephone (206) 684-5370

PAY-TO-PARK STATIONS OR KIOSKS

- You may not fence-off SDOT pay-to-park stations or kiosks without advance approval
- You may not remove or move SDOT pay-to-park stations or kiosks
- If necessary for your project, SDOT crews can remove pay-to-park stations; you will be charged for crew time and materials
- SDOT requires a minimum of 10 business days advance notification for pay station removal

SDOT PARKING SIGNAGE

- In paid parking areas, SDOT must install parking signs
- In unpaid parking areas, you may either install SDOT-approved parking signs or request that SDOT crews install signage; if you install signs, all materials and installation must meet both City of Seattle Standard Plans and Specifications and direction by SDOT inspector

PED MOBILITY COORDINATION :

PEDESTRIAN MOBILITY COORDINATION: One sidewalk at this location must remain open for safe pedestrian passage at all times. Prior to the beginning of any construction, this permit requires: Contractor will coordinate with existing permit holders to coordinate construction impacts on this street segment. Contractor must ensure that one sidewalk or temporary pedestrian pathway remain open at all times to provide for safe pedestrian passage. SDOT reserves the right to require documentation confirming coordination on future permit requests or extensions when deemed necessary. Permittee is required to notify the district Street Use inspector to ensure all required inspections are scheduled.

RIGHTS - ALREADY APV CONTRACTR :

RIGHTS TO OTHER CONTRACTORS ALREADY APPROVED FOR WORK: The scope of work listed in this permit is approved for the scheduled dates only. SDOT recognizes that construction coordination may be required to allow other contractors with existing approved permits priority in conducting work in the right of way where potential construction conflicts may occur. If, in any given area, the work allowed under this permit conflicts with other area work where contractors demonstrate an existing approved permit, the permittee must move to another location. Permittee is required to notify district Street Use inspector regarding conflicts and any work that is rescheduled due to conflicts. Work that is rescheduled may require an extension or revision to the Street Use permit.

SAFECO AND CENTURY LINK EVENTS :

All streets bounded by Madison Street to the north, South Spokane Street to the south, I-5 to the east and Elliott Bay to the west shall be open to their full driving widths from two hours before to two hours after any SAFECO or CENTURY LINK Field events with an anticipated attendance of 15,000 or more people. Permittee's contractor may be required to discontinue or limit work near the stadiums for such events as rallies, parades, large public gatherings, sporting events, or other special events. Attendance information is available from Event Services at 296-3144.

STEEL PLATE REQUIREMENTS :

Steel plates placed over cuts in the street and sidewalk shall have a non-skid surface; subject plates to be of sufficient strength and thickness to provide H-20 loading. Plates shall be anchored in accordance with the SDOT "Street And Sidewalk Pavement Opening And Restoration Rules". Edges of all steel plates shall be shimmed with MC250 asphalt mix to provide for smooth transition. Asphalt shim shall not extend higher than the top of the steel plate. Where more than one steel plate covers a cut, subject plates shall not be overlapped or stacked on top of one another.

TREE TRUNK OR ROOTS :



STREET USE PERMIT

Permit No.: 399440

Project ID:	IMPACT Project ID: EX	Estimated Project Completion Date: 10/25/2019
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Contact the City Arborist Office (684-8733) a minimum of five working-days prior to digging within any landscaped areas in the street rights-of-way. The edge of all trenching must be at least five feet (5') from any street trees. When trenching near trees with trunks greater than twelve inches (12") in diameter, hand dig all trenching for a distance of ten feet (10'), measured five feet (5') radius from the tree trunk. When encountering tree roots, cut off cleanly with sharp saw (do not leave torn or ripped tree roots unattended). Do not cut roots greater than two inches (2") in diameter (contractor will have to hand tunnel underneath the roots). Do not paint ends of roots. Notify Landscape Maintenance at 684-4121 at least forty eight (48) hours in advance when working in landscaped areas or on trees.

WALKWAY FOR PEDS :

Maintain a four-foot (4') wide walkway for pedestrians through or around the work areas. Permittee shall contact all businesses and residents who may be affected by the work to be done under this permit at least one week before starting any construction activity in the street rights-of-way. Permittee must coordinate this work with any other contractors working near its construction zone to avoid conflicts. Access to all businesses shall be maintained during construction. All driveways will be cleared and accessible at the end of every work day.

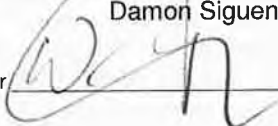
FEES PAID AT THE COUNTER OR ONLINE

Description	Date	Amount
ISSUANCE FEE - SIGNIFICANT	09/27/2019	\$324.00
Totals:		\$324.00

STREET USE INSPECTOR

Permittee 

Damon Siguenza (206) 379-2227

Director Per 

GENERAL REQUIREMENTS

- Nature of permit.** This permit is issued according to Seattle Municipal Code ("SMC"), Chapter 15.04, for the use or occupancy of the public right of way in a manner consistent with the terms and conditions in this permit. This permit is wholly of a temporary nature, vests no permanent rights, and is revocable according to SMC Section 15.04.070.
- Acceptance of terms, conditions, and requirements.** The Permittee accepts the terms, conditions, and requirements of this permit and agrees to comply with them to the satisfaction of the Seattle Department of Transportation, Street Use Division ("Street Use"), or such other agency as may be designated by the City. The Permittee further agrees to comply with all applicable City ordinances, including but not limited to SMC Title 15, and all applicable state and federal laws.
- Copy of permit.** A copy of the issued permit and current approved plans shall be on site and available at all times.
- Expiration of permit.** This permit shall remain valid until revoked according to SMC Section 15.04.070; provided that the permit shall expire automatically if the authorized work does not begin within six months from the date the permit is issued. The Permittee is responsible for keeping the permit up to date including submitting updated plans for approval. The Permittee shall submit requests to update a permit in writing or in person, and all requests shall be made to Street Use in a timely manner; otherwise, the Permittee may lose access to requested schedule for continued work in the right of way.
- Superiority of Street Improvement Permits.** When a Street Improvement Permit exists, rights acquired under the Street Improvement Permit supersede those acquired under any other Street Use or Utility Permits. Work not approved under the Street Improvement Permit shall require separate Street Use or Utility Permits and Permittee shall obtain these permits in advance of work.
- Compliance with technical requirements and standards.** All work within the public right of way shall be performed and completed according to the current or subsequently-amended requirements in the following technical documents published by the City: Right-of-Way Improvements Manual; Street Tree Manual; Standard Specifications for Road, Bridge and Municipal Construction; Standard Plans for Municipal Construction; Right of Way Opening and Restoration Rule; and Traffic Control Manual for In-Street Work.
- Scope of work.** The Permittee shall stage equipment or materials and construct or install the improvements and infrastructure reflected in and in accordance with this permit and the City-approved construction plans. Any revisions, omissions, or additions to the scope of work shall be reviewed and approved by the City before implementation.
- Street Use notification.** Construction work may be completed in several phases: site preparation (installing traffic control, saw-cutting, etc.); ground breaking; restoration; and staging of equipment and materials. Before beginning any phase of work in the public right of way, the Permittee shall notify Street Use of each start date. The Permittee shall be responsible for notifying Street Use Job Start at (206-684-5270) or SDOTJobStart@seattle.gov a minimum of 2-business days before starting work and shall provide the following information:
 - Permit number;
 - Job-site address;
 - Start date: please specify if Job Start date is the same as the excavation or ground breaking date. If the dates are different, please provide both dates;
 - Brief work description; and



Project ID:

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- Job-site contact name and phone number.

Failure to notify Street Use Job Start shall result in a \$300 penalty or other amounts according to SMC Section 15.04.074. For Street Improvement Permits and Utility Major Permits, a preconstruction meeting is required before starting construction, and the assigned inspector shall be notified a minimum of 2-business days before required inspections. Construction or utility activity occurring with, but not approved under, a Street Improvement or Utility Major Permit shall be permitted under separate Street Use permits. The Permittee shall apply for and obtain these Street Use permits in advance of work. Failure to do so may subject the Permittee to penalties and additional permit review charges may apply.

9. Underground and overhead utility notification. The Permittee shall notify the following entities, as applicable, 2-business days in advance:

- Utility Underground Locate Center (811 or 1-800-424-5555) before ground disturbance; and
- Seattle City Light (206-684-4911) if working within 10 feet of high-voltage lines.

10. Olympic Pipe Line Company notification. When work in the right of way occurs within 100 feet of an Olympic Pipe Line Company ("OPLC") pipeline, the Permittee shall coordinate the work with OPLC, which may include submitting detailed construction plans to OPLC. The Permittee shall notify OPLC's field coordinator 10-business days in advance of the work (425-981-2506) and an OPLC representative may be required to be onsite during the work.

11. King County Metro notification. The contractor shall notify King County Metro Transit in advance of any construction that may disrupt transit service according to the following schedule.

- Five working days notice for any work requiring a temporary bus stop.
- Ten working days notice for relocation of a bus shelter or reroute of bus service.
- King County Metro Transit's electric storage battery Trolley Busses can be activated for weekend outage requires with 15 working days notification. Subject to vehicle and staff support capacity restrictions.
- No two consecutive transit stops may be closed

If trolley wires are present, call 206-477-1150 or email trolley.impacts@kingcounty.gov

If trolley wires are not present, call 206-477-1140 or email construction.coord@kingcounty.gov

Public notification. Notification requirements shall comply with following:

- For ROW Management and Major permits on non-arterial streets and Public Space Management Short-term Activity permits, the permittee shall hand deliver and/or mail a project notification to adjacent residents and businesses at least 2 business days prior to beginning right of way work or activity
- For ROW Management and Major permits on arterial streets in an Urban Center or Urban Village, the permittee shall hand deliver and/or mail a project notification to all potentially affected residents and businesses within a 2-block radius and community organizations at least 10 business days prior to beginning right of way work or activity, including alleys. For multi-family housing units, notifications must be mailed or emailed to each individual unit, posted predominantly in the building common areas and/or distributed to each individual unit by the building manager/owner.
 - For projects longer than 6 months in duration, the permittee shall a project notification must be delivered monthly and provide an on-site project notice
 - If there is any change of right of way use at any point in the project, an updated project notification must be provided at least 10 business days prior to beginning right of way work or activity
- The project notification shall include the following:
 - The name, address, and description of the project
 - The duration of the project, with beginning and end dates listed
 - Permittee 24-hour contact information (name, phone number, and email)
 - List of right of way closures with dates, duration, and hours of closures
 - For projects longer than 6 months in duration, the right of way closures shall be represented in a visual map
 - SDCI and SDOT permit numbers
 - If available, a link to the project website
- For projects longer than 6 months in duration, an on-site project information notice shall be posted and maintained at each closure that is visible to the public that shall include the following:
 - The name, address, description, and duration of the project
 - Permittee 24-hour contact information (name, phone number, and email)
 - List of right of way closures with dates, duration, and hours of closures
 - SDCI and SDOT permit numbers
 - A reference to 684-ROAD for residents to report safety or mobility concerns
 - If available, a link to the project website
- For crosswalk closures longer than two weeks in duration, a crosswalk closure notice must be posted to, and maintained, on each crosswalk closure barricade and include the following:
 - The name and address of the project
 - Permittee 24-hour contact information (name, phone number, and email)
 - The duration and hours of the closure
 - A reference to 684-ROAD for residents to report safety or mobility concerns



Project ID:	IMPACT Project ID: EX	Estimated Project Completion Date: 10/25/2019
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- o If available, a link to the project website
 - If the project requires a closure of any portion of an alleyway, the permittee shall notify all impacted residents and businesses at least 10 business days prior to work in the alleyway and coordinate closure dates and times with the following agencies:
 - o Seattle Public Utilities: Sally Hulsman (206-684-4682 or sally.hulsman@seattle.gov) and Mike Mannery (206-684-9271 or mike.mannery@seattle.gov)
 - o Seattle Fire Department Special Events Division at 206-386-1450 (this division will provide coordination information for the local fire station)
 - If the project will close or reduce down to one general purpose lane an arterial street in the Central Business District, the permittee shall notify King County Metro (construction.coord@kingcounty.gov) and the SDOT Transportation Operations Center (construction.coordination@seattle.gov) at least 10 business days prior to beginning work in the public right of way and coordinate closure dates and times with the following agencies:
 - o Seattle Fire Department Special Events Division at 206-386-1450 (this division will provide coordination information for the local fire station)
 - o Seattle Police Department Non-Emergency Division at 206-625-5011 or SPDdispatch@seattle.gov
 - If the project is working outside of approved hours due to an emergency event that will impact public health and safety, the contractor must notify the Street Use inspector, inspector lead, and the Transportation Operations Center at TOC@seattle.gov as soon as the issue has been identified
 - If a tree has been approved for removal, the permittee shall post a "tree removal" public-notice placard at least 10-business days prior to beginning work
 - If an SDOT public notice comment period is required prior to permitting, the permittee shall conduct the public notice outreach prior to commencement of the SDOT public notice comment period. The comment period will occur as part of the SDOT review process.
- 12. Alley notification.** Where this permit authorizes work in an alley, the Permittee shall notify all potentially impacted property owners and businesses prior to any activity occurring in the alley, including and especially those property owners and businesses with tenants using the alley to access parking or for building ingress/egress or deliveries. The Permittee shall schedule work around waste-management-collection days. If this is not possible, the Permittee shall coordinate with waste management services to either provide intermittent alley access during waste pickup or to temporarily establish waste pickup at an alternate location. If an alley is to remain open during permitted work, a minimum 11-foot clear width is required for vehicular access. If an alley is closed to through traffic, the Permittee shall notify the nearest Seattle Fire Department fire station and the Seattle Police Department at the non-emergency numbers prior to commencing work.
- 13. Coordination of work.** In performing work authorized by this permit, the Permittee shall coordinate with other contractors, public agencies and other permittees working in the public right of way to minimize impact to the public. Documented coordination agreements may be required prior to permit issuance and additional notification to the public may be required.
- 14. Hours of work.** Work performed in the public right of way shall occur only during hours authorized under all applicable codes, regulations, rules, and permits.
- 15. Off-hours work.** Work outside of normal working hours, 8:00 AM - 5:00 PM Monday through Friday, is considered "off-hours work" and requires a minimum of 3-business days advanced notice to the Street Use Inspection Supervisor before the off-hours work commences. Off-hours work may also require a separately-approved traffic control plan. A minimum of two hours of inspection time shall be charged for off-hours inspections at the premium rate. A Stop Work order or Citation may be issued for failing to notify Street Use at least 3-business days before the off-hours work.
- 16. Inspection fees.** The Permittee shall pay for City inspections of work authorized under this permit according to the current fee schedule established by SMC Section 15.04.074 and all other associated costs.
- 17. Billing.** All fees and costs billed according to this permit shall be paid to the City of Seattle within 30-calendar days from the invoice date. Past due invoices may be subject to interest charges and may be sent to collections.
- 19. Deposits, charges, and future billings.** The Permittee, also identified as the "Financially Responsible Party" on Street Use permit applications, is responsible and liable for all permit-related charges. If a deposit was made for estimated future Street Use services, any unused portion of the deposit shall be refunded to the Permittee. Any charges in excess of the deposit shall be billed to the Permittee on a monthly basis.
- 20. Corrective work.** The Permittee is responsible for any additional costs incurred by the City resulting from temporary or corrective measures required to bring the work area into compliance with standards that apply, including but not limited to: temporary traffic control, requirements for temporary structures, temporary stabilization, and temporary restoration when the Permittee is not on site.
- 21. Indemnification.** The Permittee agrees to defend, indemnify, and hold harmless the City of Seattle, its officials, officers, employees, and agents; against any liability, claims, causes of action, judgments, or expenses, including reasonable attorney fees; resulting directly or indirectly from any act or omission of the Permittee, its contractors, subcontractors, anyone directly or indirectly employed by them, and anyone for whose acts or omissions they may be liable; arising out of the Permittee's use or occupancy of the public right of way; and all loss by the failure of the Permittee to fully or adequately perform, in any respect, all authorizations or obligations under this Permit.
- 22. Insurance.** The Permittee shall obtain and maintain in full force and effect, at its own expense, public liability insurance in an amount sufficient to protect the City from all potential claims and risks of loss from perils in connection with any activity that may arise from or be related to the Permittee's activity upon or the use or occupation of the public right of way allowed by the permit; and all claims and risks in connection with activities performed by the Permittee by virtue of the permission granted by the permit. The Permittee shall meet all other insurance requirements in SMC 15.04.045.



Project ID:

IMPACT Project ID: EX

Estimated Project Completion Date: 10/25/2019

EXISTING IMPROVEMENTS

1. **Costs of damage to City property and improvements.** The Permittee shall be responsible for the costs of repairing any damage to City property or improvements, including street trees, resulting from work performed by or on behalf of the Permittee within the public right of way. Damage to street trees is assessed on the value of the tree according to SMC subsection 15.90.018.B.
2. **Utility protection.** The Permittee shall be responsible for checking locations and providing adequate protection for all utilities in the work area.
3. **Utility relocation.** The Permittee shall be responsible for notifying affected utilities and requesting any necessary relocation.
4. **Survey monuments.** Before removing, destroying, disturbing, or covering a survey monument such that the survey point is no longer visible or readily accessible, the Permittee shall obtain a permit from the Department of Natural Resources according to Washington Administrative Code, Chapter 332-120.
5. **Protecting, removing, and relocating existing improvements.** In addition to General Requirements item 12, the Permittee, at their own cost and expense, shall be responsible for coordinating the removal and relocation of existing improvements within the public right of way that their construction or permitted project may interfere with. These existing improvements include, but are not limited to trees, bike racks, newsstands, bike-share stations, signs, benches, artwork, and waste receptacles.
 - For existing improvements, the Permittee shall contact the improvement owner at least 10-business days before starting work to coordinate the temporary removal of the improvement.
 - For newsstands, the Permittee shall coordinate temporary relocation during the construction period by posting notice of upcoming construction projects at SeattleNewsstands.org at least 10-business days before starting work.

The Permittee shall be responsible for reinstalling the improvements or coordinating the reinstallation in their original location or at a reasonable alternative location approved by the existing improvement owner and meeting all applicable City requirements. The Permittee is further responsible for protecting all trees within the construction project area and shall contact Urban Forestry to disclose and describe any construction impacts to trees.

Failure to contact the improvement owners or Urban Forestry is cause for Street Use to revoke this permit.
6. **Monorail system proximity requirements.** The Permittee shall be responsible for coordinating with the Seattle Center when any work, deliveries, or loading/unloading will occur within 14 feet of a Monorail structure or 20 feet of a Monorail foundation or below-ground installation. The Permittee shall contact the Seattle Center at 206-905-2601 at least 10-business days before starting construction. Failure to do so is cause for permit revocation.
7. **Monorail system proximity guidelines.** Below grade: The restricted digging area includes a 45-degree cone extending outward and downward from the ground level of all monorail piers. Nearby excavations shall be monitored to assure footing stability. At- or above-grade: The piers above ground level cannot be moved, nor can any item like lighting or signage be attached to the piers without prior written consent from the Seattle Center Director. Piers shall not be painted. Landscaping shall not occur adjacent to piers or within 10 feet of a Monorail structure without prior written consent of the Seattle Center Director. Any construction activity in the area of the power rails shall follow OSHA guidelines for working around high voltage. Construction equipment shall be located and operated in awareness of and taking account of beam height and the train's 14-foot-operational envelope from each side of the beam. Contractors shall string warning lines from pier to pier under the beams as a guide. Spotters shall be employed when any construction activity occurs within 25 feet of the beams.

ENVIRONMENTAL PROTECTION

1. **Best management practices required.** The Permittee shall be responsible for protecting the public place, including but not limited to protecting existing street trees and green stormwater infrastructure, and controlling surface runoff, erosion and sediment at the construction site, as required by: the Stormwater Code, (SMC Title 22, Subtitle VIII); the Street and Sidewalk Use Code, (SMC Title 15); the Standard Specifications for Road, Bridge, and Municipal Construction; and Department of Planning and Development Director's Rule 21-2015/Seattle Public Utilities DWW 200, or successor rules or provisions. The site and the surrounding area shall generally be kept clean and free of construction debris or other material, including but not limited to mud, dust, rock, asphalt, and concrete. Waste materials shall be collected and disposed of at an appropriate disposal site. These materials shall be prevented from entering any part of the public sewer and storm drain system, and any surface waters.

TRAFFIC CONTROL REQUIREMENTS

1. **Compliance with the Traffic Control Manual for In-Street Work.** In order to provide safe and effective work areas and to ward, control, protect, and expedite vehicular and pedestrian traffic; signage for all construction within the public right of way shall comply with the City of Seattle Traffic Control Manual for In-Street Work, as amended. When required, the conditions on the traffic control plan shall supersede any conflicting provisions or requirements in the City of Seattle Traffic Control Manual for In-Street Work. A copy of the current City of Seattle Traffic Control Manual for In-Street Work and the approved traffic control plan shall be on site at all times.
2. **Lanes to remain open during peak hours.** Traffic lanes shall not be closed during the following peak hours: 6:00 AM - 9:00 AM and 3:00 PM - 7:00 PM in the Central Business District; and 7:00 AM - 9:00 AM and 4:00 PM - 6:00 PM for arterials elsewhere in the City, unless specifically noted on the approved traffic control plan.
3. **Maintain access.** Access to adjoining properties and businesses shall be maintained or accommodated during construction. Pedestrian access around construction sites shall be implemented and maintained per SDOT Director's Rule 10-2015, or successor rule.
4. **Width of temporary traffic lanes.** Temporary traffic lanes created during the permitted work shall be a minimum of 11 feet in width unless otherwise approved on the traffic control plan.
5. **Working within restricted curb spaces.** When the project impacts a restricted curb space, such as meters, pay stations, specific use and load



Project ID:	IMPACT Project ID: EX	Estimated Project Completion Date: 10/25/2019
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zones; the Permittee shall obtain permission from SDOT Traffic Operations and reserve the spaces with the Traffic Operations Permit Counter (206-684-5086) before starting work.

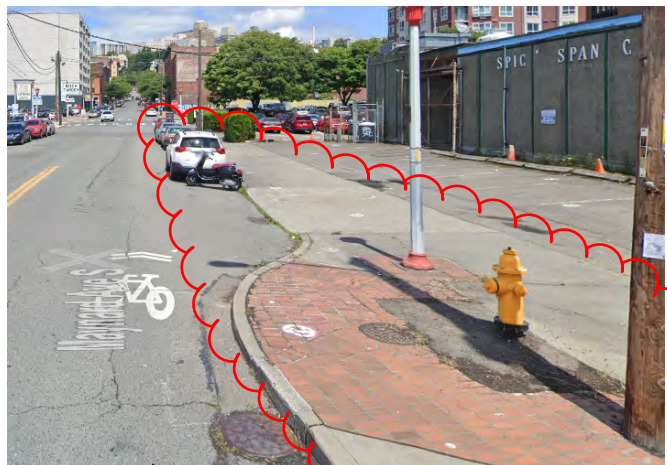
6. **Temporary No Parking signs and easels.** In areas without parking pay stations or parking meters, or when Traffic Operations allows reserved parking spaces to be controlled with Temporary No Parking signs, establishing a Temporary No Parking Zone requires placing type R7-T38 (T-38) or R7-T39 (T-39) easels and completing an online verification form in conformance with the Traffic Control Manual for In-Street Work. In high impact areas, the Central Business District, and in areas where construction projects are densely clustered (such as in City-designated "Construction Hubs"), additional requirements for establishing a Temporary No Parking Zone may apply.
7. **Nighttime illumination.** Four or more Type B warning lights of sufficient brilliance to be seen from 500 feet shall be maintained at all times during the hours of darkness at the points of obstruction or excavation of any right of way.
8. **Work in alleys.** For work occurring in alleys that impedes vehicular access, including but not limited to egress, ingress, or through travel; "Street Closed" signs shall be placed at each end of the alley. Property owners adjacent to the alley shall be contacted, and their access concerns shall be addressed and mitigated if possible. This may require alternative work scheduling in the case of Solid Waste collection days

TABLE XI-1

CLASS OF ROAD	WARNING SIGN SPACING IN FEET			TAPER LENGTH (L) IN FEET		CHANNELIZING DEVICE SPACING IN FEET (maximum)				WARNING SIGN MIN. SIZE IN INCHES
	A	B	C	Lane Width		VEHICLE BARRICADES & DRUMS		OTHER**		
				10'	12'	Taper (S)	Tangent	Taper (S)	Tangent	
I	*			75	90	Speed limit	Speed limit X 2	15	30	30X30
II	150	150	75	150	200	Speed limit	Speed limit X 2	20	50	30X30
III	350	350	350	450	540	Speed limit	Speed limit X 2	30	80	48X48

CLASS I – Central Business District, University District
 CLASS II – Arterial Streets
 CLASS III – All partially or full controlled access arterial streets

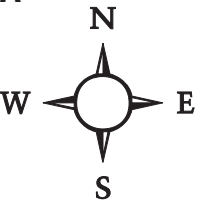
* Advance warning sign spacing depends on availability of curb space



CLOSE THREE PARKING STALLS AND ADJACENT SIDEWALK TO ALLOW EQUIPMENT DELIVERY TRUCK STAGING

RIGHT OF WAY IMPACT PLAN

TRAFFIC CONTROL PLAN
 SEATTLE, WA



NOT TO SCALE

Typical Sidewalk/Parking Lane Closure

○ Sidewalk on east side of Maynard Ave S closed between S Lane St & S Dearborn St.

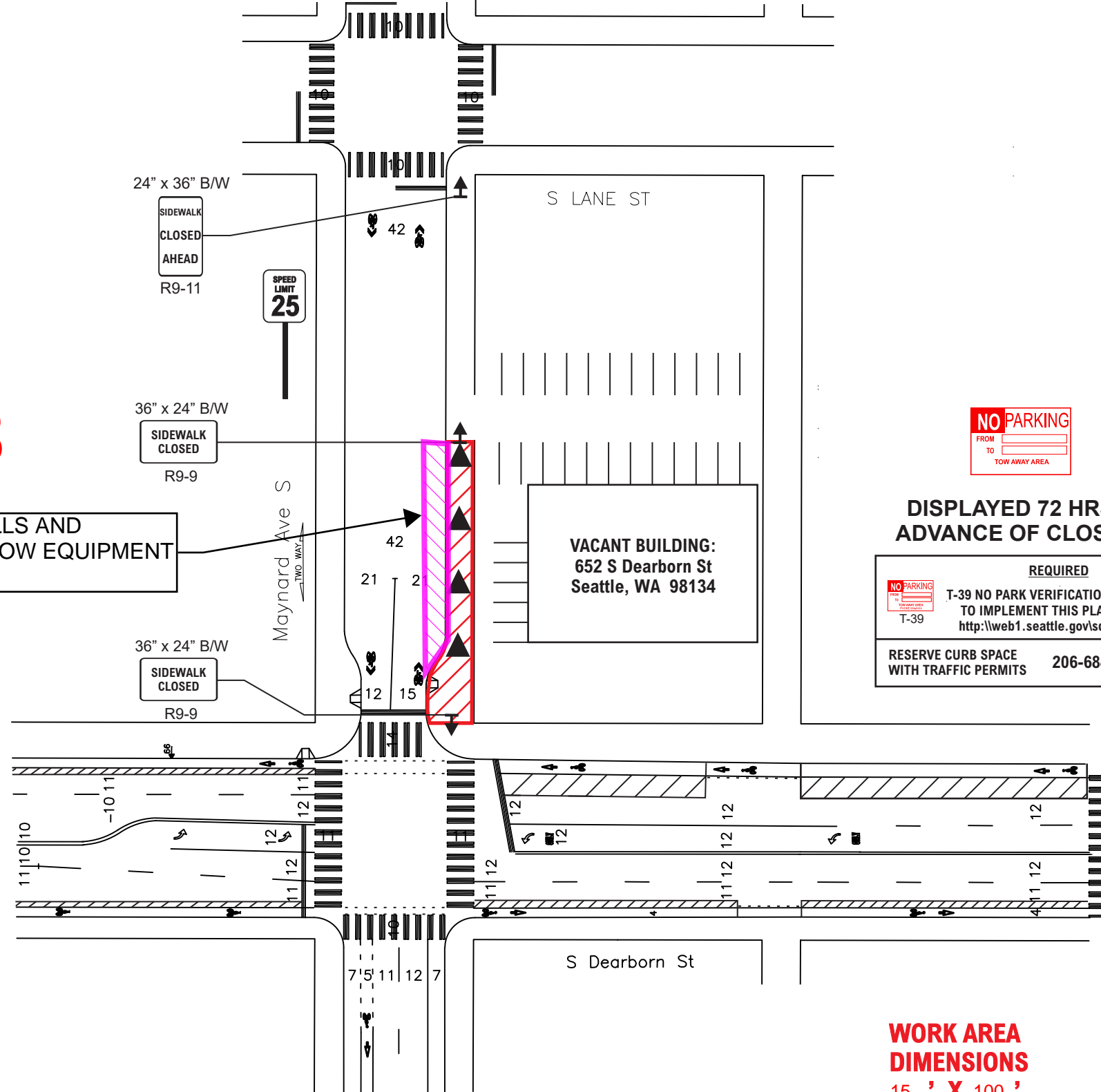
○ REASON: Receive and offload soil and groundwater remediation equipment skids

SDOT PERMIT# **399440**

DATES NEEDED **8/3 through 8/5**

REQUIRED CHECKLIST:

1. Pedestrians will cross street to bypass work area
2. No vehicle access issues
3. Traffic control shall be removed during non-working hours
4. No business access issues or special needs activities affected
5. Parking lane closed on east side of Maynard Ave S within work area
6. Bike Lane unaffected
7. METRO bus route present in vicinity of work area but not affected
8. No visibility restrictions
9. No signals affected or other street work in vicinity of work area
10. WORK TIMES _____



DISPLAYED 72 HRS IN ADVANCE OF CLOSURE

REQUIRED
 T-39 NO PARK VERIFICATION REQUIRED TO IMPLEMENT THIS PLAN. GO TO <http://web1.seattle.gov/sdot/nopark/>
 RESERVE CURB SPACE WITH TRAFFIC PERMITS 206-684-5086



LEGEND

- WORK AREA
- SIGN LOCATION
- NO PARK BARRICADE

GENERAL NOTES:

1. ALL SIGNS AND SPACING SHALL CONFORM TO THE CITY OF SEATTLE TRAFFIC CONTROL MANUAL FOR IN-STREET WORK.
2. NOTIFY LOCAL EMERGENCY SERVICES OF CLOSURE TIMES AND DATES (OPTIONAL).
3. ALERT KING COUNTY METRO CONSTRUCTION IN ADVANCE OF ROAD WORK (OPTIONAL). 5 BUSINESS DAYS: BUS 206-477-1140.
4. SIGN SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROAD CONDITIONS.
5. PROTECTIVE VEHICLE RECOMMENDED-MAY BE A WORK VEHICLE.
6. ALL SIGNS MIN. 30" x 30" UNLESS OTHERWISE SPECIFIED.
7. CHANNELIZATION DEVICES ARE 28" REFL. CONES (see TABLE XI-1 for spacing distances).
8. ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE AT-GRADE INTERSECTIONS AND/OR DRIVEWAYS.
9. STREET SHALL BE COMPLETELY CLEAR AND OPEN TO IT'S FULL WIDTH BETWEEN 6 AM - 9 AM AND 3 PM - 6 PM WEEKDAYS UNLESS EXTENDED HOURS APPROVED.

WORK AREA DIMENSIONS
15' X 100'



WASHINGTON STATE TRAFFIC CONTROL SUPERVISOR
 NAME: Greg Siler
 TCS CARD # 010498
 EXP. DATE 10/31/2020
 Greg Siler

CONTRACTOR Clear Creek Contractors	
SUPERVISOR Mark McCullough	WO # _____
PHONE NUMBER (office) 360.659.2459	PROJECT LOCATION Seattle, WA
PHONE NUMBER (fax) _____	SHEET NUMBER 1/1
DATE July 30, 2020	
PREPARED BY Mark McCullough	PHONE# 206.423.8120
E-MAIL markm@clearcreekcon.com	



Permit Number:
6730128-CN



CITY OF SEATTLE Construction Permit

Seattle Department of
Construction and Inspections
700 Fifth Ave, Suite 2000
P.O. Box 34019
Seattle, WA 98124-4019
(206) 684-8600

DIST 10

APN #:	Site Address: 652 S DEARBORN ST SEATTLE, WA 98134 Building ID: Location: Legal Description: APN: 524780-2485; LOTS 3-4, BLOCK 51, D S MAYNARDS LESS THE S 12' FOR STREET Records Filed At: 652 S DEARBORN ST
---------------	---

OWNER Mark McCullough 3203 15th St EVERETT, WA 98201	CONTRACTOR	Application Date: 05/30/2019 Issue Date: 05/30/2019 Expiration Date: 11/30/2020 Fees Paid: \$572.40 As of Print Date: 05/30/2019
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Description of Work: Construct interior alteration to existing commercial building, Subject to Field Inspection (STFI)

Permit Remarks:

Building Code: 2015 SEBC SDCI Valuation: \$15,000 Occupancy Cert Required: N Special Inspections: N Land Use Conditions: N Non-Separated Uses: N Site Final Required: N	Building Info: Basements: Stories: Mezzanines	Housing & Dwelling Unit this Permit:	Zoning/Overlay: IDM 85/85-170 Council District 2 URBAN_VILLAGE Yes, DWN TN_FIRE_DIST Yes ID_SPCL_RVW_DIST Yes Additional Information on File
---	---	---	---

Occupancy per Building Code						Approved Use per Land Use Code	
Floors	Type	Occupancy Group	Occupancy Type	Asmby Load	Fire	Use	Location

A/P #	Related Cases/Permits	Project Contacts	Name	Phone

Applicant Signature:  **Date:** 5/30/19

Permitted work must not progress without prior inspection approval. When ready for inspection, make request with the Seattle Department of Construction and Inspections at (206) 684-8900 or on the internet at: www.seattle.gov/dpd/permits/inspections/. Provide the permit number, site address, and contact phone. Permission is given to do the above work at the site address shown, according to the conditions hereon and according to the specification pertaining thereto, subject to compliance with the Ordinances of the City of Seattle. Correct information is the responsibility of the applicant. Permits with incorrect information may be subject to additional fees.

You Must Have a Paper Copy of Your Approved and Stamped Plan Set Available at Your Job Site for the City Inspector to Review. If You Do Not Have Your Plans Printed and Ready for Review, You May Fail Your Inspection.

February 25, 2016

Clean healthy air for
everyone, everywhere,
all the time.

Eric Geissinger
Aspect Consulting, LLC
401 2nd Ave S, Ste 201
Seattle, WA 98104

Dear Mr. Geissinger:

Facility Registration No. 22449
Notice of Construction No. 11093
Exemption from NOC Requirements

We have reviewed your 1/25/16 request for an exemption from Notice of Construction permit requirements for soil & groundwater remediation at Spic N Span Cleaners dry cleaning facility (Reg. 22449) using an electrical resistance heating and vapor extraction system controlled by two carbon vessels arranged in series.

The Puget Sound Clean Air Agency (Agency) concludes that this project does not require a Notice of Construction permit. This determination is made under the authority of Agency Regulation I Section 6.03(b)(10). This section exempts “Any source not otherwise exempt under Section 6.03(c) of this regulation that has been determined through review of a Notice of Construction application by the Control Officer not to warrant an Order of Approval because it has a de minimis impact on air quality and does not pose a threat to human health or the environment.”

If you have any questions about this determination, please contact Gerry Pade at 206-689-4065 or me at 206-689-4061.

Sincerely,



Carole Cenci, P.E.
Compliance Manager

CJC:ns

cc: Gerry Pade
Walter Voegtlin

Jae Lee
Spic N Span Cleaners
652 S Dearborn St
Seattle, WA 98134

Board of Directors

Bremerton
Patty Lent, Mayor

Everett
Ray Stephanson, Mayor
Paul Roberts, Board Chair

King County
Dow Constantine, Executive

Kitsap County
Edward Wolfe, Commissioner

Pierce County
Pat McCarthy, Executive

Public-at-Large
Stella Chao

Seattle
Ed Murray, Mayor

Snohomish County
Dave Somers, Councilmember

Tacoma
Ryan Mello, Councilmember

Executive Director
Craig T. Kenworthy

Phone
206.343.8800
800.552.3565

Fax
206.343.7522

Mail
1904 Third Avenue, Suite 105
Seattle, WA 98101-3317

APPENDIX B

Hazardous Building Materials Documentation



May 29, 2019

Ms. Delia Massey
Aspect Consulting
710 2nd Ave, Suite 550
Seattle, Washington 98104

**RE: TARGETED REGULATED BUILDING MATERIAL INSPECTION
SPIC 'N SPAN CLEANERS
652 SOUTH DEARBORN STREET
SEATTLE, WASHINGTON**

EMB Consulting Project #1526

Dear Ms. Massey,

This report presents the findings of the targeted regulated building material (RBM) inspection of the Spic 'N Span Cleaners buildings located at 652 South Dearborn Street in Seattle, Washington. The inspection was conducted in anticipation of a selective demolition project to prepare the site for remediation investigations by Aspect Consulting and their subcontractors. The RBMs covered by this inspection were limited to asbestos-containing material (ACM) and lead-based paint (LBP).

This report is organized to provide a summary of applicable regulations, methods, and results. A figure is included which shows the approximate location of asbestos samples collected, and photographs are provided of materials confirmed as ACM. Table 1 attached to the report provides a summary of the asbestos inspection results. The laboratory analytical data are also included with this report.

Regulations

Asbestos

The Washington State Department of Labor and Industries Division of Occupational Safety and Health (DOSH) (WAC 296-62 and -155) and the Puget Sound Clean Air Agency (PSCAA, Regulation 3) require that building owners conduct a good faith survey for ACM prior to demolition or renovation activities. The survey must be conducted by a certified asbestos building inspector under the Federal Asbestos Hazard and Emergency Response Act (AHERA, 40 CFR Part 763). Building materials that contain more than one percent asbestos are regulated as ACM and require special handling and disposal if disturbed or removed during project activities.



Lead-Based Paint

The Environmental Protection Agency (EPA) regulates lead-based paint (LBP) activities in residential target housing (40 CFR 745, Subpart L). These regulations include both training and certification requirements for persons involved in LBP activities in target housing, as well as work practice standards for conducting LBP inspections, risk assessments, and abatement activities. The regulations under 40 CFR 745, Subpart L do not apply to LBP activities for industrial properties, such as the subject buildings. DOSH, however, requires precautions to protect workers from exposure to lead from paint, regardless of the concentration of lead in paint (WAC 296-155-176).

Methods

Asbestos

EMB Consulting mobilized to the site on May 10, 2019 to conduct an inspection for ACM as a pre-demolition good faith survey for the selective demolition project in the Spic 'N Span Cleaners buildings. The scope of the survey was limited to the northwest corner of the Production Building and exposed pipe insulation in that building that might release fibers during vibrations caused by remediation investigation equipment. In addition, the west end of the Maintenance Building was also inspected.

Samples of suspect materials were collected in the field by Elisabeth Black, CIH, an AHERA-Certified Building Inspector. EMB Consulting assigned each sample a unique number to identify the material from which the sample was collected. Sample bags were labeled at the time of sample collection with the Sample ID number. The labeled samples were then placed in a larger Ziploc™ type bag and sealed for additional protection during handling and transportation. Samples were recorded on a Chain of Custody for delivery to the laboratory for analysis. Suspect asbestos samples and chain of custody were sent to NVL Laboratories of Seattle, Washington for analysis.

Suspect ACM bulk samples were analyzed using polarized light microscopy (PLM) by the Interim Method for Determination of Asbestos in Bulk Insulation Samples (EPA Method 600/M4 82 020). Samples that contained <1% or greater than 1% asbestos by PLM, but less than 10% asbestos, were reanalyzed by 400 Point Count (EPA Method 600/R93/116). NVL Laboratories is accredited for asbestos analysis by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP). Materials were considered to be positive for asbestos if they contained more than one percent asbestos by point count.

Sample locations are provided on the attached figure. Photographs of confirmed ACMs are provided at the end of this report. A complete list of the samples collected, sample locations, and results is provided in Table 1.

Lead in Paint

EMB Consulting conducted a screening-level inspection for lead in the areas of the two buildings that will be the subject of selective demolition. The screening included use of 3M LeadCheck™ swabs. LeadCheck swabs are recognized by the EPA as an acceptable screening tool for lead. The swabs provide a rapid test for lead on most surfaces. When lead is detected,

LeadCheck swabs turn red on contact. Each kit contains test confirmation cards to verify individual test results.

The swabs provide for a quick screening of multiple surfaces for lead, to target the surfaces that contain 600 parts per million (ppm) lead or greater or one microgram of lead. If no lead is indicated during screening, lead samples are not collected. If lead is indicated, bulk samples are collected for laboratory analysis. Lead was not indicated on any of the surfaces tested, so bulk samples were not collected.

Results

Asbestos

The results of the asbestos survey are summarized in this section. Table 1 provides the analytical results for the 19 suspect asbestos bulk samples collected by EMB Consulting for analysis. The attached figure illustrates approximate sample locations. Laboratory certificates of analysis and custody forms are attached to this report.

The samples consisted of:

- Two samples of cove base/mastic from the Production Building;
- Two samples of ceiling tile (one with mastic) from the Production Building;
- One sample of expansion joint from the Production Building exterior (northwest corner);
- Three samples of wallboard from the Production Building;
- Seven samples of pipe insulation materials (five from the Production Building and two from the Maintenance Building); and
- Four samples of vinyl tile flooring and mastic from the Production Building.

ACM was confirmed in the following types of material:

- All pipe insulation shall be assumed ACM, to include the insulation around the pipes and all elbows; and
- All vinyl flooring and associated mastic shall be assumed ACM.

Photographs of these materials are provided at the end of this report.

In addition, the sliding fire doors in the Maintenance Building should be assumed ACM. Based on this assessment it did not appear likely that the doors would be impacted by remediation activities. If the doors will be removed for disposal, they should be assumed ACM.

All ACM must be removed and disposed of by a Washington-certified asbestos abatement contractor prior to selective demolition or activities that could disturb the ACM.

Lead-Based Paint

The following surfaces were screened for lead-based paint at the Spic 'n Span facility on May 10, 2019.

- Exterior of Production Building and Maintenance Building
 - dark green paint on wooden joint decorations

- Interior of Production Building
 - white painted cement wall - north
 - white and grey painted drywall in Office and interior Office rooms
 - brown painted door/window frames in the Office and interior Office rooms

Lead was not indicated on any of the surfaces identified for selective demolition.

Limitations

Work for this project was performed, and this report prepared, in accordance with generally accepted professional practices for the nature and conditions of the work completed in the same or similar localities at the time the work was performed. It is intended for the exclusive use of Aspect Consulting and its contractors for specific application to the referenced structures. No other warranty, express or implied, is made.

I appreciate the opportunity to be of service to you. Please contact me if you have questions regarding this report, or if you require additional information.

Sincerely,

A handwritten signature in blue ink that reads "E. Black".

Elisabeth Black, CIH
EMB Consulting LLC

Attachments:

Figure with Sample Locations

Photographs

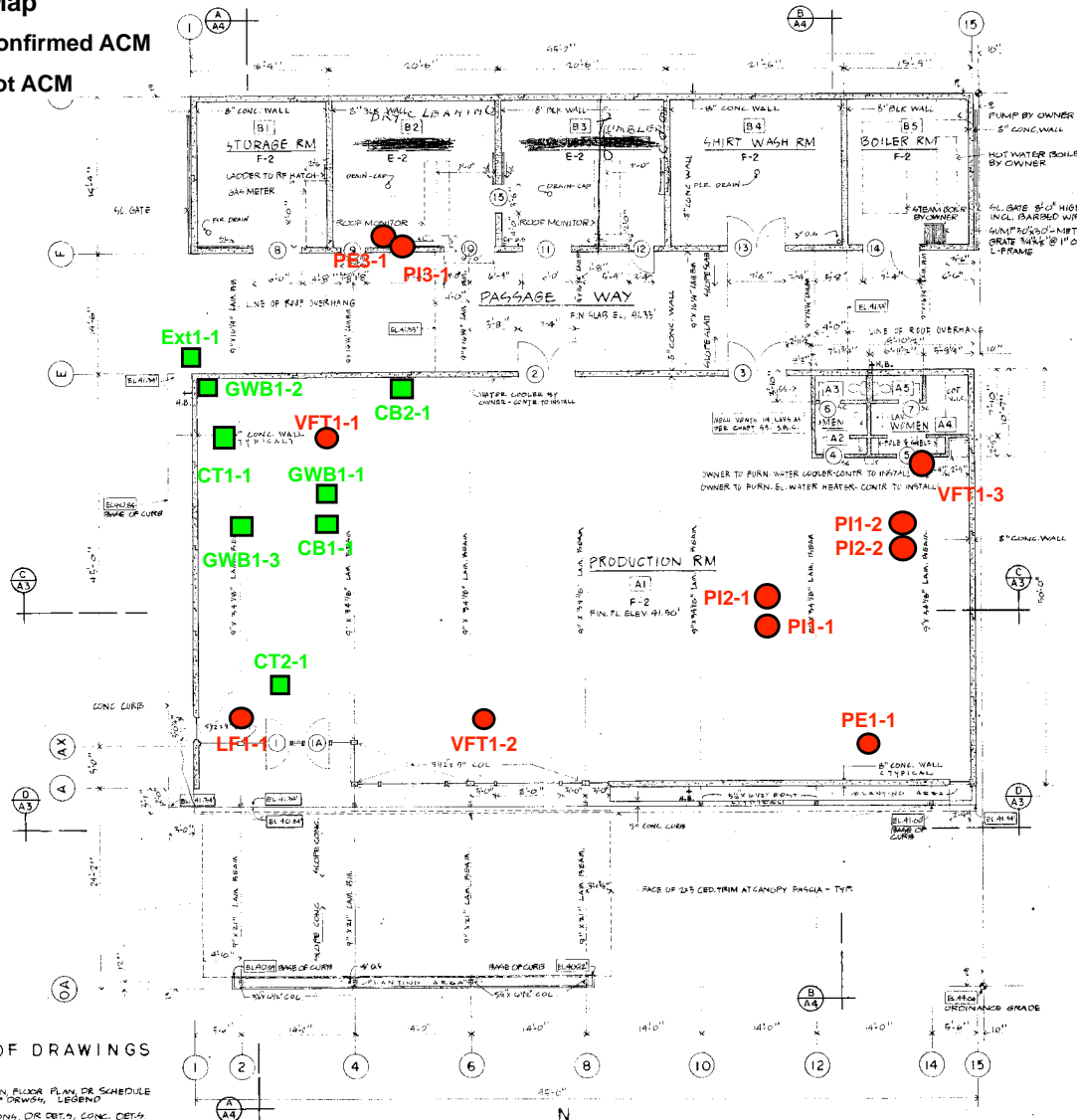
Table 1 – Bulk Asbestos Sample Results, Spic 'n Span Cleaners

NVL Laboratories, Bulk Asbestos Fiber Analysis, NVL Batch #1909870, May 16, 2019

NVL Laboratories, Bulk Asbestos Fiber Concentration by Point Count, NVL Batch #1909932, May 23, 2019

Sample Location Map

- Sample Location - Confirmed ACM
- Sample Location - Not ACM



INDEX OF DRAWINGS

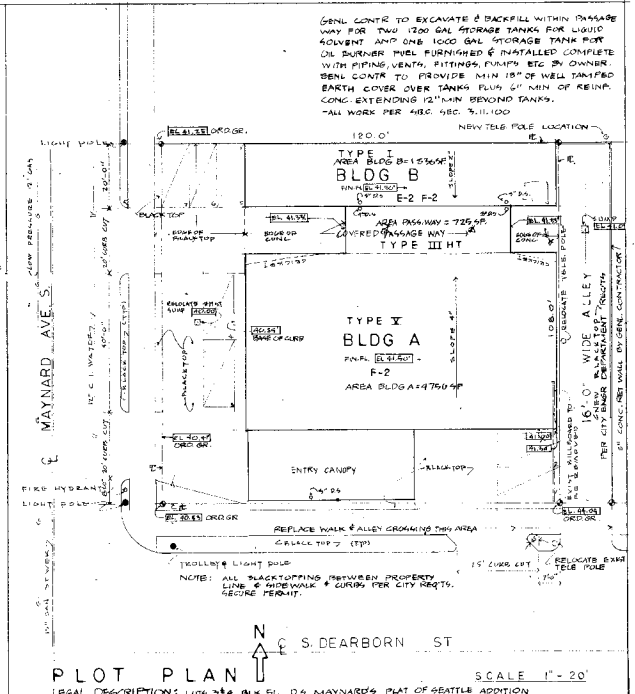
- A1 PLOT PLAN, FLOOR PLAN, DR. SCHEDULE INDEX OF DRAWING, LEGEND ELEVATIONS, OR DETS., CONC. DETS.
- A2 SECTIONS
- A4 SECTIONS, MONITOR PLAN & DETAILS
- A5 DETAILS
- S1 FOUNDATION PLAN, DETS., GEN'L NOTES
- S2 ROOF FRAMING PLAN, DETS.
- E1 ELECTRICAL LAY-OUT (SEPARATE CONTRACT - HAS BEEN AWARDED)

FLOOR PLAN

SCALE 1/8" = 1'-0"

LEGEND

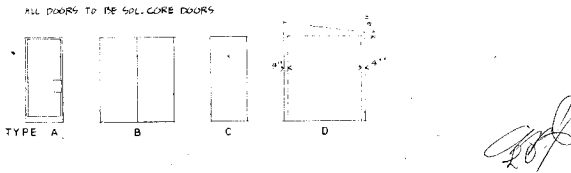
- (A1) DETAIL NUMBER OR SECTION NO. SHEET WHERE DETAIL OR SEC. IS CUT OR IS DETAILED
- CONC. WALL OR GLAZ. Poured in place or tilt-up
- CONC. BLOCK WALL - 16" WEB PA THIRDS COURSE
- STUD WALL
- FINISHED ELEVATION AT ARROW POINT.
- EXISTING ELEVATION AT ARROW POINT.



PLOT PLAN SCALE 1" = 20'
LEGAL DESCRIPTION: LOT 384, BLK 51, D4 MAYNARD'S PLAT OF SEATTLE ADDITION

DOOR SCHEDULE

DR NO	LOCATION	SIZE	MAT	FRAME	TYPE	HWE	REMARKS	
1	PROD. RM	38 x 78 x 1 3/4	ALUM	ALUM	A	1	ALL HARDWARE EXCEPT CYL. BY DOOR MFR	
2		38 x 78 x 1 3/4	ALUM	ALUM	A	1		
3		38 x 72 x 1 3/4	PAIR	MET	B	6	LBL CL.D. 90L ANTI-RABAL	
4		38 x 72 x 1 3/4	PAIR	MET	B	6	LBL CL.D.	
5	MENA RM	28 x 72 x 1 3/4	PIR	PIR	C	3		
6	WOMA RM	28 x 72 x 1 3/4	PIR	PIR	C	3		
7	MENA RM	28 x 68 x 1 3/4	PIR	PIR	C	7	LULLVRE 20"x12"	
8	WOMA RM	28 x 68 x 1 3/4	PIR	PIR	C	7	LULLVRE 20"x12"	
9	STORAGE RM	68 x 78 x 1 3/4	MET GL	MET	D	4	LBL CL.D.	
10	TUMBL RM	38 x 78 x 1 3/4	MET GL	MET	C	5	LBL CL.A. *2" MET. RAB.	
11		68 x 78 x 1 3/4	MET GL	MET	D	4	LBL CL.A.	
12		38 x 78 x 1 3/4	MET GL	MET	C	5	LBL CL.A. *2" MET. RAB.	
13	4 HIRT WASH	38 x 78 x 1 3/4	PAIR	MET GL	B	6	90L CL.D. INTL. ANTI-RABAL	
14	BOILER RM	38 x 78 x 1 3/4	PAIR	MET GL	B	2	SELF CLOSER ON ACT. LEAF	
15	TUMBL RM	38 x 78 x 1 3/4	TWO	MET GL	MET	D	4	LBL CL.A. TWO DOORS



BITTMAN & SANDERS
406 SECURITIES BUILDING, SEATTLE 1

ARCHITECTS **A-I-A**



PLOT PLAN, FLOOR PLAN, OR SCHEDULE, INDEX, LEGEND
A NEW DRY CLEANING PLANT FOR SPIC N SPAN CLEANERS
452 S. DEARBORN ST. SEATTLE, WASH
JOB NO. 389 DRAWN BY SMJ, HAS CHECKED BY

SCALE	NOTED
DATE	MAY 22, 69
SHEET	A1
	OF 5

Photographs of Confirmed ACM



Photograph 1 – Pipe Elbow (PE1-1), Production Building



Photograph 2 – Pipe Elbow (PE3-1), Maintenance Building



Photograph 3 – Pipe Insulation (PI1-1) Production Building



Photograph 4 – Pipe Insulation (PI2-1), Production Building



Photograph 5 – Pipe Insulation (PI1-2 and PI2-2), Production Building



Photograph 6 – Pipe Insulation (PI1-3), Maintenance Building



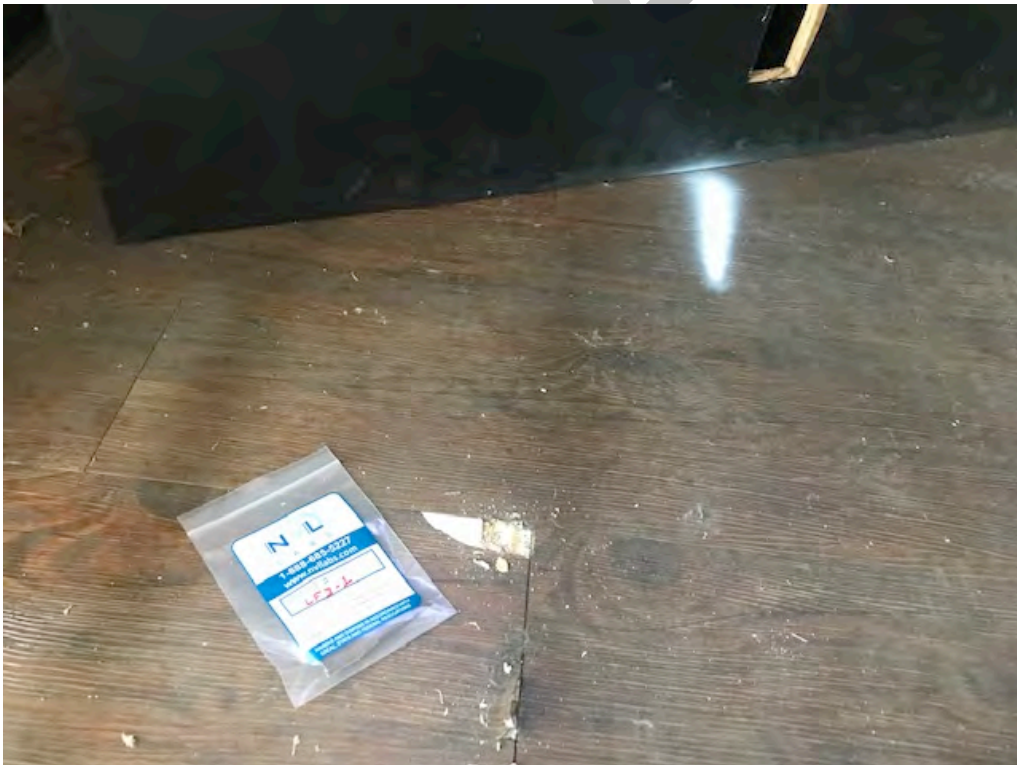
Photograph 7 – Vinyl Floor Tile/Mastic (VFT1-1), Production Building



Photograph 8 – Vinyl Floor Tile/Mastic (VFT1-2), Production Building



Photograph 9 – Vinyl Floor Tile/Mastic (VFT1-3), Production Building



Photograph 10 – Laminate flooring over ACM flooring (LF1-1), Production Building

Table 1: Bulk Asbestos Sample Results
Spic 'N Span Cleaners
652 S Dearborn Street
Seattle, Washington

Sample ID	Material Description (color)	Sample Location	Asbestos (in Percent)	Material Quantity (if ACM)
CB1-1	Covebase - 4" L1: Rubber (brown) L2: Mastic (tan) L3: Joint Compound (white)	Interior Production Building Office SE Corner	L1: ND L2: ND L3: ND	
CB2-1	Covebase - 3" L1: Rubber (brown) L2: Mastic (brown)	Interior Production Building N Wall W Side by Office	L1: ND L2: ND	
CT1-1	Ceiling Tile (12" x 12") L1: Cellulose Tile (tan/white) L2: Adhesive (brown)	Interior Production Building Office NW Corner	L1: ND L2: ND	
CT2-1	Ceiling Tile (suspended frame - tan/white)	Interior Production Building Entry Center	ND	
EXT1-1	Exterior Wall Material L1: Expansion Joint (grey) L2: Concrete (grey)	Exterior Production Building NW Corner	L1: ND L2: ND	
GWB1-1	Gypsum Wallboard L1: Joint Compound (white) L2: Paper (white) L3: Gypsum (white)	Interior Production Building Office SE Corner	L1: ND L2: ND L3: ND	
GWB1-2	Gypsum Wallboard L1: Joint Compound (white) L2: Paper (white) L3: Gypsum (white)	Interior Production Building Office NW Corner	L1: 0.5% crysotile by point count L2: ND L3: ND	
GWB1-3	Gypsum Wallboard L1: Paper (white) L2: Gypsum (white)	Interior Production Building Outside of Office South Side	L1: ND L2: ND	

Table 1: Bulk Asbestos Sample Results
Spic 'N Span Cleaners
652 S Dearborn Street
Seattle, Washington

Sample ID	Material Description (color)	Sample Location	Asbestos (in Percent)	Material Quantity (if ACM)
LF1-1	Laminate Flooring (over 9x9 tiles) L1: Mastic (tan) L2: Vinyl (grey/tan) L3: Covering (grey) L4: Mastic (yellow) L5: Vinyl Tile (beige) L6: Mastic (black)	Interior Production Building Entry SW Corner	L1: ND L2: ND L3: ND L4: ND L5: 2% Chrysotile L6: 3% Chrysotile	all 9x9 Vinyl Tile and Mastic should be considered ACM Estimated Quantity 650 ft ²
PE1-1	Pipe Elbow (brown exterior) L1: Mesh Cover (white) L2: Insulation (white)	Interior Production Building South Side East End	L1: ND L2: 5% Chrysotile	all elbows are considered ACM 60 elbows
PE3-1	Pipe Elbow (white)	Interior Maintenance Building Dry Cleaning Room South Wall	12% Chrysotile	

Table 1: Bulk Asbestos Sample Results
Spic 'N Span Cleaners
652 S Dearborn Street
Seattle, Washington

Sample ID	Material Description (color)	Sample Location	Asbestos (in Percent)	Material Quantity (if ACM)
PI1-1	Pipe Insulation (brown exterior) L1: Mastic (off-white) L2: Mesh Cover (white) L3: Insulation (white)	Interior Production Building East Side Center	L1: ND L2: ND L3: 5% Chrysotile 15% Amosite	all pipe insulation is considered ACM 1,000 lf
PI1-2	Pipe Insulation (brown exterior) L1: Mastic (off-white) L2: Mesh Cover (white) L3: Insulation (white)	Interior Production Building East Side At Ceiling	L1: ND L2: ND L3: ND	
PI2-1	Pipe Insulation (mustard exterior) L2: Mesh Cover (white) L3: Insulation (white)	Interior Production Building East Side At Ceiling	L1: ND L2: 25% Chrysotile 4% Amosite	
PI2-2	Pipe Insulation (mustard exterior) L1: Mastic (off-white) L2: Insulation (white) L3: Insulation (yellow)	Interior Production Building East Side At Ceiling	L1: ND L2: 15% Chrysotile 8% Amosite L3: ND	
PI3-1	Pipe Insulation (white)	Interior Maintenance Building Dry Cleaning Room South Wall	23% Chrysotile 10% Amosite	

Table 1: Bulk Asbestos Sample Results
Spic 'N Span Cleaners
652 S Dearborn Street
Seattle, Washington

Sample ID	Material Description (color)	Sample Location	Asbestos (in Percent)	Material Quantity (if ACM)
VFT1-1	Vinyl Floor Tile L1: Vinyl Tile (beige) L2: Mastic (black) L3: Powdery Material (off-white)	Interior Production Building Office Restroom Threshold	L1: 3% Chrysotile L2: ND L3: ND	All 9x9 Vinyl Tile and Mastic should be considered ACM Estimated Quantity 6,000 ft ²
VFT1-2	Vinyl Floor Tile L1: Vinyl Tile (beige) L2: Mastic (black)	Interior Production Building South Side Center	L1: 3% Chrysotile L2: ND	
VFT1-3	Vinyl Floor Tile L1: Mastic (tan) L2: Vinyl Tile (beige) L3: Mastic (black)	Interior Production Building East Side Threshold to Women's	L1: ND L2: 3% Chrysotile L3: ND	

ACM Asbestos-Containing Material

L: Layer

ND Non-Detect

lf linear feet

ft² square feet

May 16, 2019



Elisabeth Black
EMB Consulting, LLC
22725 44th Ave W. #203
Mountlake Terrace, WA 98043

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1909870.00

Client Project: Elisabeth Black
Location: Spic 'n' Span

Dear Ms. Black,

Enclosed please find test results for the 19 sample(s) submitted to our laboratory for analysis on 5/10/2019.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read "Matt Macfarlane".

Matt Macfarlane, Asbestos Lab Supervisor



Lab Code: 102063-0

Enc.: Sample Results

Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EMB Consulting, LLC
 Address: 22725 44th Ave W. #203
 Mountlake Terrace, WA 98043

Batch #: 1909870.00
 Client Project #: Elisabeth Black
 Date Received: 5/10/2019
 Samples Received: 19
 Samples Analyzed: 19
 Method: EPA/600/R-93/116
 & EPA/600/M4-82-020

Attention: Ms. Elisabeth Black
 Project Location: Spic 'n' Span

Lab ID: 19051107 Client Sample #: CB1-1

Location: Spic 'n' Span

Layer 1 of 3	Description: Brown rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Calcareous particles, Rubber/Binder	None Detected ND	None Detected ND
Layer 2 of 3	Description: Tan soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Mastic/Binder	Synthetic fibers <1%	None Detected ND
Layer 3 of 3	Description: Trace thin white compacted powdery material with white paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Calcareous binder, Calcareous particles, Paint	None Detected ND	None Detected ND

Lab ID: 19051108 Client Sample #: CB2-1

Location: Spic 'n' Span

Comments: Qualitative analysis was conducted for the presence of asbestos fibers in this layer 1.

Layer 1 of 2	Description: Brown rubbery material with debris		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Calcareous particles, Insect parts, Rubber/Binder	Cellulose	None Detected ND
		Synthetic fibers	
		Hair	
		Spider silk	
Layer 2 of 2	Description: Brown brittle mastic with cream paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Mastic/Binder, Paint	None Detected ND	None Detected ND

Sampled by: Client
Analyzed by: Alla Prysyazhnyuk **Date:** 05/14/2019
Reviewed by: Matt Macfarlane **Date:** 05/16/2019 Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EMB Consulting, LLC
 Address: 22725 44th Ave W. #203
 Mountlake Terrace, WA 98043

Batch #: 1909870.00
 Client Project #: Elisabeth Black
 Date Received: 5/10/2019
 Samples Received: 19
 Samples Analyzed: 19
 Method: EPA/600/R-93/116
 & EPA/600/M4-82-020

Attention: Ms. Elisabeth Black
 Project Location: Spic 'n' Span

Lab ID: 19051109 Client Sample #: CT1-1

Location: Spic 'n' Span

Layer 1 of 2	Description: Beige compressed fibrous material with off-white paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler, Paint	Wood fibers 98%		None Detected ND
Layer 2 of 2	Description: Brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Mastic/Binder	None Detected ND		None Detected ND

Lab ID: 19051110 Client Sample #: CT2-1


Location: Spic 'n' Span

Layer 1 of 1	Description: Tan compressed fibrous material with white coating			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler, Calcareous particles, Perlite	Cellulose 85%		None Detected ND
		Glass fibers 5%		
		Spider silk <1%		

Lab ID: 19051111 Client Sample #: EXT1-1

Location: Spic 'n' Span

Layer 1 of 2	Description: Light gray soft material			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler	None Detected ND		None Detected ND
Layer 2 of 2	Description: Gray sandy/brittle material with white trace paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler, Granules, Paint	None Detected ND		None Detected ND
	Rust, Sand			

Sampled by: Client
Analyzed by: Alla Prysyazhnyuk **Date:** 05/14/2019
Reviewed by: Matt Macfarlane **Date:** 05/16/2019 
 Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

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 Address: 22725 44th Ave W. #203
 Mountlake Terrace, WA 98043

Batch #: 1909870.00
 Client Project #: Elisabeth Black
 Date Received: 5/10/2019
 Samples Received: 19
 Samples Analyzed: 19
 Method: EPA/600/R-93/116
 & EPA/600/M4-82-020

Attention: Ms. Elisabeth Black
 Project Location: Spic 'n' Span

Lab ID: 19051112 Client Sample #: GWB1-1

Location: Spic 'n' Span

Layer 1 of 3	Description: White compressed compacted powdery material with light cream paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler, Calcareous particles, Paint	None Detected ND		None Detected ND
Layer 2 of 3	Description: White thin fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler	Cellulose 12%		None Detected ND
Layer 3 of 3	Description: White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Calcareous particles, Gypsum/Binder, Mica	Cellulose 20%		None Detected ND
		Glass fibers 6%		

Lab ID: 19051113 Client Sample #: GWB1-2

Location: Spic 'n' Span

Layer 1 of 3	Description: White compacted powdery material with layered paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Calcareous binder, Calcareous particles, Paint	None Detected ND		Chrysotile 2%
Layer 2 of 3	Description: Beige fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler	Cellulose 30%		None Detected ND
Layer 3 of 3	Description: Off-white chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Calcareous particles, Gypsum/Binder	Cellulose 19%		None Detected ND
		Glass fibers 2%		

Sampled by: Client		
Analyzed by: Alla Prysyazhnyuk	Date: 05/14/2019	
Reviewed by: Matt Macfarlane	Date: 05/16/2019	Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EMB Consulting, LLC
 Address: 22725 44th Ave W. #203
 Mountlake Terrace, WA 98043

Batch #: 1909870.00
 Client Project #: Elisabeth Black
 Date Received: 5/10/2019
 Samples Received: 19
 Samples Analyzed: 19
 Method: EPA/600/R-93/116
 & EPA/600/M4-82-020

Attention: Ms. Elisabeth Black
 Project Location: Spic 'n' Span

Lab ID: 19051114 Client Sample #: GWB1-3

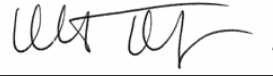
Location: Spic 'n' Span

Layer 1 of 2	Description: White thin fibrous material with light gray/white paint	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
		Binder/Filler, Paint	Cellulose 15%		None Detected ND
Layer 2 of 2	Description: White chalky material with paper	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
		Gypsum/Binder, Fine particles	Cellulose 22%		None Detected ND
			Glass fibers 5%		

Lab ID: 19051115 Client Sample #: LF1-1

Location: Spic 'n' Span

Layer 1 of 6	Description: Tan soft mastic	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
		Fine particles, Mastic/Binder	Cellulose <1%		None Detected ND
Layer 2 of 6	Description: Gray soft vinyl tile with tan surface	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
		Binder/Filler, Calcareous particles, Fine grains	None Detected ND		None Detected ND
			Vinyl/Binder		
Layer 3 of 6	Description: Gray thin soft material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
		Binder/Filler, Calcareous particles	None Detected ND		None Detected ND
Layer 4 of 6	Description: Yellow soft mastic	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
		Fine particles, Mastic/Binder	None Detected ND		None Detected ND

Sampled by: Client
Analyzed by: Alla Prysyazhnyuk **Date:** 05/14/2019
Reviewed by: Matt Macfarlane **Date:** 05/16/2019 
 Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EMB Consulting, LLC
 Address: 22725 44th Ave W. #203
 Mountlake Terrace, WA 98043

Batch #: 1909870.00
 Client Project #: Elisabeth Black
 Date Received: 5/10/2019
 Samples Received: 19
 Samples Analyzed: 19
 Method: EPA/600/R-93/116
 & EPA/600/M4-82-020

Attention: Ms. Elisabeth Black
 Project Location: Spic 'n' Span

Layer 5 of 6	Description: Beige tile			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler, Calcareous particles, Mineral grains	None Detected ND		Chrysotile 2%
Layer 6 of 6	Description: Trace thin soft black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Asphalt/Binder	None Detected ND		Chrysotile 3%

Lab ID: 19051116 Client Sample #: PE1-1

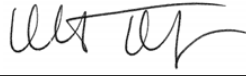
Location: Spic 'n' Span

Layer 1 of 2	Description: White woven fibrous mesh with brown/green paint and yellow mastic			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler, Mastic/Binder, Paint	Cellulose 23%		None Detected ND
Layer 2 of 2	Description: Off-white compressed powdery material with woven fibrous mesh and mastic			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler, Fine particles, Mineral beads	Cellulose 19%		Chrysotile 5%
	Mastic/Binder	Mineral wool 15%		

Lab ID: 19051117 Client Sample #: PI1-1

Location: Spic 'n' Span

Layer 1 of 3	Description: Off-white thin brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Calcareous particles, Mastic/Binder	None Detected ND		None Detected ND
Layer 2 of 3	Description: White woven fibrous mesh with brown/green paint and yellow thin mastic			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler, Mastic/Binder, Paint	Cellulose 20%		None Detected ND

Sampled by: Client		
Analyzed by: Alla Prysyazhnyuk	Date: 05/14/2019	
Reviewed by: Matt Macfarlane	Date: 05/16/2019	Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EMB Consulting, LLC
 Address: 22725 44th Ave W. #203
 Mountlake Terrace, WA 98043

Batch #: 1909870.00
 Client Project #: Elisabeth Black
 Date Received: 5/10/2019
 Samples Received: 19
 Samples Analyzed: 19
 Method: EPA/600/R-93/116
 & EPA/600/M4-82-020

Attention: Ms. Elisabeth Black
 Project Location: Spic 'n' Span

Layer 3 of 3	Description: Pale gray compressed powdery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Fine particles	None Detected	ND	Chrysotile 5%
				Amosite 15%

Lab ID: 19051118 **Client Sample #: PI1-2**

Location: Spic 'n' Span


Comments: Qualitative analysis was conducted for the presence of asbestos fibers in this layer 3.

Layer 1 of 3	Description: Tan woven fibrous mesh with tan/green paint and mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Mastic/Binder	Cellulose	18%	None Detected ND
Layer 2 of 3	Description: Yellow fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Adhesive/Binder, Glass beads	Glass fibers	65%	None Detected ND
Layer 3 of 3	Description: Gray fibrous debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Fine particles	Cellulose		None Detected ND
		Synthetic fibers		
		Spider silk		

Lab ID: 19051119 **Client Sample #: PI2-1**

Location: Spic 'n' Span

Layer 1 of 2	Description: White woven fibrous mesh with tan/green paint and yellow thin mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Debris, Mastic/Binder	Cellulose	17%	None Detected ND
	Paint			

Sampled by: Client
Analyzed by: Alla Prysyazhnyuk **Date:** 05/14/2019
Reviewed by: Matt Macfarlane **Date:** 05/16/2019 
 Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

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 Address: 22725 44th Ave W. #203
 Mountlake Terrace, WA 98043

Batch #: 1909870.00
 Client Project #: Elisabeth Black
 Date Received: 5/10/2019
 Samples Received: 19
 Samples Analyzed: 19
 Method: EPA/600/R-93/116
 & EPA/600/M4-82-020

Attention: Ms. Elisabeth Black
 Project Location: Spic 'n' Span

Layer 2 of 2 **Description:** Off-white compressed powdery material

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler, Fine particles, Mineral beads	Mineral wool 10%	Chrysotile 25%
		Amosite 4%

Lab ID: 19051120 Client Sample #: PI2-2

Location: Spic 'n' Span

Layer 1 of 3 **Description:** White woven fibrous mesh with tan/green paint and yellow thin mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler, Fine particles, Mastic/Binder	Cellulose 15%	None Detected ND
Paint		

Layer 2 of 3 **Description:** Off-white compressed powdery material with white woven mesh

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler, Fine particles, Mineral beads	Synthetic fibers 18%	Chrysotile 15%
	Mineral wool <1%	Amosite 8%

Layer 3 of 3 **Description:** Yellow fibrous material

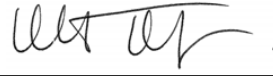
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Adhesive/Binder, Glass beads	Glass fibers 56%	None Detected ND

Lab ID: 19051121 Client Sample #: PE3-1

Location: Spic 'n' Span

Layer 1 of 1 **Description:** Off-white compressed powdery material with white woven mesh and trace mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler, Fine particles, Mineral beads	Synthetic fibers 19%	Chrysotile 12%
Mastic/Binder	Mineral wool 10%	

Sampled by: Client		
Analyzed by: Alla Prysyazhnyuk	Date: 05/14/2019	
Reviewed by: Matt Macfarlane	Date: 05/16/2019	Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EMB Consulting, LLC
 Address: 22725 44th Ave W. #203
 Mountlake Terrace, WA 98043

Batch #: 1909870.00
 Client Project #: Elisabeth Black
 Date Received: 5/10/2019
 Samples Received: 19
 Samples Analyzed: 19
 Method: EPA/600/R-93/116
 & EPA/600/M4-82-020

Attention: Ms. Elisabeth Black
 Project Location: Spic 'n' Span

Lab ID: 19051122 Client Sample #: PI3-1

Location: Spic 'n' Span

Layer 1 of 1 Description: Off-white compressed powdery material with woven fibrous mesh

Non-Fibrous Materials:	Other Fibrous Materials:%
Binder/Filler, Fine particles	Synthetic fibers 17%

Asbestos Type: %
Chrysotile 23%
Amosite 10%

Lab ID: 19051123 Client Sample #: VFT1-1

Location: Spic 'n' Span

Comments: Unable to analyze tan mastic as a separate layer in layer 2.

Layer 1 of 3 Description: Beige tile

Non-Fibrous Materials:	Other Fibrous Materials:%
Binder/Filler, Calcareous particles, Mineral grains	None Detected ND

Asbestos Type: %
Chrysotile 3%

Layer 2 of 3 Description: Black asphaltic and trace tan mastic

Non-Fibrous Materials:	Other Fibrous Materials:%
Asphalt/Binder, Mastic/Binder	Cellulose <1%

Asbestos Type: %
None Detected ND

Layer 3 of 3 Description: Off-white textured powdery material

Non-Fibrous Materials:	Other Fibrous Materials:%
Binder/Filler, Fine particles	None Detected ND

Asbestos Type: %
None Detected ND


Lab ID: 19051124 Client Sample #: VFT1-2

Location: Spic 'n' Span

Layer 1 of 2 Description: Beige tile

Non-Fibrous Materials:	Other Fibrous Materials:%
Binder/Filler, Calcareous particles, Mineral grains	None Detected ND

Asbestos Type: %
Chrysotile 2%

Sampled by: Client
Analyzed by: Alla Prysyazhnyuk **Date:** 05/14/2019
Reviewed by: Matt Macfarlane **Date:** 05/16/2019 
 Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis


By Polarized Light Microscopy

Client: EMB Consulting, LLC
 Address: 22725 44th Ave W. #203
 Mountlake Terrace, WA 98043

Batch #: 1909870.00
 Client Project #: Elisabeth Black
 Date Received: 5/10/2019
 Samples Received: 19
 Samples Analyzed: 19
 Method: EPA/600/R-93/116
 & EPA/600/M4-82-020

Attention: Ms. Elisabeth Black
 Project Location: Spic 'n' Span

Layer 2 of 2	Description: Black asphaltic mastic	Non-Fibrous Materials: Asphalt/Binder, Fine particles, Mastic/Binder	Other Fibrous Materials:% Cellulose <1%	Asbestos Type: % None Detected ND
Lab ID: 19051125	Client Sample #: VFT1-3			
Location: Spic 'n' Span				
Layer 1 of 3	Description: Tan brittle mastic	Non-Fibrous Materials: Fine particles, Mastic/Binder	Other Fibrous Materials:% None Detected ND	Asbestos Type: % None Detected ND
Layer 2 of 3	Description: Beige tile	Non-Fibrous Materials: Binder/Filler, Calcareous particles, Mineral grains	Other Fibrous Materials:% None Detected ND	Asbestos Type: % Chrysotile 3%
Layer 3 of 3	Description: Black asphaltic mastic	Non-Fibrous Materials: Binder/Filler, Fine particles	Other Fibrous Materials:% Cellulose <1%	Asbestos Type: % None Detected ND

Sampled by: Client	
Analyzed by: Alla Prysyazhnyuk	Date: 05/14/2019
Reviewed by: Matt Macfarlane	Date: 05/16/2019
	 Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

ASBESTOS LABORATORY SERVICES



Company EMB Consulting, LLC Address 22725 44th Ave W. #203 Mountlake Terrace, WA 98043 Project Manager Ms. Elisabeth Black Phone (206) 915-2395	NVL Batch Number 1909870.00 TAT 1 Day AH No Rush TAT Due Date 5/15/2019 Time 8:00 AM Email emblackconsult@gmail.com Fax
---	---

Project Name/Number: Elisabeth Black **Project Location:** Spic 'n' Span

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 19 **Rush Samples** _____

Lab ID	Sample ID	Description	A/R
1	19051107	CB1-1	A
2	19051108	CB2-1	A
3	19051109	CT1-1	A
4	19051110	CT2-1	A
5	19051111	EXT1-1	A
6	19051112	GWB1-1	A
7	19051113	GWB1-2	A
8	19051114	GWB1-3	A
9	19051115	LF1-1	A
10	19051116	PE1-1	A
11	19051117	PI1-1	A
12	19051118	PI1-2	A
13	19051119	PI2-1	A
14	19051120	PI2-2	A
15	19051121	PE3-1	A
16	19051122	PI3-1	A
17	19051123	VFT1-1	A
18	19051124	VFT1-2	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Matthew McCallum		NVL	5/10/19	1605
Analyzed by	Alla Prysyzhnyuk		NVL	5/14/19	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions: rcvd @ aur on 5/14

Date: 5/14/2019
 Time: 1:34 PM
 Entered By: Emily Schubert

ASBESTOS LABORATORY SERVICES



Company EMB Consulting, LLC Address 22725 44th Ave W. #203 Mountlake Terrace, WA 98043 Project Manager Ms. Elisabeth Black Phone (206) 915-2395	NVL Batch Number 1909870.00 TAT 1 Day AH No Rush TAT Due Date 5/15/2019 Time 8:00 AM Email emblackconsult@gmail.com Fax
---	---

Project Name/Number: Elisabeth Black **Project Location:** Spic 'n' Span

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 19 **Rush Samples** _____

Lab ID	Sample ID	Description	A/R
19	19051125	VFT1-3	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				
Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Matthew McCallum		NVL	5/10/19	1605
Analyzed by	Alla Prysyazhnyuk		NVL	5/14/19	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions: rcvd @ aur on 5/14

Date: 5/14/2019
 Time: 1:34 PM
 Entered By: Emily Schubert

Section 1: Contact

Company Information

EMB Consulting, LLC (206) 915-2395
22725 44th Avenue West, #203
Mountlake Terrace WA 98043
United States

Project Manger Information

Elisabeth Black
emblackconsult@gmail.com
(206) 915-2395

Project Information

Name/#: Elisabeth Black
Location: Spic 'n Span

Section 2: Analysis

Sub Category

PLM Bulk

Method

EPA 600/R-93-116 Asbestos by PLM

Turn Around Time

2 Days

Reporting Instructions

Email emblackconsult@gmail.com

Client Sample Information

Sample ID	Description	A/R
CB1-1		
CB2-1		
CT1-1		
CT2-1		
EXT1-1		
GWB1-1		
GWB1-2		
GWB1-3		
LF1-1		
PE1-1		
PI1-1		
PI1-2		
PI2-1		
PI2-2		
PE3-1		
PI3-1		
VFT1-1		

VFT1-2

1909870

VFT1-3

	Print Name	Signature	Company	Date	Time
Sampled By	Elisabeth Black	<i>E. Black</i>	EMB Consulting, LLC	05/10/2019	03:00 pm
Relinquish By	Elisabeth Black	<i>E. Black</i>	EMB Consulting	05/10/2019	03:00 pm

Office Use Only

	Print Name	Signature	Company	Date	Time
Received By	<i>Matt McCallum</i>	<i>MM</i>	<i>NVL</i>	<i>5/10/19</i>	<i>1605</i>
Analyzed By					
Called By					
Faxed/Email By					

May 23, 2019



Elisabeth Black
EMB Consulting, LLC
22725 44th Ave W. #203
Mountlake Terrace, WA 98043

**RE: Bulk Asbestos Fiber Concentration by Point Count
NVL Batch # 1909932**

Client Project: Elisabeth Black
Location: Spic 'n' Span

Dear Ms. Black,

At your request, NVL Laboratories conducted analysis of your sample to determine the asbestos concentration using point count procedures.

The sample was analyzed for the presence of asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA method 600/R-93/116.

Eight slides of thoroughly homogenized material are prepared for any given sample that requires point counting. In order to be counted as a point, the crosshairs of the microscope must center on either a fiber or a particle. The analyst counts at least 50 points per slide preparation. A minimum of 400 non-empty points are counted, then the number of counted asbestos fibers are divided by the total number of points counted to arrive at the percentage of asbestos in the sample.

Please see the conclusion section of the lab reports for point count results.

It has been a pleasure to be of service to you. Please feel free to call if there is anything further we can assist you with.

Sincerely,

Matt Macfarlane, Asbestos Lab Supervisor



Enc.: Sample Results

Lab Code: 102063-0

**Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516**



PLM Point Count Bulk Asbestos Fibers Analysis

Client: EMB Consulting, LLC
Address: 22725 44th Ave W. #203
Mountlake Terrace, WA 98043
Attention: Ms. Elisabeth Black

Batch #: 1909932.00
Client Project #: Elisabeth Black
Date Received: 5/15/2019
Samples Received: 1
Samples Analyzed: 1
Method: EPA/600R-93/116

Project Location: Spic 'n' Span

Lab ID : 19051425 Client Sample #: GWB1-2 Layer 1

Sample Description: Analyzed layer 1 of 3: White compacted powdery material with layered paint.

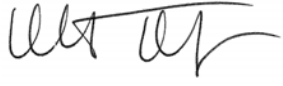
This sample was initially analyzed for Asbestos content using Polarized Light Microscopy (PLM).

Introduction: Asbestos fibers were observed and quantity was determined using calibrated visual area estimation. Asbestos content was originally found to be 2 % in Layer 1. Corresponding Lab ID 19051113

Prep Slide #	Asbestos Point	Non Asbestos Point	Total Points Counted
1	0	50	50
2	0	50	50
3	0	50	50
4	0	50	50
5	2	48	50
6	0	50	50
7	0	50	50
8	0	50	50
Total	2	398	400

Conclusion: This Sample Contains 0.5 % ASBESTOS

Comments: Chrysotile asbestos fibers observed in field of view

Sampled by: Client	
Analyzed by: Alla Prysyzhnyuk	Date: 05/16/2019
Reviewed by: Matt Macfarlane	Date: 05/23/2019  Matt Macfarlane, Asbestos Lab Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

ASBESTOS LABORATORY SERVICES



Company EMB Consulting, LLC Address 22725 44th Ave W. #203 Mountlake Terrace, WA 98043 Project Manager Ms. Elisabeth Black Phone (206) 915-2395	NVL Batch Number 1909932.00 TAT 5 Days AH No Rush TAT Due Date 5/22/2019 Time 10:20 AM Email emblackconsult@gmail.com Fax
---	---

Project Name/Number: Elisabeth Black **Project Location:** Spic 'n' Span

Subcategory PLM Bulk
Item Code ASB-03 EPA 600/R-93-116 Asbestos by PLM (400 points) <bulk>

Total Number of Samples 1 **Rush Samples** _____

Lab ID	Sample ID	Description	A/R
1	19051425	GWB1-2 Layer 1	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Emailed by Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	5/15/19	1020
Analyzed by	Alla Prsyazhnyuk		NVL	5/16/19	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions: Sample originally from batch 1909870

Date: 5/15/2019
 Time: 10:21 AM
 Entered By: Kelly AuVu

ASN 4

ASBESTOS WASTE SHIPMENT REPORT FORM



PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

Date: 8-30-19 WSC Job# A-7587

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: 652 S. Dearborn St Seattle WA King 98134
Street City/State County Zip

Contact person: SCOTT ST John Phone: 206-371-0020

2. Contractor/Operator's name and address: Walker Specialty Construction Phone: 425-806-7377
PO Box 469 Snohomish, WA Snohomish 98291
Street City/State County Zip

3. Waste disposal site: N Wasco County Landfill Phone: 541-296-4082
2550 Steele Road The Dalles, OR Wasco 97058
Street City/State County Zip

4. Describe asbestos materials: ACM Piping And Elbows

5. Containers: Number: 22 Type: 10 12 ml yellow

6. Total quantity (cubic yards): 3 yds 12 Double 6 ml wrap

7. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

Agent: JACK BUCKMAN Company: Walker Specialty Construction

Address: PO Box 469, Snohomish, WA 98291 Phone: 425-806-7377

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
Agent: _____ Company: D&B Trucking
Address: 1905 E. Lincoln Ave, Tacoma, WA 98421 Phone: 253-383-3860
Signature: _____ Date: _____

9. Transporter #2: (Acknowledgment of receipt of materials)
Agent: Billy Spencer / D&B Trucking Company: _____
Address: 1905 Lincoln Ave, Tacoma WA 98421 Phone: _____
Signature: _____ Date: _____

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: WASCO COUNTY LANDFILL
Name and Title: Linda Miller Date: SEP 04 2019
Signature: _____ Phone: 541-296-4082

11. DISCREPANCY SPACE: (Add attachments as needed)

ASN 4

ASBESTOS WASTE SHIPMENT REPORT FORM



PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

Date: 8-29-19 WSC Job# A-7587

WASTE GENERATOR: (Contractor, Facility, or Operator)

- 1. Asbestos removal site name and address: Spic-N-Span 652 S. Dearborn St. Seattle WA King 98134
2. Contractor/Operator's name and address: Walker Specialty Construction PO Box 469 Snohomish, WA Snohomish 98291
3. Waste disposal site: N Wasco County Landfill 2550 Steele Road The Dalles, OR Wasco 97058
4. Describe asbestos materials: ACM wrapped Piping and Elbows
5. Containers: Number: 26 Type: 12 ml yellow
6. Total quantity (cubic yards): 3 yds 6 ml Douse wrap
7. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations.

Agent: Scott Buchanan Company: Walker Specialty Construction
Address: PO Box 469, Snohomish, WA 98291 Phone: 425-806-7377

TRANSPORTER(S):

- 8. Transporter #1: D&B Trucking Agent: 1905 Lincoln Ave, Tacoma WA 98421 Company: D&B Trucking Address: 1905 E. Lincoln Ave Tacoma, WA 98421 Phone: 253-383-3860
9. Transporter #2: (Acknowledgment of receipt of materials) Agent: Company: Address: Phone: Signature: Date:

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below)

- 10. Waste Disposal Site: WASCO COUNTY LANDFILL Name and Title: Linda Miller Date: SEP 04 2019 Signature: [Signature] Phone: 541-296-4082

- 11. DISCREPANCY SPACE: (Add attachments as needed)

ASN 4

ASBESTOS WASTE SHIPMENT REPORT FORM



PLEASE PRINT OR TYPE If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

Date: 8-28-19 WSC Job# A-7587

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Spic-N-Span
ESS E. DEARBORN ST. SNOHOMISH WA. King 98134
Street City/State County Zip

Contact person: SCOTT ST. JOHN Phone: 206-327-0026

2. Contractor/Operator's name and address: Walker Specialty Construction Phone: 425-806-7377
PO Box 469 Snohomish, WA Snohomish 98291
Street City/State County Zip

3. Waste disposal site: N Wasco County Landfill Phone: 541-296-4082
2550 Steele Road The Dalles, OR Wasco 97058
Street City/State County Zip

4. Describe asbestos materials: ACM Pipe wrapping / Fittings
5. Containers: Number: 26 Type: 21 Pipes wrapped 12 ml
6. Total quantity (cubic yards): 3 yd 5 yellow 12 ml

7. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

Agent: JACK Buchanan Company: Walker Specialty Construction

Address: PO Box 469, Snohomish, WA 98291 Phone: 425-806-7377

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
Agent: Company: D&B Trucking
Address: 1905 E. Lincoln Ave, Tacoma, WA 98421 Phone: 253-383-3860
Signature: Date:

9. Transporter #2: (Acknowledgment of receipt of materials)
Agent: Billy Spencer / D&B Trucking Company:
Address: 1905 Lincoln Ave, Tacoma WA 98421 Phone:
Signature: Date:

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: WASCO COUNTY LANDFILL
Name and Title: Linda Miller Date: SEP 04 2019
Signature: Linda Miller Phone: 541-296-4082

11. DISCREPANCY SPACE: (Add attachments as needed)

ASN 4

ASBESTOS WASTE SHIPMENT REPORT FORM



PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

Date: 8-27-19 WSC Job# A-7587

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Spic-N-Span
652 DEARBORN ST Seattle WA King 98134

Contact person: Scott St John Phone: 206-327-0026

2. Contractor/Operator's name and address: Walker Specialty Construction Phone: 425-806-7377
PO Box 469 Snohomish, WA Snohomish 98291

3. Waste disposal site: N Wasco County Landfill Phone: 541-296-4082
2550 Steele Road The Dalles, OR Wasco 97058

4. Describe asbestos materials: Black Mastic And ACM Pipe Wraps

5. Containers: Number: 3 Type: 1 55 gal Drum

6. Total quantity (cubic yards): 1 yd (2) Pipe Wraps, 13 Linear Ft.

7. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

Agent: Jack Buchanan Company: Walker Specialty Construction

Address: PO Box 469, Snohomish, WA 98291 Phone: 425-806-7377

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
Agent: Company: D&B Trucking
Address: 1905 E. Lincoln Ave, Tacoma, WA 98421 Phone: 253-383-3860
Signature: Date:

9. Transporter #2: (Acknowledgment of receipt of materials)
Agent: Billy Spencer, D&B Trucking Company:
Address: 1905 Lincoln Ave, Tacoma WA 98421 Phone:
Signature: Date:

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below)

10. Waste Disposal Site: WASCO COUNTY LANDFILL
Name and Title: Linda Miller Date: SEP 04 2019
Signature: Phone: 541-296-4082

11. DISCREPANCY SPACE: (Add attachments as needed)

ASN 4

ASBESTOS WASTE SHIPMENT REPORT FORM



PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

Date: 8-26-19 WSC Job# A-7587

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: SPIC-D-SPAN
652 S. DEARBORN ST SEAHK WA King 98134
Street City/State County Zip

Contact person: SCOTT ST. JOHN Phone: 206-327-0026

2. Contractor/Operator's name and address: Walker Specialty Construction Phone: 425-806-7377
PO Box 469 Snohomish, WA Snohomish 98291
Street City/State County Zip

3. Waste disposal site: N Wasco County Landfill Phone: 541-296-4082
2550 Steele Road The Dalles, OR Wasco 97058
Street City/State County Zip

4. Describe asbestos materials: VAT And BLACK MPTIC

5. Containers: Number: 3 Type: 1-55 gal DRUM

6. Total quantity (cubic yards): 1 yd 2-12 ML YELLOW

7. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

Agent: JACK BUCHANAN Company: Walker Specialty Construction

Address: PO Box 469, Snohomish, WA 98291 Phone: 425-806-7377

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
Agent: _____ Company: D&B Trucking
Address: 1905 E. Lincoln Ave, Tacoma, WA 98421 Phone: 253-383-3860
Signature: _____ Date: _____

9. Transporter #2: (Acknowledgment of receipt of materials)
Agent: 1905 Lincoln Ave, Tacoma WA 98421 Company: _____
Address: [Signature] Phone: _____
Signature: _____ Date: _____

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: WASCO COUNTY LANDFILL
Name and Title: Linda Miller Date: SEP 04 2019
Signature: [Signature] Phone: 541-296-4082

11. DISCREPANCY SPACE: (Add attachments as needed)

APPENDIX C

Boring Logs

Coarse-Grained Soils - More than 50% ¹ Retained on No. 200 Sieve	Gravels - More than 50% ¹ of Coarse Fraction Retained on No. 4 Sieve	≤5% Fines	GW	Well-graded GRAVEL Well-graded GRAVEL WITH SAND
		≥15% Fines	GP	Poorly-graded GRAVEL Poorly-graded GRAVEL WITH SAND
	Sands - 50% ¹ or More of Coarse Fraction Passes No. 4 Sieve	≤5% Fines	GM	SILTY GRAVEL SILTY GRAVEL WITH SAND
		≥15% Fines	GC	CLAYEY GRAVEL CLAYEY GRAVEL WITH SAND
Fine-Grained Soils - 50% ¹ or More Passes No. 200 Sieve	Sands - 50% ¹ or More of Coarse Fraction Passes No. 4 Sieve	≤5% Fines	SW	Well-graded SAND Well-graded SAND WITH GRAVEL
		≥15% Fines	SP	Poorly-graded SAND Poorly-graded SAND WITH GRAVEL
	Silt and Clays Liquid Limit Less than 50%	≤5% Fines	SM	SILTY SAND SILTY SAND WITH GRAVEL
		≥15% Fines	SC	CLAYEY SAND CLAYEY SAND WITH GRAVEL
Highly Organic Soils	Silt and Clays Liquid Limit 50% or More	ML	SILT SANDY or GRAVELLY SILT SILT WITH SAND SILT WITH GRAVEL	
		CL	LEAN CLAY SANDY or GRAVELLY LEAN CLAY LEAN CLAY WITH SAND LEAN CLAY WITH GRAVEL	
	Silt and Clays Liquid Limit 50% or More	OL	ORGANIC SILT SANDY or GRAVELLY ORGANIC SILT ORGANIC SILT WITH SAND ORGANIC SILT WITH GRAVEL	
		MH	ELASTIC SILT SANDY or GRAVELLY ELASTIC SILT ELASTIC SILT WITH SAND ELASTIC SILT WITH GRAVEL	
Silt and Clays Liquid Limit 50% or More	CH	FAT CLAY SANDY or GRAVELLY FAT CLAY FAT CLAY WITH SAND FAT CLAY WITH GRAVEL		
	OH	ORGANIC CLAY SANDY or GRAVELLY ORGANIC CLAY ORGANIC CLAY WITH SAND ORGANIC CLAY WITH GRAVEL		
Highly Organic Soils	PT	PEAT and other mostly organic soils		

"WITH SILT" or "WITH CLAY" means 5 to 15% silt and clay, denoted by a "-" in the group name; e.g., SP-SM • "SILTY" or "CLAYEY" means >15% silt and clay • "WITH SAND" or "WITH GRAVEL" means 15 to 30% sand and gravel. • "SANDY" or "GRAVELLY" means >30% sand and gravel. • "Well-graded" means approximately equal amounts of fine to coarse grain sizes • "Poorly graded" means unequal amounts of grain sizes • Group names separated by "/" means soil contains layers of the two soil types; e.g., SM/ML.

Soils were described and identified in the field in general accordance with the methods described in ASTM D2488. Where indicated in the log, soils were classified using ASTM D2487 or other laboratory tests as appropriate. Refer to the report accompanying these exploration logs for details.

1. Estimated or measured percentage by dry weight
2. (SPT) Standard Penetration Test (ASTM D1586)
3. Determined by SPT, DCPT (ASTM STP399) or other field methods. See report text for details.

MC	=	Natural Moisture Content	GEOTECHNICAL LAB TESTS
PS	=	Particle Size Distribution	
FC	=	Fines Content (% < 0.075 mm)	
GH	=	Hydrometer Test	
AL	=	Atterberg Limits	
C	=	Consolidation Test	
Str	=	Strength Test	
OC	=	Organic Content (% Loss by Ignition)	
Comp	=	Proctor Test	
K	=	Hydraulic Conductivity Test	
SG	=	Specific Gravity Test	

Organic Chemicals			CHEMICAL LAB TESTS
BTEX	=	Benzene, Toluene, Ethylbenzene, Xylenes	
TPH-Dx	=	Diesel and Oil-Range Petroleum Hydrocarbons	
TPH-G	=	Gasoline-Range Petroleum Hydrocarbons	
VOCs	=	Volatile Organic Compounds	
SVOCs	=	Semi-Volatile Organic Compounds	
PAHs	=	Polycyclic Aromatic Hydrocarbon Compounds	
PCBs	=	Polychlorinated Biphenyls	
Metals			
RCRA8	=	As, Ba, Cd, Cr, Pb, Hg, Se, Ag, (d = dissolved, t = total)	
MTCA5	=	As, Cd, Cr, Hg, Pb (d = dissolved, t = total)	
PP-13	=	Ag, As, Be, Cd, Cr, Cu, Hg, Ni, Pb, Sb, Se, Tl, Zn (d=dissolved, t=total)	

PID	=	Photoionization Detector	FIELD TESTS
Sheen	=	Oil Sheen Test	
SPT ²	=	Standard Penetration Test	
NSPT	=	Non-Standard Penetration Test	
DCPT	=	Dynamic Cone Penetration Test	

Descriptive Term	Size Range and Sieve Number	COMPONENT DEFINITIONS
Boulders	= Larger than 12 inches	
Cobbles	= 3 inches to 12 inches	
Coarse Gravel	= 3 inches to 3/4 inches	
Fine Gravel	= 3/4 inches to No. 4 (4.75 mm)	
Coarse Sand	= No. 4 (4.75 mm) to No. 10 (2.00 mm)	
Medium Sand	= No. 10 (2.00 mm) to No. 40 (0.425 mm)	
Fine Sand	= No. 40 (0.425 mm) to No. 200 (0.075 mm)	
Silt and Clay	= Smaller than No. 200 (0.075 mm)	

% by Weight	Modifier	% by Weight	Modifier	ESTIMATED¹ PERCENTAGE	
<1	=	Subtrace	15 to 25 =		Little
1 to <5	=	Trace	30 to 45 =		Some
5 to 10	=	Few	>50 =		Mostly

Dry	=	Absence of moisture, dusty, dry to the touch	MOISTURE CONTENT
Slightly Moist	=	Perceptible moisture	
Moist	=	Damp but no visible water	
Very Moist	=	Water visible but not free draining	
Wet	=	Visible free water, usually from below water table	

Non-Cohesive or Coarse-Grained Soils		RELATIVE DENSITY
Density³	SPT² Blows/Foot	
Very Loose	= 0 to 4	≥ 2'
Loose	= 5 to 10	1' to 2'
Medium Dense	= 11 to 30	3" to 1'
Dense	= 31 to 50	1" to 3"
Very Dense	= > 50	< 1"

Cohesive or Fine-Grained Soils		CONSISTENCY
Consistency³	SPT² Blows/Foot	
Very Soft	= 0 to 1	Penetrated >1" easily by thumb. Extrudes between thumb & fingers.
Soft	= 2 to 4	Penetrated 1/4" to 1" easily by thumb. Easily molded.
Medium Stiff	= 5 to 8	Penetrated >1/4" with effort by thumb. Molded with strong pressure.
Stiff	= 9 to 15	Indented ~1/4" with effort by thumb.
Very Stiff	= 16 to 30	Indented easily by thumbnail.
Hard	= > 30	Indented with difficulty by thumbnail.

GEOLOGIC CONTACTS		
Observed and Distinct	Observed and Gradual	Inferred

	<h2>Exploration Log Key</h2>
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Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272464.00 N:221101.00 (est)

B3

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

51' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

8/30/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable					ASPHALT; with base course	
		#3 Sand			PID=11.3 Sheen=None		SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; 10% fines, fine to medium sand, 20% fine to course gravel, no odor SILTY SAND (SM); slightly moist, gray-brown; 15% fines, fine to medium sand, 10% fine to course gravel, brick and concrete debris present, no odor	5
5		Conductive backfill with electrode element						
45								
10					PID=7.1 Sheen=None		SANDY SILT WITH GRAVEL (ML); slightly moist, gray-brown; 25% fine to medium sand, 15% fine to course gravel, brick and concrete debris present, no odor	10
40								
15					PID=5.5 Sheen=None		SILTY CLAY (CL-ML); very moist, gray; 20% fine to medium sand, trace fine gravel, no odor	15
35								
20					PID=2.0 Sheen=None		SILTY SAND (SM); wet brown; 20% fines, fine to medium sand, trace fine gravel, no odor	20
30								
25					PID=1.0 Sheen=None		SANDY SILT (ML); wet, brown; 30% fine to medium sand, 10% fine gravel, no odor	25
25								
							Bottom of exploration at 28 ft. bgs.	
30								30

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log B3

Sheet 1 of 1



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272480.00 N:221101.00 (est)

B4

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

8/29/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	Neat cement grout with power supply cable #3 Sand Conductive backfill with electrode element			PID=5.0 Sheen=None	ASPHALT; with base course		5
					PID=4.7 Sheen=None	SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; 10% fines, fine to medium sand, 15% fine to course gravel, no odor		
					PID=3.8 Sheen=None	SANDY SILT (ML); moist, gray-brown; 30% fine to medium sand, 10% gravel, brick debris present, no odor		
					PID=2.3 Sheen=None	SILT WITH SAND (ML); very moist, brown; 20% fine to medium sand, trace gravel, no odor		
					PID=1.8 Sheen=None	SILTY SAND (SM); wet, brown; 25% fines, fine to medium sand, trace fine gravel, no odor		
					PID=0.8 Sheen=None	SANDY SILT (ML); wet, brown; 30% sand, trace fine gravel, no odor		
							Bottom of exploration at 28 ft. bgs.	
30	20							30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log B4

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272495.00 N:221101.00 (est)

B5

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

8/29/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Neat cement grout with power supply cable					ASPHALT; with base course	
		#3 Sand					SAND WITH GRAVEL (SP); slightly moist, brown; >10% fines, fine to medium sand, 20% fine to coarse gravel, petroleum-like odor	
5	45	Conductive backfill with electrode element			PID=11.6 Sheen=None		SANDY SILT (ML); slightly moist, gray-brown; 30% fine to medium sand, 10% gravel, brick and concrete debris present, no odor	5
10	40				PID=7.4 Sheen=None			10
15	35				PID=5.6 Sheen=None			15
20	30				PID=2.7 Sheen=None		SILTY SAND WITH GRAVEL (SM); very moist, brown; 20% fines, fine to medium sand, 20% fine gravel	20
25	25				PID=1.3 Sheen=None			25
							Bottom of exploration at 28 ft. bgs.	
30	20							30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log B5



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272456.00 N:221087.00 (est)

C3

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

8/29/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Neat cement grout with power supply cable					ASPHALT; with base course	
		#3 Sand					SAND WITH GRAVEL (SP); slightly moist, brown; 10% fines, fine to medium sand, 20% gravel, no odor	
5	45	Conductive backfill with electrode element			PID=11.2 Sheen=None		SANDY SILT (ML); slightly moist, gray-brown; 25% fine to medium sand, 10% fine gravel, brick and concrete debris present, no odor	5
10	40				PID=8.6 Sheen=None		SILTY CLAY (CL-ML); moist, gray; 20% fine to medium sand, trace gravel, no odor	10
15	35				PID=2.0 Sheen=None		SANDY SILT WITH GRAVEL (ML); wet, brown; 25% fine to medium sand, 15% fine gravel, no odor	20
20	30				PID=1.7 Sheen=None			25
25	25							28
							Bottom of exploration at 28 ft. bgs.	
30	20							30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log C3

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272471.00 N: 221087.00 (est)

C4

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

8/29/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	Neat cement grout with power supply cable #3 Sand Conductive backfill with electrode element			PID=11.4 Sheen=None	ASPHALT; with base course SAND WITH GRAVEL (SP); slightly moist, brown; >5% fines, fine to medium sand, 20% fine to coarse gravel, no odor SANDY SILT WITH GRAVEL (ML); slightly moist, gray-brown; 30% fine to medium, trace coarse sand, 15% fine gravel, no odor	5	
10	40				PID=7.3 Sheen=None	SILTY CLAY (CL-ML); moist, gray; 20% fine to medium sand, trace gravel, no odor	10	
15	35				PID=1.8 Sheen=None	SANDY SILT (ML); wet, brown; 25% fine to medium sand, 10% fine gravel, no odor	15	
20	30				PID=0.8 Sheen=None		20	
25	25						25	
30	20						30	
							Bottom of exploration at 28 ft. bgs.	

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log C4

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272487.00 N:221087.00 (est)

C5

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

8/28/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	Neat cement grout with power supply cable #3 Sand Conductive backfill with electrode element			PID=1.6 Sheen=None	ASPHALT; with base course SAND WITH GRAVEL (SP); slightly moist, brown; >5% fines, fine to medium sand, 15% fine to course gravel, no odor SANDY SILT (ML); slightly moist to moist, gray-brown; 30% fine to medium, with trace coarse sand, 10 - 15% fine to course gravel, brick and concrete debris present, no odor	5	
10	40				PID=5.4 Sheen=None		10	
15	35				PID=0.5 Sheen=None	SILTY SAND (SM); wet, brown; 20% fines, fine to medium sand, trace gravel, no odor	15	
20	30				PID=0.6 Sheen=None	SANDY SILT (ML); wet, light brown; 30% fine to medium sand, 10% gravel, no odor	20	
25	25						25	
30	20						Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log C5

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272503.00 N: 221087.00 (est)

C6

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

8/28/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	Neat cement grout with power supply cable #3 Sand Conductive backfill with electrode element			PID=4.8 Sheen=None	ASPHALT; with base course SAND (SP); slightly moist, brown to gray-brown; <5% fines, fine to medium sand, trace gravel, no odor SANDY SILT (ML); slightly moist, gray-brown 20% fine to medium (trace course) sand, trace fine gravel, brick and concrete debris present, no odor	5	
10	40				PID=6.4 Sheen=None		10	
15	35				PID=10.0 Sheen=None	SILTY CLAY (CL-ML); moist, gray; 20% fine to medium sand, trace gravel, no odor	15	
20	30				PID=2.4 Sheen=None	SANDY SILT (ML); very moist, brown; 20% fine to medium sand, 10% gravel, no odor	20	
25	25					SILTY SAND (SM); wet, brown; 15% fines, fine to medium sand, 10% fine gravel, no odor SANDY SILT (ML); wet, brown; 25% fine to medium sand, no odor	25	
30	20					Bottom of exploration at 28 ft. bgs.	30	

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log C6

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272463.00 N: 221074.00 (est)

D4

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

51' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

8/27/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable					ASPHALT; with base course	
		#3 Sand			PID=7.6 Sheen=None		SAND (SP); slightly moist, brown; >5% fines, fine to medium sand, trace fine gravel, no odor	
5							SILTY SAND WITH GRAVEL (SM); slightly moist, gray-brown; 20% fines, fine to medium sand, 15% fine gravel, brick debris present, no odor	5
45		Conductive backfill with electrode element			PID=16.3 Sheen=None		SILTY SAND (SM); moist, gray; 20% fines, fine to medium sand, 10% fine to coarse gravel, brick debris present, no odor	
10								10
40					PID=9.8 Sheen=None		SILTY CLAY (CL-ML); very moist, gray; trace sand and gravel, no odor	
15								15
35					PID=10.2 Sheen=None			
20					PID=9.6 Sheen=None		SILTY SAND (SM); wet, brown; 25% fines, fine to medium sand, 10% fine gravel, no odor	20
30					PID=10.2 Sheen=None			
25					PID=7.6 Sheen=None			25
25								
							Bottom of exploration at 28 ft. bgs.	
30								30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log D4

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272479.00 N:221074.00 (est)

D5

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

8/27/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	Neat cement grout with power supply cable			PID=24.3 Sheen=None		ASPHALT; with base course	5
		#3 Sand			PID=17.5 Sheen=None		SAND (SP); slightly moist, brown; <5% fines, fine to medium sand, 10% fine gravel, no odor	
		Conductive backfill with electrode element			PID=11.4 Sheen=None		SANDY SILT (ML); slightly moist, gray; 20% fine to medium sand, 15% fine gravel, brick and concrete debris present, no odor	
10	40				PID=16.7 Sheen=None		SILTY CLAY (CL-ML); moist, gray; trace fine to medium sand, trace gravel, no odor	10
15	35				PID=12.3 Sheen=None			15
20	30				PID=2.6 Sheen=None		SILTY SAND WITH GRAVEL (SM); very moist, brown; 20% fines, fine to coarse sand, 15% fine gravel, no odor	20
25	25				PID=1.7 Sheen=None		SANDY SILT WITH GRAVEL (ML); wet, brown; 30% fine to medium sand, 15% fine gravel, no odor	25
30	20						Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log D5

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272495.00 N:221074.00 (est)

D6

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

8/27/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	Neat cement grout with power supply cable #3 Sand Conductive backfill with electrode element			PID=5.5 Sheen=None PID=2.1 Sheen=None	ASPHALT; with base course SAND (SW); slightly moist, brown; <5% fines, fine to medium sand, no odor SANDY SILT WITH GRAVEL (ML); moist, gray; 20% fine to course sand, 20% fine to course gravel, brick and concrete debris present, no odor	5	
10	40				PID=58.1 Sheen=None	SILTY SAND (SM); moist, gray; 15% fines, fine to medium sand, 10% fine gravel, slight chemical odor	10	
15	35				PID=12.3 Sheen=None	SILTY CLAY (CL-ML); very moist, gray to dark brown; trace fine to course sand, trace fine gravel, no odor	15	
20	30				PID=34.0 Sheen=None	SILTY SAND (SM); wet, brown; 25% fines, fine to course sand, 10% fine gravel, no odor	20	
25	25				PID=1.8 Sheen=None PID=1.7 Sheen=None		25	
30	20					Bottom of exploration at 28 ft. bgs.	30	

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log D6

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272511.00 N: 221073.00 (est)

D7

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

51' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

8/23/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable					ASPHALT; with base course	
		#3 Sand			PID=30.1 Sheen=None		SAND WITH GRAVEL (SP); slightly moist, brown 10% fines, fine to medium sand, 15% fine gravel, no odor	
5		Conductive backfill with electrode element			PID=15.6 Sheen=None		SANDY SILT (ML); slightly moist to very moist, gray-brown; 20% fine to medium sand, trace fine gravel, concrete and brick debris present @ 2.5 ft. bgs, no odor	5
45					PID=17.3 Sheen=None			
10					PID=9.0 Sheen=None			10
40					PID=4.1 Sheen=None			
15					PID=2.7 Sheen=None		SILTY SAND WITH GRAVEL (SM); wet, brown; 15% fines, fine to medium sand, 15% fine to coarse gravel, no odor	15
35								
20								20
30								
25								25
25								
							Bottom of exploration at 28 ft. bgs.	
30								30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log D7

Sheet 1 of 1



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272456.00 N:221061.00 (est)

E4

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

8/23/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	Neat cement grout with power supply cable			PID=28.1 Sheen=None	ASPHALT; with base course		5
		#3 Sand				SILT WITH SAND (ML); slightly moist, gray; 20% fine to medium sand, 15% fine gravel, brick and concrete debris present, no odor		
		Conductive backfill with electrode element						
10	40							10
15	35				PID=17.5 Sheen=None	SILTY CLAY (CL-ML); moist, gray; trace fine to medium sand, no odor		15
20	30					SILT WITH SAND (ML); very moist, brown; 20% fine to medium sand, trace gravel, no odor		20
25	25				PID=1.5 Sheen=None	SILTY SAND (SM); wet, brown; 30% fines, fine to medium sand, trace gravel, no odor		25
30	20					Bottom of exploration at 28 ft. bgs.		30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log E4

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272471.00 N:221060.00 (est)

E5

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

51' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

8/22/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable				ASPHALT	ASPHALT; with base course	
		#3 Sand			PID=15.1 Sheen=None		SILTY SAND WITH GRAVEL (SM); slightly moist, brown; 20% fines, fine to medium sand, 15% fine to coarse gravel, no odor	
5					PID=10.2 Sheen=None		SILT WITH SAND (ML); slightly moist, gray; 20% fine to medium sand, 10% fine to coarse gravel, brick debris present, no odor	5
45		Conductive backfill with electrode element						
10					PID=20 Sheen=None			10
40					PID=14 Sheen=None		CLAY (CL); moist, gray; trace fine to medium sand, some organics debris present, no odor	15
15								15
35					PID=13.7 Sheen=None			20
20								20
30					PID=4.4 Sheen=None		SILT WITH SAND (ML); very moist to wet, gray-brown to brown; 15% fine to medium sand, 10% fine gravel	25
25								25
25					PID=2.8 Sheen=None			25
							Bottom of exploration at 28 ft. bgs.	30
30								30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log E5

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location
652 S Dear Born St., Seattle, WA

Coordinates (SPN NAD83 ft)
E: 1272487.00 N: 221060.00 (est)

Exploration Number

E6

Contractor
Holt Services Inc

Equipment
CME-85

Sampling Method
Grab

Ground Surface Elev. (NAVD88)
51' (est)

Operator
John Bennett

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates
8/22/2019

Top of Casing Elev. (NAVD88)
NA

Depth to Water (Below GS)
No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable			PID=0.5 Sheen=None		ASPHALT; with base course	
		#3 Sand					SAND WITH SILT (SP-SM); slightly moist, gray brown; fine to medium sand, trace fine gravel, no odor	
5					PID=14 Sheen=None		SILT WITH SAND (ML); moist, gray brown; fine sand, trace fine gravel, trace brick debris, no odor	5
45		Conductive backfill with electrode element			PID=8.3 Sheen=None			
10					PID=24.7 Sheen=None		SILTY CLAY (CL-ML); moist, gray brown; trace fine sand, fine gravel, no odor	10
40					PID=19.2 Sheen=None		CLAY (CL); very moist, gray blue; trace fine to coarse sand, trace gravel, no odor	15
15					PID=11.2 Sheen=None		SILT WITH SAND (ML); very moist, gray; fine to medium sand, gravel, no odor	20
35					PID=4.0 Sheen=None		SAND WITH SILT (SP-SM); wet, brown; fine to medium sand, trace gravel, no odor	25
20					PID=3.1 Sheen=None			
30					PID=1.1 Sheen=None			
25							Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log E6

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272501.00 N:221060.00 (est)

E7

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

51' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

8/21/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable			PID=0.0 Sheen=None		ASPHALT; with base course	
		#3 Sand					SAND WITH SILT (SP-SM); slightly moist, brown; fine to medium sand, fine to coarse gravel, trace concrete and brick debris, no odor	
5					PID=0.2 Sheen=None			5
45		Conductive backfill with electrode element						
10					PID=0.9 Sheen=None		SILT WITH SAND (ML); moist, brown; fine sand, trace fine gravel, concrete debris, no odor	10
40								
15					PID=0.0 Sheen=None			15
35								
20					PID=0.0 Sheen=None		SAND WITH SILT (SP-SM); very moist, gray brown; fine to medium sand, trace gravel, trace concrete debris, no odor	20
30					PID=0.0 Sheen=None			
25					PID=0.0 Sheen=None		SILT WITH SAND (ML); wet, gray brown; fine sand, trace fine gravel, no odor	25
25					PID=0.0 Sheen=None			
					PID=0.0 Sheen=None			
							Bottom of exploration at 28 ft. bgs.	
30								30

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log E7

Sheet 1 of 1



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272515.00 N:221059.00 (est)

E8

Contractor
Holt Services Inc

Equipment
CME-85

Sampling Method
Grab

Ground Surface Elev. (NAVD88)
51' (est)

Operator
John Bennett

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates
8/20/2019

Top of Casing Elev. (NAVD88)
NA

Depth to Water (Below GS)
No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable			PID=0.0 Sheen=None	ASPHALT; with basecourse		
		#3 Sand			PID=0.0 Sheen=None	SILTY SAND (SM); slightly moist, brown; fine to medium sand, trace fine to course gravel, no odor		
5		Conductive backfill with electrode element			PID=0.0 Sheen=None	SAND (SP); slightly moist, brown; fine to medium sand, trace fine gravel, brick fragments, no odor		5
45					PID=0.0 Sheen=None			
10					PID=0.0 Sheen=None			10
40					PID=0.0 Sheen=None	SILT WITH SAND (ML); slightly moist, brown; fine to medium sand, fine to course gravel, no odor		
15					PID=0.0 Sheen=None	SILT (ML); moist, dark gray; trace fine to medium sand, trace gravel, some organics interbedded, no odor		15
35					PID=0.0 Sheen=None			
20					PID=0.0 Sheen=None	SILT WITH SAND (ML); very moist, brown; fine to medium sand, trace fine to course gravel, no odor		20
30					PID=0.0 Sheen=None			
25								25
25								
							Bottom of exploration at 28 ft. bgs.	
30								30

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log E8

Sheet 1 of 1



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272430.00 N:221046.00 (est)

F3

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME 850X track mounted

Grab

51' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Dustin Smith

11/12/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable				ASPHALT; with base course		
		#3 Sand			PID=4.7 Sheen=None	SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; <10% fines, fine to medium sand, 20% fine gravel, no odor		
5		Conductive backfill with electrode element				SANDY SILT (ML); slightly moist, gray brown; 25% fine to medium sand, trace gravel, brick debris present, no odor		5
45								
10								
40								
15					PID=11.6 Sheen=None	SILTY CLAY (CL-ML); moist, gray; trace fine sand, some roots present, no odor		15
35								
20					PID=5.2 Sheen=None			
30								
25					PID=4.3 Sheen=None			
25								
					PID=4.6 Sheen=None			
							Bottom of exploration at 28 ft. bgs.	
30								30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log F3

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272446.00 N: 221046.00 (est)

F4

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME 850X track mounted

Grab

52' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Dustin Smith

10/3/2019 to 10/4/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable #3 Sand					CONCRETE; with base course	
5		Conductive backfill with electrode element			PID=147 Sheen=None		SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; <10% fines, fine to medium sand, 20% fine to coarse, subangular, gravel, no odor	5
45							SANDY SILT (ML); slightly moist, gray-brown; 25% fine to medium sand, 10% fine gravel, no odor	
10								10
40								
15								15
35					PID=54 Sheen=None		CLAY (CL); moist, gray; with trace silt and sand	
20							No Recovery	20
30								
25								25
25								
30							Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log F4

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272463.00 N:221046.00 (est)

F5

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME 850X track mounted

Grab

51' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Dustin Smith

10/14/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable #3 Sand					CONCRETE; with base course	
5		Conductive backfill with electrode element			PID=3.5 Sheen=None		SAND WITH GRAVEL (SW); slightly moist, brown; <10% fines, fine to medium sand, 15% fine to coarse gravel, no odor	5
45					PID=6.5 Sheen=None			
10					PID=9.7 Sheen=None			10
40								
15					PID=3.1 Sheen=None		SILTY CLAY (CL-ML); moist to very moist, gray-brown; 20% - 30% fine to medium sand, no odor	15
35								
20					PID=2.5 Sheen=None			20
30								
25					PID=1.7 Sheen=None		SILTY SAND (SM); wet, brown; 20% fines, fine to medium sand, no odor	25
25								
30							Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log F5

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272476.00 N: 221046.00 (est)

F6

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME 850X track mounted

Grab

51' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Dustin Smith

10/14/2019 to 10/15/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable #3 Sand				CONCRETE; with base course		
5		Conductive backfill with electrode element			PID=32.7 Sheen=None	SAND WITH SILT (SW-SM); slightly moist, brown; 10% fines, fine to medium sand, no odor		5
45					PID=28.1 Sheen=None			
10					PID=12.7 Sheen=None			10
40								
15					PID=10.7 Sheen=None	SILTY CLAY (CL-ML); moist, light gray; 15% fine sand, no odor		15
35								
20					PID=1.9 Sheen=None			20
30								
25								25
25					PID=0 Sheen=None			
30							Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log F6

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272494.00 N: 221046.00 (est)

F7

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME 850X track mounted

Grab

51' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Dustin Smith

10/15/2019 to 10/16/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable #3 Sand					CONCRETE; with base course	
							SAND WITH SILT AND GRAVEL (SW-SM); slightly moist, brown; <10% fines, fine to medium sand, 15% fine to coarse gravel, no odor	
5		Conductive backfill with electrode element			PID=24 Sheen=None		SANDY SILT (ML); slightly moist to moist, gray-brown; 20% fine to medium sand, 10% fine gravel, no odor	5
45								
10					PID=16 Sheen=None			10
40								
15								15
35								
20					PID=4 Sheen=None			20
30					PID=0.9 Sheen=None			20
25								25
25					PID=1.4 Sheen=None			25
							Bottom of exploration at 28 ft. bgs.	
30								30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log F7

Sheet 1 of 1



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272510.00 N: 221046.00 (est)

F8

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME 850X track mounted

Grab

51' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Dustin Smith

11/18/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable #3 Sand					CONCRETE; with base course	
5		Conductive backfill with electrode element					SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; 10% fines, fine to medium sand, 25% fine gravel, no odor	5
45					PID=16.3 Sheen=None		SANDY SILT (ML); slightly moist, gray brown; 20% fine to medium sand, trace gravel, no odor	
10					PID=8.4 Sheen=None			10
40								
15								15
35					PID=1.8 Sheen=None		SILTY CLAY (CL-ML); moist, gray; trace fine sand, wood debris present, no odor	
20								20
30								25
25					PID=2.0 Sheen=None			25
25							Bottom of exploration at 28 ft. bgs.	
30								30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log F8

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272405.00 N:221032.00 (est)

G2

Contractor
Holt Services Inc

Equipment
CME-85

Sampling Method
Grab

Ground Surface Elev. (NAVD88)
50' (est)

Operator
John Bennett

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates
10/18/2019

Top of Casing Elev. (NAVD88)
NA

Depth to Water (Below GS)
No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	Neat cement grout with power supply cable #3 Sand Conductive backfill with electrode element			PID=0.3 Sheen=None	CONCRETE; with base course	SAND WITH SILT AND GRAVEL (SW-SM); slightly moist, brown; <10% fines, fine to medium sand, 10% fine to coarse gravel, no odor SILTY CLAY (CL-ML); moist, brown; 15% fine sand, no odor	5
10	40				PID=1.7 Sheen=None	SILT WITH SAND (ML); moist, gray-brown; 15% fine to medium sand, brick debris and roots present, no odor		10
15	35							15
20	30				PID=0 Sheen=None	SILTY CLAY (CL-ML); very moist to wet, gray; 15% fine sand, no odor		20
25	25				PID=0 Sheen=None			25
30	20						Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log G2

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272422.00 N: 221032.00 (est)

G3

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

10/31/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Neat cement grout with power supply cable			PID=0 Sheen=None		ASPHALT; with base course	
		#3 Sand			PID=0 Sheen=None		SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; 10% fines, fine to medium sand, 15% fine gravel, no odor	
5	45	Conductive backfill with electrode element			PID=0 Sheen=None		SANDY SILT (ML); slightly moist, brown; 20% fine to medium sand, 10% fine gravel, brick debris and roots present, no odor	5
10	40				PID=0 Sheen=None			10
15	35				PID=0 Sheen=None		SILTY CLAY (CL-ML); moist, gray; trace fine sand, brick debris present, no odor	15
20	30				PID=0 Sheen=None			20
25	25				PID=0 Sheen=None			25
							Bottom of exploration at 28 ft. bgs.	
30	20							30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log G3

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272438.00 N: 221032.00 (est)

G4

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME 850X track mounted

Grab

52' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

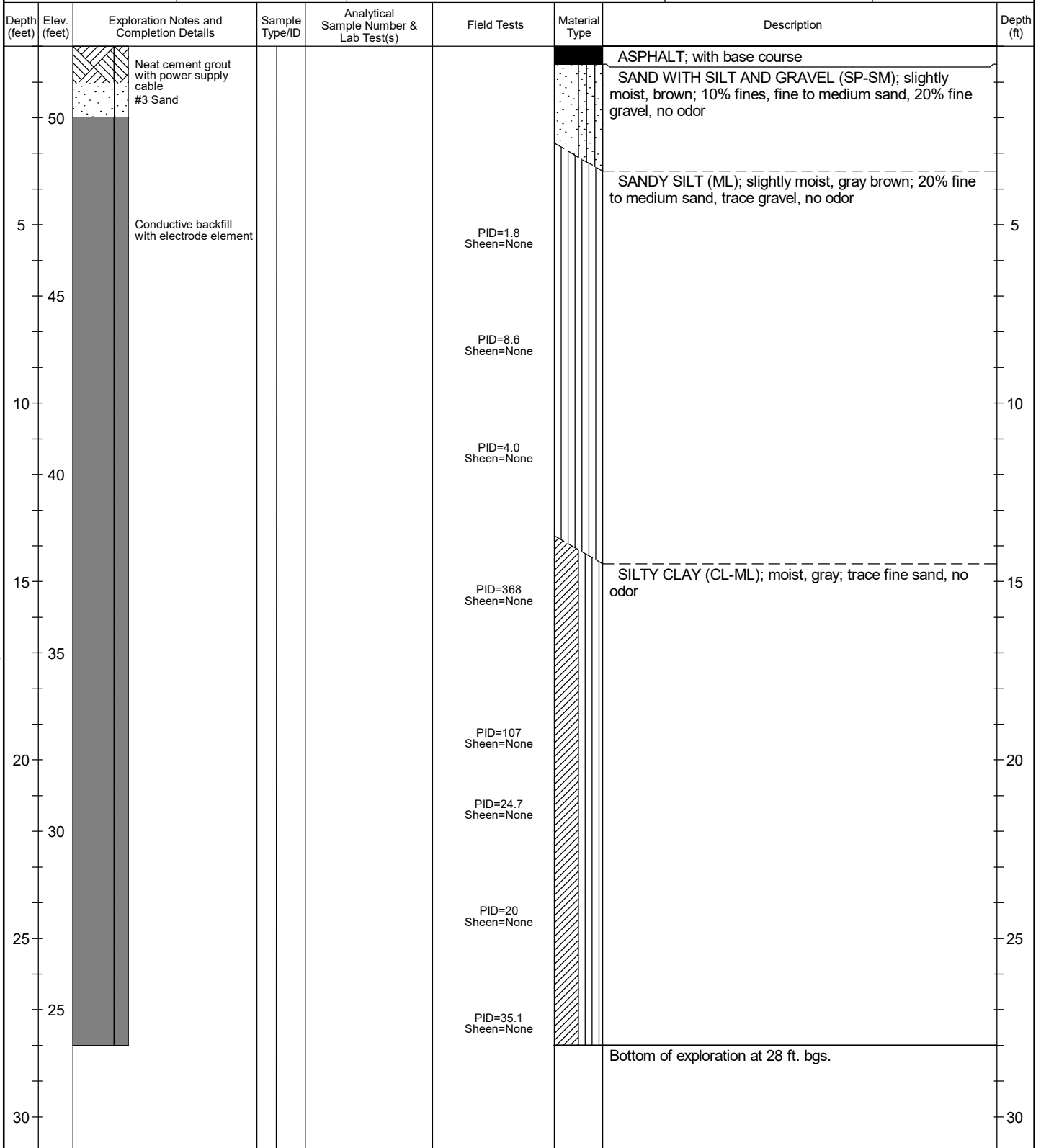
Depth to Water (Below GS)

Dustin Smith

11/11/2019

NA

No Water Encountered



Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log G4

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location
652 S Dear Born St., Seattle, WA

Coordinates (SPN NAD83 ft)
E:1272470.00 N:221032.00 (est)

Exploration Number

G6

Contractor
Holt Services Inc

Equipment
CME 850X track mounted

Sampling Method
Grab

Ground Surface Elev. (NAVD88)
51' (est)

Operator
Dustin Smith

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates
11/19/2019 to 11/20/2019

Top of Casing Elev. (NAVD88)
NA

Depth to Water (Below GS)
No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable #3 Sand			PID=2.1 Sheen=None		ASPHALT; with base course	
5		Conductive backfill with electrode element			PID=5.2 Sheen=None		SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; 5% fines, fine to medium sand, 30% fine to course gravel, no odor	5
45					PID=7.7 Sheen=None		SANDY SILT (ML); slightly moist, gray brown; 20% fine sand, trace gravel, no odor	
10					PID=2.5 Sheen=None		SILTY CLAY (CL-ML); moist, gray; trace fine sand, no odor	10
40								15
15								35
35								20
20								30
30								25
25								25
25								25
30							Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log G6

Sheet 1 of 1



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272414.00 N:221018.00 (est)

H3

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

11/18/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	Neat cement grout with power supply cable					ASPHALT; with base course	5
		#3 Sand			PID=9.7 Sheen=None		SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; 10% fines, fine to medium sand, 25% fine gravel, no odor	
		Conductive backfill with electrode element			PID=8.9 Sheen=None		SANDY SILT (ML); slightly moist, gray brown; 25% fine to medium sand, trace gravel, brick debris present, no odor	
15	35				PID=49.1 Sheen=None		SILTY CLAY (CL-ML); moist, gray; trace fine sand, brick debris and roots present, no odor	15
25	25				PID=790 Sheen=None PID=687 Sheen=None PID=520 Sheen=None PID=21 Sheen=None PID=13 Sheen=None		WOODY DEBRIS; hard drilling; strong creosote-like odor	25
							SILTY CLAY (CL-ML); moist, gray; trace fine sand, brick debris and roots present, no odor	
							Bottom of exploration at 28 ft. bgs.	
30	20							30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log H3

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272430.00 N: 221018.00 (est)

H4

Contractor
Holt Services Inc

Equipment
CME-85

Sampling Method
Grab

Ground Surface Elev. (NAVD88)
51' (est)

Operator
John Bennett

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates
10/31/2019

Top of Casing Elev. (NAVD88)
NA

Depth to Water (Below GS)
No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable			PID=3 Sheen=None	ASPHALT; with base course		
		#3 Sand				SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; 10% fines, fine to medium sand, 20% fine gravel, no odor		
5		Conductive backfill with electrode element			PID=46 Sheen=None	SANDY SILT (ML); slightly moist, gray-brown; 20% fine to medium sand, 10% fine gravel, no odor		5
45					PID=80 Sheen=None			
10					PID=12 Sheen=None	SILTY CLAY (CL-ML); moist, gray; fines and sand present, wet at 20 ft. bgs no odor		10
40								
15					PID=56 Sheen=None			15
35					PID=125 Sheen=None			
20					PID=36 Sheen=None			20
30					PID=20 Sheen=None			25
25								
25								
							Bottom of exploration at 28 ft. bgs.	
30								30

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log H4



Spic N Span - 060172

Electrode Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272446.00 N: 221018.00 (est)

H5

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME 850X track mounted

Grab

52' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Dustin Smith

9/25/2019 to 9/26/2109

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable #3 Sand			PID=2.3 Sheen=None	CONCRETE; with base course		
						SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; <10% fines, fine to medium sand, 20% fine, subangular, gravel, brick debris present, no odor		
						ASPHALT; n.a		
5		Conductive backfill with electrode element				SILT WITH SAND (ML); slightly moist, gray-brown; 15% fine sand, trace gravel, hard drilling and wood fibres present @ 22 ft. bgs, no odor		5
45					PID=350 Sheen=None			
10					PID=497 Sheen=None			10
40								
15								15
35								
20								20
30						No Recovery		
25								25
25								
30							Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log H5

Sheet 1 of 1



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272406.00 N: 221004.00 (est)

J3

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

10/17/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Neat cement grout with power supply cable 1.5" CPVC shedule 80 casing connected to treatment system #3 Sand					CONCRETE; with base course	
		1.5" Stainless steel vapor recovery screen Bottom end cap			PID=21 Sheen=None		SAND WITH SILT AND GRAVEL (SW-SM); slightly moist, brown; <10% fines, fine to medium sand, 10% fine gravel, no odor	
5	45						SILTY CLAY (CL-ML); moist to wet, gray-brown; 15% fine sand, brick debris and roots present, no odor	5
10	40	Conductive backfill with electrode element			PID=40 Sheen=None			10
15	35				PID=57 Sheen=None			15
20	30				PID=20.6 Sheen=None			20
25	25				PID=7.1 Sheen=None			25
					PID=2.0 Sheen=None			
							Bottom of exploration at 28 ft. bgs.	
30	20							30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log J3

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272423.00 N: 221004.00 (est)

J4

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

51' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

10/28/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable 1.5" CPVC schedule 80 casing connected to treatment system #3 Sand			PID=2.4 Sheen=None	ASPHALT; with base course		
5		1.5" Stainless steel vapor recovery screen Bottom end cap			PID=0 Sheen=None	SAND WITH SILT AND GRAVEL (SW-SM); slightly moist, brown; 15% fines, fine to medium sand, 15% fine gravel, no odor		5
45							SANDY SILT (ML); slightly moist, gray-brown; 20% fine sand, 10% fine gravel, no odor	
10		Conductive backfill with electrode element			PID=0 Sheen=None		SANDY SILT (ML); moist, brown; 15% fine sand, 10% fine gravel, no odor	10
40								
15					PID=7.7 Sheen=None		SILTY CLAY (CL-ML); very moist to wet, gray; trace fine sand, no odor	15
35								
20					PID=0 Sheen=None			20
30								
25					PID=0 Sheen=None			25
25								
					PID=0 Sheen=None			
							Bottom of exploration at 28 ft. bgs.	
30								30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log J4

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272440.00 N: 221004.00 (est)

J5

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME 850X track mounted

Grab

52' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Dustin Smith

9/24/2019 to 9/25/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable 1.5" CPVC schedule 80 casing connected to treatment system #3 Sand			PID=3.6 Sheen=None	CONCRETE; with base course	SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; <10% fines, fine to medium sand, <15% fine, subangular, gravel, some brick debris present, no odor	
5		1.5" Stainless steel vapor recovery screen Bottom end cap			PID=2.1 Sheen=None	ASPHALT; n.a	SAND WITH SILT (SP-SM); slightly moist, gray-brown; <10% fines, fine to medium sand, < 15% fine, subangular, gravel, no odor	5
45					PID=5.0 Sheen=None		SANDY SILT (ML); slightly moist, gray-brown; silt, 25% fine to medium sand, 10% fine gravel, some brick debris present, no odor	
10		Conductive backfill with electrode element						10
40					PID=4.3 Sheen=None		SILTY CLAY (CL-ML); moist, light gray; 15% fine sand, 5% fine gravel, no odor	
15								15
35								
20					PID=99 Sheen=None		SILTY CLAY (CL-ML); wet, gray; 25% fine to medium sand, trace gravel, petroleum-like odor present @ 25 ft. bgs	20
30								
25					PID=167 Sheen=None			25
25								
30							Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log J5

Sheet 1 of 1



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272406.00 N: 220994.00 (est)

K3

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

49' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

10/17/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
45		Neat cement grout with power supply cable 1.5" CPVC schedule 80 casing connected to treatment system #3 Sand			PID=2.4 Sheen=None		CONCRETE; with base course SAND WITH SILT AND GRAVEL (SW-SM); slightly moist, brown; <10% fines, fine to medium sand, 15% fine to course gravel, no odor	
5		1.5" Stainless steel vapor recovery screen Bottom end cap					SILTY CLAY (CL-ML); slightly moist, gray; 15% fine sand, brick debris and roots present, no odor	5
40		Conductive backfill with electrode element			PID=1.9 Sheen=None			10
35					PID=1.3 Sheen=None			15
30					PID=0 Sheen=None			20
25					PID=0 Sheen=None			25
20								25
20							Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log K3

Sheet 1 of 1



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272416.00 N: 220993.00 (est)

K4

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

11/19/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Neat cement grout with power supply cable 1.5" CPVC shedule 80 casing connected to treatment system #3 Sand					ASPHALT; with base course	
		1.5" Stainless steel vapor recovery screen Bottom end cap			PID=12 Sheen=None		SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; 10% fines, fine to medium sand, 15% fine gravel, no odor	
5	45						SANDY SILT (ML); slightly moist, gray brown; 20% fine sand, trace gravel, no odor	5
10	40	Conductive backfill with electrode element			PID=2.7 Sheen=None		SILTY CLAY (CL-ML); moist, gray; trace sand, no odor	
15	35				PID=162 Sheen=None			15
20	30				PID=22 Sheen=None			20
25	25				PID=2.4 Sheen=None			25
					PID=3.7 Sheen=None			
							Bottom of exploration at 28 ft. bgs.	
30	20							30

Legend

<p>Sample Type</p>	<p>Water Level</p>	<p>No Water Encountered</p>	<p>See Exploration Log Key for explanation of symbols</p> <p>Logged by: DRB Approved by: DIM</p>
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Exploration Log K4

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272432.00 N: 220993.00 (est)

K5

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

51' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

10/28/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable 1.5" CPVC shedule 80 casing connected to treatment system #3 Sand					ASPHALT; with base course	
					PID=3 Sheen=None		SAND WITH SILT AND GRAVEL (SW-SM); slightly moist, brown; 15% fines, fine to medium sand, 15% fine gravel, no odor	
5		1.5" Stainless steel vapor recovery screen						5
45		Bottom end cap					SANDY SILT (ML); slightly moist, gray-brown; 20% fine to medium sand, 10% fine gravel, brick debris and roots present, no odor	
					PID=34 Sheen=None			
10		Conductive backfill with electrode element						10
40					PID=5.7 Sheen=None		SANDY SILT (ML); slightly moist, brown; 20% fine to medium sand, 10% fine gravel, brick debris and roots present, no odor	
15								15
35					PID=15.2 Sheen=None		SILTY CLAY (CL-ML); moist to wet, gray; trace fine sand, no odor	
20								20
30					PID=2.1 Sheen=None			
25								25
25					PID=0 Sheen=None			
30							Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log K5

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272409.00 N: 220982.00 (est)

L4

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

10/16/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Neat cement grout with power supply cable 1.5" CPVC schedule 80 casing connected to treatment system #3 Sand			PID=2.2 Sheen=None		CONCRETE; with base course	
		1.5" Stainless steel vapor recovery screen Bottom end cap			PID=3.6 Sheen=None		SAND WITH SILT AND GRAVEL (SW-SM); slightly moist, brown; <10% fines, fine to medium sand, 15% gravel, no odor	
5	45						SILTY CLAY (CL-ML); moist, gray; 15% fine sand, brick debris present, no odor	5
					PID=5.0 Sheen=None		SILTY CLAY (CL-ML); moist, gray-brown; 15% fine sand, brick debris and roots present, no odor	
10	40	Conductive backfill with electrode element			PID=27 Sheen=None			10
					PID=10 Sheen=None		SILTY CLAY (CL-ML); moist to wet, gray; 15% fine sand, no odor	
15	35				PID=25 Sheen=None			15
					PID=0 Sheen=None			
20	30							20
25	25							25
30	20						Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log L4

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272424.00 N: 220982.00 (est)

L5

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

51' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

10/30/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable 1.5" CPVC schedule 80 casing connected to treatment system #3 Sand			PID=0 Sheen=None		ASPHALT; with base course SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; fine to medium sand; fine to gravel; no odor	
5		1.5" Stainless steel vapor recovery screen			PID=0 Sheen=None		SILT WITH SAND (ML); slightly moist, brown; fine to medium sand; trace gravel; brick debris present; no odor	5
45		Bottom end cap						
10		Conductive backfill with electrode element			PID=0 Sheen=None			10
40								
15								
35					PID=0 Sheen=None		CLAY WITH SAND (CL); moist, gray; wood fibers & debris present; no odor	15
20								
30					PID=0 Sheen=None			20
25								
25					PID=0 Sheen=None		becomes wet	25
							Bottom of exploration at 28 ft. bgs.	
30								30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log L5

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272441.00 N: 220982.00 (est)

L6

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME 850X track mounted

Grab

51' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Dustin Smith

11/13/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable 1.5" CPVC shedule 80 casing connected to treatment system #3 Sand					ASPHALT; with base coarse SAND WITH SILT (SP-SM); slightly moist, brown; fine to medium sand; fine to coarse gravel	
5		1.5" Stainless steel vapor recovery screen					SANDY SILT (ML); slightly moist, brown; fine to medium sand; trace gravel	5
45		Bottom end cap			PID=2.7 Sheen=None			
10		Conductive backfill with electrode element			PID=4.0 Sheen=None		becomes gray brown with some brick debris present	10
40								
15								
35					PID=7.5 Sheen=None		CLAY (CL); moist, gray	15
20								
30					PID=4.1 Sheen=None			20
25								
25								
25					PID=5.1 Sheen=None			25
28							Bottom of exploration at 28 ft. bgs.	28
30								30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log L6

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272401.00 N: 220970.00 (est)

M4

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

10/16/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Neat cement grout with power supply cable 1.5" CPVC schedule 80 casing connected to treatment system #3 Sand			PID=0.7 Sheen=None		CONCRETE; with base course SAND WITH SILT AND GRAVEL (SW-SM); slightly moist, brown; <10% fines, fine to medium sand, 15% fine to course gravel, no odor	
5	45	1.5" Stainless steel vapor recovery screen Bottom end cap			PID=0.3 Sheen=None		SILTY CLAY (CL-ML); moist, gray; 15% fine sand, brick debris present, no odor	5
10	40	Conductive backfill with electrode element						10
15	35							15
20	30				PID=2.1 Sheen=None		SILTY CLAY (CL-ML); very moist, gray; 15% fine sand, wood debris present, no odor	20
25	25				PID=2.0 Sheen=None			25
					PID=0 Sheen=None			
							Bottom of exploration at 28 ft. bgs.	
30	20							30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log M4

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272418.00 N: 220970.00 (est)

M5

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

10/21/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	Neat cement grout with power supply cable 1.5" CPVC shedule 80 casing connected to treatment system #3 Sand 1.5" Stainless steel vapor recovery screen Bottom end cap			PID=6.3 Sheen=None		ASPHALT; with base course SAND WITH SILT (SW-SM); slightly moist, brown; <10% silt, fine to medium sand, 10% gravel, no odor	5
10	40	Conductive backfill with electrode element			PID=5.4 Sheen=None		SANDY SILT (ML); slightly moist, brown; 20% fine to medium sand, 10% gravel, no odor	10
15	35				PID=0.3 Sheen=None		SILTY CLAY (CL-ML); moist, brown; 15% fine sand, no odor	15
20	30				PID=0 Sheen=None		SILTY CLAY (CL-ML); very moist, gray; 15% fine sand, no odor	20
25	25				PID=0 Sheen=None			25
30	20						Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log M5

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272435.00 N: 220970.00 (est)

M6

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

51' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

10/25/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Neat cement grout with power supply cable 1.5" CPVC schedule 80 casing connected to treatment system #3 Sand			PID=2.3 Sheen=None		ASPHALT; with base course	
5		1.5" Stainless steel vapor recovery screen			PID=0 Sheen=None		SAND WITH SILT AND GRAVEL (SW-SM); slightly moist, brown; <10% fines, fine to medium sand, 15% fine gravel, no odor	5
45		Bottom end cap					SANDY SILT (ML); slightly moist, brown; 20% fine to medium sand, 10% gravel, no odor	
10		Conductive backfill with electrode element			PID=0 Sheen=None			10
40								
15								15
35					PID=0 Sheen=None			
20								20
30					PID=0 Sheen=None		SILTY CLAY (CL-ML); very moist, gray; 15% fine sand, no odor	
25								25
25					PID=0 Sheen=None			
							Bottom of exploration at 28 ft. bgs.	
30								30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log M6

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272397.00 N: 220960.00 (est)

N4

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME 850X track mounted

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Dustin Smith

10/17/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Neat cement grout with power supply cable 1.5" CPVC shedule 80 casing connected to treatment system #3 Sand			PID=2.4 Sheen=None		CONCRETE; with base course SAND WITH SILT AND GRAVEL (SW-SM); slightly moist, brown; <10% fines, fine to medium sand, 15% fine to course gravel, no odor	
5	45	1.5" Stainless steel vapor recovery screen Bottom end cap			PID=6.4 Sheen=None		SILTY CLAY (CL-ML); moist, gray-brown; 15% fine to medium sand, brick debris and roots present, no odor	5
10	40	Conductive backfill with electrode element			PID=5.1 Sheen=None		SILTY CLAY (CL-ML); moist to wet, gray; 15% fine sand, brick debris and roots present, no odor	10
15	35				PID=1.9 Sheen=None			15
20	30				PID=0 Sheen=None			20
25	25							25
30	20						Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log N4

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E:1272411.00 N:220959.00 (est)

N5

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

49' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

10/15/2019 to 10/25/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Neat cement grout with power supply cable 1.5" CPVC shedule 80 casing connected to treatment system #3 Sand					CONCRETE; with base course	
45		1.5" Stainless steel vapor recovery screen Bottom end cap			PID=3.2 Sheen=None		SAND WITH SILT AND GRAVEL (SW-SM); slightly moist, brown; 10% fines, fine to medium sand, 20% fine to course gravel, no odor	
5					PID=1.3 Sheen=None		SANDY SILT (ML); slightly moist, gray-brown; 30% fine to medium sand, 10% fine gravel, brick debris present, no odor	5
40		Conductive backfill with electrode element			PID=1.0 Sheen=None		SILTY CLAY (CL-ML); moist, gray; 20% fine sand, brick debris and roots present, no odor	10
10					PID=0.7 Sheen=None			15
35								15
15								15
30								20
20								20
25					PID=0 Sheen=None		SILTY CLAY (CL-ML); very moist, gray; trace fine sand, no odor	25
25								25
25					PID=0 Sheen=None			25
25								25
20							Bottom of exploration at 28 ft. bgs.	30
30								30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log N5

Sheet 1 of 1



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272431.00 N: 220959.00 (est)

N6

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

10/29/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	Neat cement grout with power supply cable 1.5" CPVC schedule 80 casing connected to treatment system #3 Sand 1.5" Stainless steel vapor recovery screen Bottom end cap			PID=2.7 Sheen=None	ASPHALT; with base course	SILTY SAND WITH GRAVEL (SM); slightly moist, brown; 20% fines, fine to medium sand, 15% fine gravel, no odor	5
10	40	Conductive backfill with electrode element			PID=28 Sheen=None PID=23 Sheen=None PID=15 Sheen=None		SANDY SILT (ML); slightly moist, brown; 20% fine sand, 10% fine gravel, brick debris present, no odor	10
15	35				PID=7.7 Sheen=None		SILTY CLAY (CL-ML); moist to wet, gray; trace fine sand, no odor	15
20	30				PID=12 Sheen=None			20
25	25				PID=9.7 Sheen=None PID=5.1 Sheen=None			25
30	20				PID=0 Sheen=None		Bottom of exploration at 28 ft. bgs.	30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log N6

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272407.00 N: 220945.00 (est)

P5

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME 850X track mounted

Grab

49' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Dustin Smith

10/16/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
45		Neat cement grout with power supply cable 1.5" CPVC schedule 80 casing connected to treatment system #3 Sand			PID=2.0 Sheen=None		CONCRETE; with base course	5
5							SAND WITH SILT AND GRAVEL (SW-SM); slightly moist, brown; <10% fines, fine to medium sand, 20% fine to course gravel, no odor	
40		1.5" Stainless steel vapor recovery screen Bottom end cap			PID=1.0 Sheen=None		SILTY CLAY (CL-ML); moist, gray-brown; trace fine sand, no odor	
10								
35		Conductive backfill with electrode element			PID=0.8 Sheen=None		SILTY CLAY (CL-ML); very moist to wet, gray; trace fine sand, wood debris present, no odor	15
15								
30					PID=0 Sheen=None			20
20								
25					PID=0 Sheen=None			25
25								
20							Bottom of exploration at 28 ft. bgs.	30
30								

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log P5

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272422.00 N: 220945.00 (est)

P6

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

49' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

10/15/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
45		Neat cement grout with power supply cable 1.5" CPVC schedule 80 casing connected to treatment system #3 Sand					CONCRETE; with base course	
5					PID=11.5 Sheen=None		SAND WITH SILT AND GRAVEL (SW-SM); slightly moist, brown; 10% fines, fine to medium sand, 20% fine to course gravel, no odor	5
40		1.5" Stainless steel vapor recovery screen Bottom end cap					SANDY SILT (ML); slightly moist, gray-brown; 25% fine to medium sand, no odor	
10								
35		Conductive backfill with electrode element			PID=37.5 Sheen=None			15
15								
30					PID=1.9 Sheen=None		SILTY CLAY (CL-ML); moist to very moist, gray; 15% - 20% fine sand, no odor	20
20					PID=0.9 Sheen=None			25
25					PID=0.3 Sheen=None			25
25								
20							Bottom of exploration at 28 ft. bgs.	30
30								

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log P6

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Electrode and Vapor Recovery Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272438.00 N: 220945.00 (est)

P7

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

50' (est)

Operator

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

10/14/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	Neat cement grout with power supply cable 1.5" CPVC schedule 80 casing connected to treatment system #3 Sand			PID=2.1 Sheen=None	CONCRETE; with base course SAND WITH SILT AND GRAVEL (SW-SM); slightly moist, brown; 10% fines, fine to medium sand, 20% fine to coarse gravel, no odor	5	
10	40	1.5" Stainless steel vapor recovery screen Bottom end cap			PID=1.7 Sheen=None	SANDY SILT (ML); moist, gray-brown; 20% fine sand, no odor	10	
15	35	Conductive backfill with electrode element			PID=0 Sheen=None	SILTY CLAY (CL-ML); moist, gray-brown; 20% fine sand, no odor	15	
20	30				PID=0 Sheen=None	SILTY CLAY (CL-ML); very moist to wet, light gray; 20% fine to medium sand, no odor	20	
25	25				PID=0 Sheen=None		25	
30	20					Bottom of exploration at 28 ft. bgs.	30	

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log P7

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Project Address & Site Specific Location

652 S Dear Born St., Seattle, WA

Temperature Monitoring Log

Coordinates (SPN NAD83 ft)

E:1272471.00 N:221095.00 (est)

Exploration Number

TMPB-3

Contractor

Holt Services Inc

Equipment

CME-85

Sampling Method

Grab

Ground Surface Elev. (NAVD88)

50' (est)

Operator

John Bennett

Exploration Method(s)

8.5" OD X 4.25" ID
Hollow-Stem Auger

Work Start/Completion Dates

9/3/2019

Top of Casing Elev. (NAVD88)

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	<p>Flush mounted monument in cement</p> <p>Neat cement grout</p> <p>1.5" Carbon steel casing</p>			<p>PID=10.3 Sheen=None</p>	<p>ASPHALT; with base course</p> <p>SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; 10% fines, fine to medium sand, 15% fine gravel, no odor</p> <p>SILTY SAND WITH GRAVEL (SM); slightly moist, gray-brown; 25% silt, fine to medium sand, 15% fine gravel, brick and concrete debris present, no odor</p>	5	
10	40				<p>PID=11.0 Sheen=None</p>	<p>SANDY SILT (ML); moist, gray-brown; 25% fine to medium sand, 10% fine gravel, no odor</p>	10	
15	35							15
20	30				<p>PID=2.0 Sheen=None</p>	<p>SILTY SAND (SM); wet, brown; 25% fines, fine to medium sand, 10% fine gravel, no odor</p>		20
25	25	<p>Bottom end cap</p>					<p>Bottom of exploration at 25 ft. bgs.</p>	25
30	20							30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
TMPB-3

Sheet 1 of 1



Spic N Span - 060172

Project Address & Site Specific Location

652 S Dear Born St., Seattle, WA

Temperature Monitoring Log

Coordinates (SPN NAD83 ft)

E:1272463.00 N:221067.00 (est)

Exploration Number

TMPD-4

Contractor

Holt Services Inc

Equipment

CME-85

Sampling Method

Grab

Ground Surface Elev. (NAVD88)

51' (est)

Operator

John Bennett

Exploration Method(s)

8.5" OD X 4.25" ID
Hollow-Stem Auger

Work Start/Completion Dates

9/3/2019

Top of Casing Elev. (NAVD88)

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Flush mounted monument in cement					ASPHALT; with base course	
		Neat cement grout			PID=8.2 Sheen=None		SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; 10% fines, fine to medium sand, 15% fine gravel, no odor	
5		1.5" Carbon steel casing			PID=11.1 Sheen=None		SANDY SILT WITH GRAVEL (ML); slightly moist, gray-brown; 25% fine to medium sand, 15% fine gravel, brick and concrete debris present, no odor	5
45					PID=7.6 Sheen=None		SILTY CLAY (CL-ML); moist, gray; 15% fine sand, 15% gravel, no odor	10
10					PID=6.4 Sheen=None		SANDY SILT (ML); very moist, gray-brown; 20% fine to medium sand, 10% gravel, no odor	15
40					PID=2.0 Sheen=None		SILTY SAND (SM); wet, brown; 20% fines, fine to medium sand, 10% gravel, no odor	20
15					PID=0.9 Sheen=None		SANDY SILT (ML); wet, brown; 30% sand, 10% gravel, no odor	25
35							Bottom of exploration at 25 ft. bgs.	25
20								30
30								30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
TMPD-4

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Temperature Monitoring Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dear Born St., Seattle, WA

E: 1272507.00 N: 221067.00 (est)

TMPD-7

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

CME-85

Grab

51' (est)

Operator

Exploration Method(s)
8.5" OD X 4.25" ID
Hollow-Stem Auger

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

John Bennett

9/3/2019

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Flush mounted monument in cement			PID=0.7 Sheen=None		ASPHALT; with base course	
		Neat cement grout			PID=5.5 Sheen=None		SANDY SILT (ML); slightly moist, brown; 30% fine to medium sand, 10% fine gravel, no odor	
5		1.5" Carbon steel casing					SILTY SAND (SM); slightly moist, brown; 15% fines, fine to medium sand, 5% fine gravel, brick and concrete debris present, no odor	5
45								
10								
40					PID=7.0 Sheen=None		SANDY SILT (ML); moist, brown; 20% fine to medium sand, trace fine gravel, no odor	10
15								
35					PID=7.5 Sheen=None		SANDY SILT (ML); very moist, brown-gray; 15% fine to medium sand, no odor	15
20								
30								
25								
25		Bottom end cap			PID=2.2 Sheen=None		SANDY SILT (ML); wet, brown; 30% fine to medium sand, 10% gravel, no odor	25
							Bottom of exploration at 26 ft. bgs.	
30								30

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
TMPD-7

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Project Address & Site Specific Location
652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)
E:1272471.00 N:221101.00 (est)

Exploration Number

VPB3-4

Contractor Holt Services Inc	Equipment CME-85	Sampling Method Grab	Ground Surface Elev. (NAVD88) 50' (est)
Operator John Bennett	Exploration Method(s) 12.5-in OD Hollow-stem Auger	Work Start/Completion Dates 8/30/2019	Top of Casing Elev. (NAVD88) NA
			Depth to Water (Below GS) No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1	49	Controlled density fill with 1.5" CPVC pipe connected to treatment system				ASPHALT	ASPHALT; with base course	1
2	48					SAND WITH SILT AND GRAVEL (SP-SM)	SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; 10% fines, fine to medium sand, 20% fine to course gravel, no odor	1
3	47	Fine sand				SANDY SILT WITH GRAVEL (ML)	SANDY SILT WITH GRAVEL (ML); slightly moist, gray-brown; 30% fine to medium, trace course, sand, 15% fine gravel, brick and concrete debris present, no odor	2
4	46							2
5	45	1.5" Stainless steel screen			PID=9.8 Sheen=None			5
6	44							6
7	43	Bottom end cap						7
8	42						8	
9	41							9
10	40						Bottom of exploration at 10 ft. bgs.	10
11	39							11

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
VPB3-4

Sheet 1 of 1



Spic N Span - 060172

Project Address & Site Specific Location
652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)
E:1272487.00 N:221101.00 (est)
Ground Surface Elev. (NAVD88)
50' (est)

Exploration Number

VPB4-5

Contractor
Holt Services Inc

Equipment
CME-85

Sampling Method
Grab

Operator
John Bennett

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates
8/29/2019

Top of Casing Elev. (NAVD88)
NA

Depth to Water (Below GS)
No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1	49	Controlled density fill with 1.5" CPVC pipe connected to treatment system				ASPHALT	ASPHALT; with base course	1
2	48					SAND WITH GRAVEL (SW)	SAND WITH GRAVEL (SW); slightly moist, brown; <5% fines, fine to medium sand, 25% fine to coarse gravel, no odor	2
3	47	Fine sand			PID=9.7 Sheen=None		SANDY SILT WITH GRAVEL (ML)	3
4	46						SANDY SILT WITH GRAVEL (ML); slightly moist, gray-brown; 20% fine to medium sand, 15% fine gravel, concrete debris, hard drilling, no odor	4
5	45				PID=11.2 Sheen=None			5
6	44	1.5" Stainless steel screen						6
7	43				PID=4.6 Sheen=None			7
8	42	Bottom end cap						8
9	41							9
10	40						Bottom of exploration at 10 ft. bgs.	10
11	39							11

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
VPB4-5

Sheet 1 of 1



Spic N Span - 060172

Project Address & Site Specific Location

652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)

E:1272463.00 N:221087.00 (est)

Exploration Number

VPC3-4

Contractor

Holt Services Inc

Equipment

CME-85

Sampling Method

Grab

Ground Surface Elev. (NAVD88)

50' (est)

Operator

John Bennett

Exploration Method(s)

12.5-in OD Hollow-stem Auger

Work Start/Completion Dates

8/29/2019

Top of Casing Elev. (NAVD88)

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1	49	Controlled density fill with 1.5" CPVC pipe connected to treatment system				ASPHALT	ASPHALT; with base course	1
2	48				PID=1.2 Sheen=None	SAND WITH GRAVEL (SP)	SAND WITH GRAVEL (SP); slightly moist, brown; >5% fines, fine to medium sand, 20% fine to coarse gravel, no odor	2
3	47	Fine sand				SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM); slightly moist, gray-brown; 20% fines, fine to medium sand, 15% fine gravel, brick and concrete debris present, no odor	3
4	46							4
5	45	1.5" Stainless steel screen						5
6	44							6
7	43	Bottom end cap						7
8	42				PID=2.6 Sheen=None			8
9	41							9
10	40						Bottom of exploration at 10 ft. bgs.	10
11	39							11

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log VPC3-4

Sheet 1 of 1



Spic N Span - 060172

Project Address & Site Specific Location
652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)
E:1272479.00 N:221087.00 (est)

Exploration Number

VPC4-5

Contractor Holt Services Inc	Equipment CME-85	Sampling Method Grab	Ground Surface Elev. (NAVD88) 50' (est)
Operator John Bennett	Exploration Method(s) 12.5-in OD Hollow-stem Auger	Work Start/Completion Dates 8/28/2019	Top of Casing Elev. (NAVD88) NA
			Depth to Water (Below GS) No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1	49	Controlled density fill with 1.5" CPVC pipe connected to treatment system			PID=5.0 Sheen=None	ASPHALT	ASPHALT; with base course	1
2	48					SAND WITH GRAVEL (SP)	SAND WITH GRAVEL (SP); slightly moist, brown; >10% fines, fine to medium sand, 20% fine to course gravel, no odor	2
3	47	Fine sand			PID=24.3 Sheen=None	SANDY SILT (ML)	SANDY SILT (ML); slightly moist, gray-brown; 30% fine to medium sand, 10% fine gravel, brick and concrete debris present, no odor	3
4	46							4
5	45							5
6	44	1.5" Stainless steel screen						6
7	43							7
8	42	Bottom end cap						8
9	41							9
10	40						Bottom of exploration at 10 ft. bgs.	10
11	39							11

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023

Legend 	Water Level 	No Water Encountered 	See Exploration Log Key for explanation of symbols Logged by: DRB Approved by: DIM	Exploration Log VPC4-5 Sheet 1 of 1
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Spic N Span - 060172

Project Address & Site Specific Location
652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)
E:1272495.00 N:221087.00 (est)

Exploration Number

VPC5-6

Contractor Holt Services Inc	Equipment CME-85	Sampling Method Grab	Ground Surface Elev. (NAVD88) 50' (est)	Exploration Number VPC5-6
Operator John Bennett	Exploration Method(s) 12.5-in OD Hollow-stem Auger	Work Start/Completion Dates 8/28/2019	Top of Casing Elev. (NAVD88) NA	
			Depth to Water (Below GS) No Water Encountered	

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1	49	Controlled density fill with 1.5" CPVC pipe connected to treatment system			PID=3.1 Sheen=None	ASPHALT	ASPHALT; with base course	1
2	48					SAND WITH GRAVEL (SP)	SAND WITH GRAVEL (SP); slightly moist, brown; >5% fines, 15% fine to coarse gravel, no odor	2
3	47	Fine sand				SANDY SILT WITH GRAVEL (ML)	SANDY SILT WITH GRAVEL (ML); slightly moist, gray-brown; 20% fine to medium sand, 15% gravel, brick and concrete fragments present, no odor	3
4	46							4
5	45	1.5" Stainless steel screen			PID=18.0 Sheen=None			5
6	44							6
7	43							7
8	42	Bottom end cap						8
9	41							9
10	40						Bottom of exploration at 10 ft. bgs.	10
11	39							11

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023

Legend 	No Water Encountered	See Exploration Log Key for explanation of symbols	Exploration Log VPC5-6 Sheet 1 of 1
	Water Level 	Logged by: DRB Approved by: DIM	



Spic N Span - 060172

Project Address & Site Specific Location
652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)
E: 1272470.00 N: 221074.00 (est)

Exploration Number

VPD4-5

Contractor
Holt Services Inc

Equipment
CME-85

Sampling Method
Grab

Ground Surface Elev. (NAVD88)
51' (est)

Operator
John Bennett

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates
8/27/2019

Top of Casing Elev. (NAVD88)
NA

Depth to Water (Below GS)
No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1	50	Controlled density fill with 1.5" CPVC pipe connected to treatment system				ASPHALT	ASPHALT; with base course	1
2	49					SAND (SP)	SAND (SP); slightly moist, brown; >5% fines, fine to medium sand, trace gravel, no odor	2
3	48	Fine sand			PID=4.3 Sheen=None		SANDY SILT WITH GRAVEL (ML)	3
4	47						SANDY SILT WITH GRAVEL (ML); slightly moist, gray-brown; 25% fine to medium sand, 15% fine to course gravel, brick and concrete debris present, no odor	4
5	46	1.5" Stainless steel screen						5
6	45	Bottom end cap			PID=1.6 Sheen=None		SILTY SAND (SM)	6
7	44						SILTY SAND (SM); slightly moist, gray; 25% fines, fine to medium sand, 10% fine gravel, brick debris present, no odor	7
8	43				PID=0.8 Sheen=None			8
9	42							9
10	41						Bottom of exploration at 10 ft. bgs.	10
11	40							11

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
VPD4-5

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Project Address & Site Specific Location

652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)

E:1272486.00 N:221074.00 (est)

Exploration Number

VPD5-6

Contractor

Holt Services Inc

Equipment

CME-85

Sampling Method

Grab

Ground Surface Elev. (NAVD88)

50' (est)

Operator

John Bennett

Exploration Method(s)

12.5-in OD Hollow-stem Auger

Work Start/Completion Dates

8/27/2019

Top of Casing Elev. (NAVD88)

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1	49	Controlled density fill with 1.5" CPVC pipe connected to treatment system					ASPHALT; with base course	1
2	48				PID=16.4 Sheen=None		GRAVEL WITH SILT AND SAND (GW-GM); slightly moist, gray to brown; 15% fines, 20% fine to course sand, fine to course, subangular, gravel, brick and concrete debris present, no odor	2
3	47	Fine sand						3
4	46							4
5	45				PID=122 Sheen=None			5
6	44	1.5" Stainless steel screen						6
7	43				PID=147 Sheen=None			7
8	42	Bottom end cap					SILT WITH SAND (ML); slightly moist, brown; 30% fine to medium sand, 10% gravel, no odor	8
9	41				PID=22 Sheen=None			9
10	40						Bottom of exploration at 10 ft. bgs.	10
11	39							11

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
VPD5-6

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Project Address & Site Specific Location
652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)
E: 1272504.00 N: 221074.00 (est)
Ground Surface Elev. (NAVD88)
51' (est)

Exploration Number

VPD6-7

Contractor
Holt Services Inc

Equipment
CME-85

Sampling Method
Grab

Operator
John Bennett

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates
8/23/2019

Top of Casing Elev. (NAVD88)
NA

Depth to Water (Below GS)
No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1	50	Controlled density fill with 1.5" CPVC pipe connected to treatment system				ASPHALT	ASPHALT; with base course	1
2	49				PID=24.3 Sheen=None	SAND WITH SILT (SP-SM); slightly moist, brown; 10% fines, fine to medium sand, 10% fine to course gravel, no odor	2	
3	48	Fine sand					SANDY SILT WITH GRAVEL (ML); slightly moist, brown; 15% fine to medium sand, 15% fine to course gravel, brick and concrete debris present, no odor	3
4	47							4
5	46		1.5" Stainless steel screen					
6	45	Bottom end cap						6
7	44							7
8	43				PID=25.3 Sheen=None			8
9	42							9
10	41						Bottom of exploration at 10 ft. bgs.	10
11	40							11

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
VPD6-7

Sheet 1 of 1



Spic N Span - 060172

Project Address & Site Specific Location

652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)

E:1272463.00 N:221061.00 (est)

Exploration Number

VPE4-5

Contractor

Holt Services Inc

Equipment

CME-85

Sampling Method

Grab

Ground Surface Elev. (NAVD88)

51' (est)

Operator

John Bennett

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

8/23/2019

Top of Casing Elev. (NAVD88)

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1	50	Controlled density fill with 1.5" CPVC pipe connected to treatment system					ASPHALT; with base course	1
2	49				PID=15.4 Sheen=None		SILTY SAND (SM); slightly moist, brown; 20% fines, fine to medium sand, 10% fine gravel, concrete and brick debris present, no odor	2
3	48	Fine sand					SILT WITH SAND (ML); slightly moist, gray; 20% fine to medium sand, 10% fine to coarse gravel, no odor	3
4	47				PID=15.3 Sheen=None			4
5	46	1.5" Stainless steel screen						5
6	45						6	
7	44							7
8	43	Bottom end cap						8
9	42				PID=10.7 Sheen=None			9
10	41							10
11	40						Bottom of exploration at 10 ft. bgs.	11

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
VPE4-5

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Project Address & Site Specific Location
652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)
E:1272478.00 N:221060.00 (est)

Exploration Number

VPE5-6

Contractor Holt Services Inc	Equipment CME-85	Sampling Method Grab	Ground Surface Elev. (NAVD88) 51' (est)	Exploration Number VPE5-6
Operator John Bennett	Exploration Method(s) 12.5-in OD Hollow-stem Auger	Work Start/Completion Dates 8/22/2019	Top of Casing Elev. (NAVD88) NA	

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1	50	Controlled density fill with 1.5" CPVC pipe connected to treatment system				ASPHALT	ASPHALT; with base course	1
2	49				PID=8.1 Sheen=None	SILT SAND WITH GRAVEL (SM); slightly moist, brown; 20% fines, fine to course sand, 15% fine to course gravel, no odor	2	
3	48	Fine sand				SILT WITH SAND (ML); slightly moist, gray-brown; fine to medium sand, 15% fine to course gravel, brick debris present, no odor	3	
4	47						4	
5	46	1.5" Stainless steel screen			PID=7.8 Sheen=None		5	
6	45						6	
7	44					7		
8	43	Bottom end cap					8	
9	42				PID=14.0 Sheen=None		9	
10	41					Bottom of exploration at 10 ft. bgs.	10	
11	40						11	

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log VPE5-6

Sheet 1 of 1



Spic N Span - 060172

Project Address & Site Specific Location

652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)

E:1272493.00 N:221060.00 (est)

Exploration Number

VPE6-7

Contractor

Holt Services Inc

Equipment

CME-85

Sampling Method

Grab

Ground Surface Elev. (NAVD88)

51' (est)

Operator

John Bennett

Exploration Method(s)

12.5-in OD Hollow-stem Auger

Work Start/Completion Dates

8/21/2019

Top of Casing Elev. (NAVD88)

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)	
1	50	Controlled density fill with 1.5" CPVC pipe connected to treatment system			PID=0.0 Sheen=None	[Symbol]	ASPHALT; with base course	1	
2	49							GRAVEL WITH SILT (GW-GM); slightly moist, brown; fine to course subangular gravel, fine to course sand, no odor	2
3	48	Fine sand			PID=0.0 Sheen=None	[Symbol]		3	
4	47								4
5	46								5
6	45	1.5" Stainless steel screen			PID=0.0 Sheen=None	[Symbol]		6	
7	44								7
8	43	Bottom end cap			PID=0.0 Sheen=None	[Symbol]	SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; fine to medium sand, fine to course gravel, no odor	8	
9	42								9
10	41				PID=0.0 Sheen=None	[Symbol]		10	
11	40							Bottom of exploration at 10 ft. bgs.	11

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log VPE6-7

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Project Address & Site Specific Location
652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)
E:1272508.00 N:221060.00 (est)

Exploration Number

VPE7-8

Contractor Holt Services Inc	Equipment CME-85	Sampling Method Grab	Ground Surface Elev. (NAVD88) 51' (est)
Operator John Bennett	Exploration Method(s) 12.5-in OD Hollow-stem Auger	Work Start/Completion Dates 8/21/2019	Top of Casing Elev. (NAVD88) NA
			Depth to Water (Below GS) No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1	50	Controlled density fill with 1.5" CPVC pipe connected to treatment system			PID=0.1 Sheen=None	ASPHALT	ASPHALT; with base course	1
2	49					SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; fine to medium sand, fine to course gravel, trace brick and concrete debris, no odor	2	
3	48	Fine sand			PID=0.0 Sheen=None			3
4	47					SAND WITH SILT (SP-SM); slightly moist, brown; fine to medium sand, trace fine gravel, no odor	4	
5	46	1.5" Stainless steel screen			PID=0.0 Sheen=None			5
6	45						6	
7	44	Bottom end cap			PID=0.0 Sheen=None			7
8	43						8	
9	42							9
10	41						Bottom of exploration at 10 ft. bgs.	10
11	40							11

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
VPE7-8

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Project Address & Site Specific Location

652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)

E:1272437.00 N:221046.00 (est)

Exploration Number

VPF3-4

Contractor

Holt Services Inc

Equipment

CME 850X track mounted

Sampling Method

Grab

Ground Surface Elev. (NAVD88)

52' (est)

Operator

Dustin Smith

Exploration Method(s)

12.5-in OD Hollow-stem Auger

Work Start/Completion Dates

11/12/2019

Top of Casing Elev. (NAVD88)

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1	51	Controlled density fill with 1.5" CPVC pipe connected to treatment system				ASPHALT	ASPHALT; with base course	1
2	50					SAND WITH SILT AND GRAVEL (SP-SM)	SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brownfine to medium sand; fine gravel	2
3	49	Fine sand						3
4	48							4
5	47	1.5" Stainless steel screen						5
6	46				PID=2.1			6
7	45	Bottom end cap						7
8	44							8
9	43				PID=1.8			9
10	42						Bottom of exploration at 10 ft. bgs.	10
11	41							11

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log VPF3-4

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Project Address & Site Specific Location
652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)
E:1272414.00 N:221032.00 (est)

Exploration Number

VPG2-3

Contractor
Holt Services Inc

Equipment
CME-85

Sampling Method
Grab

Ground Surface Elev. (NAVD88)
50' (est)

Operator
John Bennett

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates
10/30/2019

Top of Casing Elev. (NAVD88)
NA

Depth to Water (Below GS)
No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1	49	Controlled density fill with 1.5" CPVC pipe connected to treatment system				ASPHALT	ASPHALT; with base course	1
2	48				PID=1.6	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM); slightly moist, brown; fine to coarse sand; fine gravel	2
3	47	Fine sand						3
4	46							4
5	45		1.5" Stainless steel screen				SILT WITH SAND (ML)	SILT WITH SAND (ML); slightly moist, gray brown; fine to medium sand; fine gravel; brick debris present
6	44	Bottom end cap			PID=0			6
7	43							7
8	42							8
9	41				PID=0			9
10	40						Bottom of exploration at 10 ft. bgs.	10
11	39							11

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log VPG2-3

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Project Address & Site Specific Location
652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)
E:1272431.00 N:221032.00 (est)

Exploration Number

VPG3-4

Contractor

Holt Services Inc

Equipment

CME 850X track mounted

Sampling Method

Grab

Ground Surface Elev. (NAVD88)

51' (est)

Operator

Dustin Smith

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

11/12/2019

Top of Casing Elev. (NAVD88)

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1	50					ASPHALT	ASPHALT; with base course	1
2	49				PID=1.8	SAND WITH SILT AND GRAVEL (SP-SM)	SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brownfine to medium sand; fine gravel	2
3	48							3
4	47					SILT WITH SAND (ML)	SILT WITH SAND (ML); slightly moist, gray brown; fine to medium sand; trace gravel	4
5	46							5
6	45				PID=2.1			6
7	44							7
8	43							8
9	42							9
10	41						Bottom of exploration at 10 ft. bgs.	10
11	40							11

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
VPG3-4

Sheet 1 of 1



Spic N Span - 060172

Project Address & Site Specific Location

652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)

E:1272480.00 N:221032.00 (est)

Exploration Number

VPG6-7

Contractor

Holt Services Inc

Equipment

CME 850X track mounted

Sampling Method

Grab

Ground Surface Elev. (NAVD88)

51' (est)

Operator

Dustin Smith

Exploration Method(s)
12.5-in OD Hollow-stem
Auger

Work Start/Completion Dates

11/19/2019

Top of Casing Elev. (NAVD88)

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
							ASPHALT; with base course	
1	50						SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; fine to medium sand; fine to coarse gravel	1
2	49				PID=1.1 Sheen=None			2
3	48							3
4	47							4
5	46				PID=3.6 Sheen=None		SANDY SILT (ML); slightly moist, gray brown; fine to medium sand; trace gravel; some brick debris present	5
6	45							6
7	44							7
8	43							8
9	42							9
10	41						Bottom of exploration at 10 ft. bgs.	10
11	40							11

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
VPG6-7

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Project Address & Site Specific Location
652 S Dear Born St., Seattle, WA

Vapor Recovery Log

Coordinates (SPN NAD83 ft)
E: 1272436.00 N: 221018.00 (est)

Exploration Number

VP4-5

Contractor
Holt Services Inc

Equipment
CME 850X track mounted

Sampling Method
Grab

Ground Surface Elev. (NAVD88)
52' (est)

Operator
Dustin Smith

Exploration Method(s)
12.5-in OD Hollow-stem Auger

Work Start/Completion Dates
11/14/2019

Top of Casing Elev. (NAVD88)
NA

Depth to Water (Below GS)
No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)	
1	51	Controlled density fill with 1.5" CPVC pipe connected to treatment system				ASPHALT	ASPHALT; with base course	1	
2	50					SAND WITH SILT AND GRAVEL (SP-SM)	SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; fine to medium sand; fine to coarse gravel; no odor	2	
3	49	Fine sand			PID=2.5			3	
4	48						SILT WITH SAND (ML)	SILT WITH SAND (ML); slightly moist, gray brown; fine to medium sand; trace gravel; brick debris present; no odor	4
5	47				PID=1.6			5	
6	46	1.5" Stainless steel screen						6	
7	45							7	
8	44	Bottom end cap						8	
9	43				PID=21			9	
10	42						Bottom of exploration at 10 ft. bgs.	10	
11	41							11	

Legend

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
VP4-5

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023



Spic N Span - 060172

Project Address & Site Specific Location

652 S Dear Born St., Seattle, WA

Monitoring Well Log

Coordinates (SPN NAD83 ft)

E: 1272420.00 N: 220955.00

Exploration Number

MW-5R

Ecology Well Tag No.
BPK 714

Depth to Water (Below GS)

19.3' (Static)

Contractor

Holt Services Inc

Equipment

CME-85

Sampling Method

Grab

Ground Surface Elev. (Site Specific)

99.68'

Operator

John Bennett

Exploration Method(s)

8.5" OD X 4.25" ID
Hollow-Stem Auger

Work Start/Completion Dates

10/29/2019

Top of Casing Elev. (Site Specific)

98.92'

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0		Flush mounted monument				ASPHALT; with base course		
0		Neat cement				SILTY SAND WITH GRAVEL (SM); slightly moist, gray brown; fine medium sand; fine gravel		
0		2" Stainless steel casing				SILT WITH SAND (ML); slightly moist, gray brown; fine sand; fine gravel		
5	95				PID=20 Sheen=None			5
10	90	20/40 Sand						10
10		10 Slot stainless steel screen			PID=17 Sheen=None			10
15	85							15
15					PID=8.1 Sheen=None		CLAY WITH SAND (CL); moist, gray; some wood debris present	15
20	80	10/29/2019 11/20/2019						20
25	75				PID=3 Sheen=None			25
25					PID=2.1 Sheen=None			25
30	70	Bottom end cap			PID=0 Sheen=None			30
30							Bottom of exploration at 30 ft. bgs.	30

Legend

Sample Type

Water Level

- ▼ Static Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
MW-5R

Sheet 1 of 1



Spic N Span - 060172

Project Address & Site Specific Location

652 S Dear Born St., Seattle, WA

Monitoring Well Log

Coordinates (SPN NAD83 ft)

E: 1272413.00 N: 221023.00

Exploration Number

MW-10

Ecology Well Tag No. BPK 711

Contractor

Holt Services Inc

Equipment

CME-85

Sampling Method

Grab

Ground Surface Elev. (Site Specific)

100.01'

Operator

John Bennett

Exploration Method(s)

8.5" OD X 4.25" ID Hollow-Stem Auger

Work Start/Completion Dates

11/1/2019

Top of Casing Elev. (Site Specific)

99.2'

Depth to Water (Below GS)

18.9' (Static)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	95	Flush mounted monument Neat cement 2" Stainless steel casing			PID=21.7 Sheen=None	ASPHALT; with base course		5
10	90	20/40 Sand 10 Slot stainless steel screen				SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; 10% fines, fine to medium sand, 15% fine gravel, no odor		10
15	85				PID=128 Sheen=None	SANDY SILT (ML); slightly moist, gray brown; 15% sand, trace fine gravel, brick debris present, no odor		15
20	80	11/20/2019 11/1/2019			PID=60 Sheen=None	SILTY CLAY (CL-ML); moist, gray; trace fine sand, wood debris present, wet at 25 ft. bgs no odor		20
25	75				PID=28 Sheen=None			25
30	70	Bottom end cap			PID=4 Sheen=None			30
							Bottom of exploration at 30 ft. bgs.	

Legend

Sample Type

Water Level

- ▼ Static Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log MW-10

Sheet 1 of 1



Spic N Span - 060172

Project Address & Site Specific Location

652 S Dear Born St., Seattle, WA

Monitoring Well Log

Coordinates (SPN NAD83 ft)

E:1272464.00 N:221061.00

Exploration Number

MW-11

Ecology Well Tag No.
BPK 712

Contractor

Holt Services Inc

Equipment

CME-85

Sampling Method

Grab

Ground Surface Elev. (Site Specific)

100.54'

Operator

John Bennett

Exploration Method(s)

8.5" OD X 4.25" ID
Hollow-Stem Auger

Work Start/Completion Dates

8/19/2019

Top of Casing Elev. (Site Specific)

100.29'

Depth to Water (Below GS)

19.6' (Static)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
100		Flush mounted monument			PID=0 Sheen=None		ASPHALT; with base course	
		Neat cement					SAND WITH SILT AND GRAVEL (SW-SM); Slightly moist, gray brown; fine to medium sand, fine to coarse subangular gravel, brick debris present.	
5		2" Stainless steel casing						5
95		20/40 Sand			PID=2.1 Sheen=None			
10		10 Slot stainless steel screen					CLAY (CH); moist, gray; Trace medium sand, trace fine gravel, roots & wood debris present.	10
90					PID=0.6 Sheen=None			
15								15
85					PID=1.6 Sheen=None			
20		8/19/2019 11/20/2019					SILT (ML); very moist, dark brown; trace medium sand, trace fine gravel, little root & wood debris present.	20
80					PID=3.6 Sheen=None			
							SILTY SAND (SM); wet, brown; fine to medium sand, trace gravel.	20
25								25
75					PID=0.2 Sheen=None			
30		Bottom end cap						30
70					PID=0.1 Sheen=None		Bottom of exploration at 30 ft. bgs.	30

Legend

Sample Type

Water Level

- ▼ Static Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
MW-11

Sheet 1 of 1



Spic N Span - 060172

Project Address & Site Specific Location
652 S Dear Born St., Seattle, WA

Monitoring Well Log

Coordinates (SPN NAD83 ft)
E: 1272492.00 N: 221086.00
Ground Surface Elev. (Site Specific)
99.89'
Top of Casing Elev. (Site Specific)
99.75'

Exploration Number
MW-12
Ecology Well Tag No.
BPK 713
Depth to Water (Below GS)
18.35' (Static)

Contractor: Holt Services Inc
Equipment: CME-85
Sampling Method: Grab
Operator: John Bennett
Exploration Method(s): 8.5" OD X 4.25" ID Hollow-Stem Auger
Work Start/Completion Dates: 8/19/2019 to 8/20/2019

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	95	Flush mounted monument Neat cement 2" Stainless steel casing			PID=0.2	ASPHALT; with base course	SAND WITH SILT (SW-SM); slightly moist, brown; fine to medium sand, fine to course gravel.	5
10	90	20/40 Sand 10 Slot Stainless steel screen			PID=1.7	SILT (ML); slightly moist, dark brown; fine sand, trace gravel.		10
15	85				PID=1.1	SILTY SAND (SM); moist, dark brown; fine to medium sand, trace gravel.		15
20	80	8/20/2019 11/20/2019			PID=1.0	SILT WITH SAND (ML); very moist, brown; fine to medium sand, trace gravel.		20
25	75				PID=0	SAND (SW); wet, brown; fine to medium sand, trace silt & gravel.		25
30	70	Bottom end cap			PID=0.1	SILT WITH SAND (ML); wet, brown; fine to medium sand, trace gravel		30
							Bottom of exploration at 30 ft. bgs.	30

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN SUBSURFACE INSTALLATION.GPJ May 15, 2023

Legend

Static Water Level
 Water Level ATD

See Exploration Log Key for explanation of symbols
 Logged by: DRB
 Approved by: DIM

Exploration Log
MW-12
 Sheet 1 of 1



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, W central of Keybank lot.

E:1272458.00 N:221084.00 (est)

CB-01

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 7822DT

Percussion hammer

50' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

11/18/2021

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Backfilled with grout and asphalt patch					ASPHALT; asphalt 0.5 - 5ft bgs removed with vac truck.	
5	45		S1	CB-01-7-111821 VOCs by 8260; NWTPH-Gx	PID=0.2 PID=0.3 PID=0.2		SILT WITH SAND (ML); moist, dark brown; low plasticity fines; fine to medium, subrounded to subangular sand; fine to medium gravel; brick debris present; no sheen; chemical-like odor.	5
10	40		S2	CB-01-13-111821 VOCs by 8260; NWTPH-Gx	PID=0.2 PID=0.3 PID=1.1 PID=0.7		SILT (ML); moist, dark brown; low plasticity fines; trace fine to medium sand; trace fine to coarse, subrounded to subangular gravel; no sheen; chemical-like odor.	10
15	35		S3	CB-01-19-111821 VOCs by 8260; NWTPH-Gx	PID=0.6 PID=1.4 PID=1.5 PID=2.5 PID=1.0		SAND WITH SILT AND GRAVEL (SP-SM); moist, brown; low plasticity fines; medium to coarse, angular to rounded sand; fine to coarse, subrounded to angular gravel; no sheen; chemical-like odor.	15
20	30		S4	CB-01-23-111821 VOCs by 8260; NWTPH-Gx	PID=0.4 PID=1.5 PID=4.3 PID=1.8 PID=1.0 PID=1.4		SILT WITH SAND (ML); moist, brown; low plasticity fines; fine to medium sand; trace fine, subrounded to subangular gravel; no sheen; strong odor.	20
25	25							25
30	20						Bottom of exploration at 28 ft. bgs.	30

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: MMR
Approved by: DIM

Exploration Log
CB-01

Sheet 1 of 1



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, Central of Key Bank lot.

E: 1272476.00 N: 221089.00 (est)

CB-02

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 7822DT

Percussion hammer

50' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

11/18/2021

NA

26.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	Backfilled with grout and asphalt patch	S1	CB-02-8-111821 VOCs by 8260; NWTPH-Gx	PID=0.1 PID=0.2 PID=0.3	ASPHALT; asphalt	0.5 - 5ft bgs removed with vac truck.	5
10	40							
15	35		S2	CB-02-13-111821 VOCs by 8260; NWTPH-Gx	PID=0.4 PID=0.4 PID=0.5	SILT WITH SAND (ML); moist, dark brown; low plasticity fines; fine to coarse, subangular to subrounded sand; fine to coarse, subangular to subrounded gravel; brick debris present; no sheen; chemical-like odor.		10
20	30							
25	25	▽ 11/18/2021	S3 S4	CB-02-21-111821 VOCs by 8260; NWTPH-Gx CB-02-22-111821 VOCs by 8260; NWTPH-Gx	PID=0.8 PID=3.6 PID=3.2 PID=1.3 PID=2.4 PID=0.9 PID=0.8	SAND WITH SILT AND GRAVEL (SP-SM); moist, dark brown; low plasticity fines; medium to coarse, angular to rounded sand; fine to coarse, subangular to subrounded gravel; no sheen; chemical-like odor.		20
25	25							
30	20					SAND WITH SILT (SP-SM); wet, brown; low plasticity fines; medium to coarse, angular to rounded sand; trace subrounded to subangular gravel; no sheen; chemical-like odor.		25
							Bottom of exploration at 28 ft. bgs.	30

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: MMR
Approved by: DIM

Exploration Log
CB-02

Sheet 1 of 1



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, Central of Key Bank lot.

E:1272476.00 N:221089.00 (est)

CB-02A

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 7822DT

Percussion hammer

50' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

12/3/2021

NA

17.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Backfilled with grout and asphalt patch					ASPHALT; asphalt. 0.5 - 2.5 ft bgs removed by hand.	
5	45		S1	CB-2A-3-120321 VOCs by 8260; NWTPH-Gx	PID=1.6 PID=2.8 PID=1.8 PID=1.9 PID=2.0		SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; low plasticity fines; fine to coarse, angular to rounded sand; fine to coarse, subangular to subrounded gravel; woody debris present; no sheen; chemical-like odor. Becomes blue-gray. Becomes brown.	5
10	40				PID=0.8		Increased silt content.	10
15	35				PID=1.4 PID=1.2 PID=2.2 PID=3.4		SILT WITH SAND (ML); slightly moist, blue-gray; low plasticity fines; fine to medium sand; trace fine to coarse gravel; woody debris present; no sheen; chemical-like odor present. SAND WITH SILT AND GRAVEL (SP-SM); wet, brown; low plasticity fines; medium to coarse, angular to subrounded sand; fine to coarse, subrounded to subangular gravel; no sheen; chemical-like odor.	15
20	30	∇ 12/3/2021	S2	CB-2A-18-120321 VOCs by 8260; NWTPH-Gx			Bottom of exploration at 20 ft. bgs.	20
25	25							25
30	20							30

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

∇ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: MMR
Approved by: DIM

Exploration Log
CB-02A

Sheet 1 of 1



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, Key Bank Parking Lot

E: 1272476.00 N: 221089.00 (est)

CB-02B

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 7822DT

Percussion hammer

50' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

1/10/2022

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	Backfilled with grout and asphalt patch	S1	CB-02-3-011022	PID=0.2 PID=0.2 PID=0.3 PID=0.3	ASPHALT; asphalt	FILL SAND WITH SILT (SP-SM); slightly moist, brown; fine to medium sand; trace fine to medium, subangular to subrounded gravel. SILT (ML); moist, gray; trace find to medium sand; medium plasticity. Bottom of exploration at 3 ft. bgs.	5
10	40							10
15	35							15
20	30							20
25	25							25
30	20							30

Legend

- Continuous core 1.85" ID
- Grab sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: RAC
Approved by: DIM

Exploration Log
CB-02B

Sheet 1 of 1



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, SE central of Key Bank lot.

E:1272496.00 N:221090.00 (est)

CB-03

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 7822DT

Percussion hammer

50' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

11/18/2021

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)	
5	45	Backfilled with grout and asphalt patch	S1	CB-03-7-111821 VOCs by 8260; NWTPH-Gx	PID=0.3	ASPHALT; asphalt 0.5 - 5ft bgs removed with vac truck.		5	
			S2		CB-03-8-111821 VOCs by 8260; NWTPH-Gx			PID=0.7	SILT WITH SAND (ML); moist, blue and gray; low plasticity fines; fine to medium, subrounded to angular sand; fine to coarse, angular to rounded gravel; brick debris present; no sheen; chemical-like odor.
10	40			PID=1.5				PID=1.2	
				PID=0.7	PID=0.4				
15	35			PID=0.2		Becomes black. Becomes brown.		15	
				PID=1.0	PID=1.3				20
20	30		S3	CB-03-21-111821 VOCs by 8260; NWTPH-Gx		PID=1.7			
					PID=0.7	PID=1.3			
25	25			PID=0.3	PID=0.6		SAND WITH SILT AND GRAVEL (SP-SM); moist, brown; low plasticity fines; medium to coarse, angular to rounded sand; fine to coarse, angular to rounded gravel; no sheen; chemical-like odor.		
			S4	CB-03-26-111821 VOCs by 8260; NWTPH-Gx		PID=1.3			
					PID=0.8	PID=0.1			
30	20								
							Bottom of exploration at 28 ft. bgs.		

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: MMR
Approved by: DIM

Exploration Log
CB-03

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172 - SPIC N SPAN V2.GPJ May 15, 2023



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, S central of Key Bank lot.

E: 1272470.00 N: 221064.00 (est)

CB-04

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 7822DT

Percussion hammer

51' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

11/18/2021

NA

25' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Backfilled with grout and asphalt patch					ASPHALT; asphalt. 0.5 - 5ft bgs removed with vac truck.	
5							No recovery.	5
45								
10			S1	CB-04-8.5-111821 VOCs by 8260; NWTPH-Gx	PID=0.4		SAND WITH SILT AND GRAVEL (SP-SM); moist, brown; low plasticity fines; medium to coarse, angular to rounded sand; fine to coarse, subrounded to angular gravel; no sheen.	10
40			S2	CB-04-13-111821 VOCs by 8260; NWTPH-Gx	PID=0.3 PID=0.9 PID=1.0 PID=0.9			
15			S3	CB-04-15-111821 VOCs by 8260; NWTPH-Gx	PID=0.8		SILT (ML); moist, blue and gray; low plasticity fines; trace fine sand; no sheen.	15
35								
20								
30			S4	CB-04-23.5-111821 VOCs by 8260; NWTPH-Gx	PID=3.0 PID=0.8 PID=4.5 PID=3.8 PID=1.5		SAND WITH GRAVEL (SP); moist, brown; low plasticity fines; fine to coarse, angular to rounded sand; fine to coarse, subangular to angular gravel; no sheen.	20
25		11/18/2021						
25			S5	CB-04-26.5-111821 VOCs by 8260; NWTPH-Gx	PID=5.0 PID=7.5 PID=1.2		SAND WITH SILT AND GRAVEL (SP-SM); moist, brown; low plasticity fines; fine to medium, subrounded to angular sand; fine to coarse, subrounded to rounded gravel; no sheen.	25
30							SAND WITH GRAVEL (SP); very moist, brown; low plasticity fines; fine to coarse, angular to rounded sand; fine to coarse, subangular to angular gravel; no sheen. Bottom of exploration at 28 ft. bgs.	30

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: MMR
Approved by: DIM

Exploration Log
CB-04

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172-SPIC N SPAN V2.GPJ May 15, 2023



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, N central of Spic N Span lot.

E: 1272470.00 N: 221064.00 (est)

CB-04A

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 7822DT

Percussion hammer

51' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

12/3/2021

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Backfilled with grout and asphalt patch					ASPHALT; asphalt. 0.5 - 2.5 ft bgs removed by hand.	
5					PID=0.1 PID=0.1 PID=0.7		SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; low plasticity fines; fine to medium, subrounded to angular sand; fine to coarse, angular to subrounded gravel; no sheen; chemical-like odor.	5
45			S1	CB-4A-6-120321 VOCs by 8260; NWTPH-Gx	PID=0.7 PID=0.9 PID=0.5			
10							Bottom of exploration at 10 ft. bgs.	10
40								
15								
35								
20								
30								
25								
25								
30								
20								

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
CB-04A

Sheet 1 of 1



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, S central of Key Bank lot.

E:1272490.00 N:221061.00 (est)

CB-05

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 7822DT

Percussion hammer

51' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

11/18/2021

NA

27.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Asphalt patch Backfilled with grout and asphalt patch					ASPHALT; asphalt. 0.5 - 5ft bgs removed with vac truck.	
5			S1	CB-05-7-111821 VOCs by 8260; NWTPH-Gx	PID=0.8 PID=2.1 PID=0.6 PID=0.8		SAND WITH GRAVEL (SP); wet, brown; low plasticity fines; medium to coarse, angular to subangular sand; fine to medium, subangular to subrounded gravel; no sheen; chemical-like odor.	5
10			S2	CB-05-12-111821 VOCs by 8260; NWTPH-Gx	PID=1.2 PID=0.5 PID=1.4		SAND WITH SILT AND GRAVEL (SP-SM); dry, brown; low plasticity fines; fine to medium, subangular to subrounded sand; fine to medium, subangular to subrounded gravel; no sheen; strong chemical-like odor. SILT WITH SAND (ML); moist, dark brown; low plasticity fines; fine, subangular to angular sand; fine, subrounded to subangular gravel; no sheen; chemical-like odor.	10
15			S3	CB-05-18-111821 VOCs by 8260; NWTPH-Gx	PID=1.1 PID=1.1 PID=1.3 PID=2.8 PID=1.6		SAND WITH GRAVEL (SP); very moist, brown; low plasticity fines; medium to coarse, subrounded to angular sand; fine to coarse, subrounded gravel; brick debris present; no sheen; chemical-like odor.	15
20			S4	CB-05-27.5-111821 VOCs by 8260; NWTPH-Gx	PID=1.5 PID=0.9 PID=1.1 PID=1.7		SAND WITH SILT AND GRAVEL (SP-SM); moist, brown; low plasticity fines; fine to medium, subrounded to angular sand; fine, subangular to rounded gravel; no sheen; chemical-like odor.	20
25							Bottom of exploration at 28 ft. bgs.	25
30								30

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: MMR
Approved by: DIM

Exploration Log
CB-05

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172 - SPIC N SPAN V2.GPJ May 15, 2023



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, N side within building

E:1272467.00 N:221045.00 (est)

CB-06

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 54LT

Percussion hammer

51' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

11/22/2021

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Backfilled with grout and concrete patch					CONCRETE; concrete.	
5	45		S1	CB-06-5-112221 VOCs by 8260; NWTPH-Gx	PID=0.6 Sheen=No sheen		SILTY SAND (SM); moist, brown; low plasticity fines; fine to medium sand; trace fine gravel; no odor.	5
10	40		S2	CB-06-8-112221 VOCs by 8260; NWTPH-Gx	PID=0.5 Sheen=No sheen PID=0.6		SILT WITH SAND (ML); moist, brown; low plasticity fines; fine to medium sand; fine, subangular to subrounded gravel; no odor.	10
15	35		S3	CB-06-15-112221 VOCs by 8260; NWTPH-Gx	PID=0.6 Sheen=No sheen PID=0.7 PID=0.4 Sheen=No sheen			15
20	30		S4	CB-06-21-112221 VOCs by 8260; NWTPH-Gx	PID=0.8 Sheen=No sheen PID=0.7 PID=1.4 Sheen=No sheen PID=0.6 PID=0.8 Sheen=No sheen		Becomes very moist, gray.	20
25	25				PID=4.1 PID=3.2		Bottom of exploration at 22 ft. bgs. Note: Refusal at 22 ft. bgs.	25
30	20							30

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
CB-06

Sheet 1 of 1



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, N edge of building

E:1272467.00 N:221045.00 (est)

CB-06B

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 54LT

Percussion hammer

51' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

1/11/2022

NA

20' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Backfilled with grout and concrete patch			PID=0.3 PID=0.1 PID=0.3	CONCRETE; concrete cored	SILTY SAND WITH GRAVEL (SM); slightly moist, brown; fine to coarse, subrounded to subangular sand; fine to coarse, subangular to subrounded gravel.	
5					PID=0.3 PID=0.2 PID=0.1		Becomes gray-brown. Becomes with trace brick debris.	5
45					PID=0.3 PID=0.6 PID=1.4		SANDY SILT (ML); slightly moist, gray; fine to medium sand; low to medium plasticity.	10
10					PID=0.9 PID=0.5 PID=0.7 PID=0.9 PID=0.6 PID=0.4			15
35					PID=0.3 PID=0.7 PID=0.4 PID=0.5		SANDY SILT WITH GRAVEL (ML); slightly moist, gray; fine to medium sand; fine to coarse, subrounded gravel.	
20		▽ 1/11/2022			PID=0.5 PID=0.4 PID=0.6		SILTY SAND (SM); wet, gray; fine to coarse, subangular to subrounded sand; trace fine, subangular gravel; low plasticity fines. SANDY SILT (ML); wet, gray; fine to medium, subangular to subrounded; low to medium plasticity.	20
30			S1	CB-06-24-011122 VOCs by 8260	PID=0.3 PID=0.5		Becomes with brick debris.	25
25							Bottom of exploration at 28 ft. bgs.	
30							Note: Sample depths from January 2022 were corrected and sample names do not reflect the actual depth of samples collected.	30

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: RAC
Approved by: DIM

Exploration Log
CB-06B

Sheet 1 of 1



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, N side within building

E: 1272482.00 N: 221048.00 (est)

CB-07

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 54LT

Percussion hammer

51' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

11/22/2021

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Backfilled with grout and concrete patch					CONCRETE; concrete. 0.5 - 4 ft bgs removed by hand.	
5	45		S1	CB-07-5-112221 VOCs by 8260; NWTPH-Gx	PID=0.4 Sheen=None		SILTY SAND WITH GRAVEL (SM); moist, brown; low plasticity fines; fine to medium sand.	5
10	40		S2	CB-07-10.5-112221 VOCs by 8260; NWTPH-Gx	PID=1.6 Sheen=None PID=2.1 PID=2.9 Sheen=None		SILT WITH SAND (ML); moist, brown; low plasticity fines; fine to medium sand; trace fine, subangular gravel.	10
15	35				PID=0.8 Sheen=None PID=1.3 PID=1.4 Sheen=None		Bottom of exploration at 14.5 ft. bgs.	15
20	30							20
25	25							25
30	20							30

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
CB-07

Sheet 1 of 1



Spic N Span - 060172

Project Address & Site Specific Location

652 S Dearborn Street, Seattle WA, inside of drying room

Environmental Exploration Log

Coordinates (SPN NAD83 ft)

E:1272482.00 N:221048.00 (est)

Exploration Number

CB-07B

Contractor

Holt Services Inc

Equipment

Geoprobe 54LT

Sampling Method

Percussion hammer

Ground Surface Elev. (NAVD88)

51' (est)

Operator

Louis Fehner

Exploration Method(s)

Direct push

Work Start/Completion Dates

1/11/2022

Top of Casing Elev. (NAVD88)

NA

Depth to Water (Below GS)

23' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Backfilled with grout and concrete patch			PID=0.1 PID=0.2	CONCRETE; concrete cored	SAND WITH SILT (SP-SM); dry, gray-brown; fine to medium, subangular to subrounded; trace fine, subangular to subrounded gravel; low plasticity fines.	
5					PID=0.2	SANDY SILT WITH GRAVEL (ML); dry, brown; fine to coarse subangular to subrounded sand; fine to coarse gravel; low plasticity fines.		5
10					PID=0.8 PID=0.7 PID=0.9 PID=0.8	Becomes slightly moist and gray, with low to medium plasticity fines.		10
15			S1	CB-07-15.5-011122 VOCs by 8260	PID=0.7 PID=0.9 PID=0.8 PID=1.1 PID=0.6	SANDY SILT (ML); dry, brown; fine to coarse, subangular to subrounded sand; trace fine, subangular to subrounded gravel. Becomes moist and gray with medium plasticity. No gravel.		15
20			S2	CB-07-19-011122 VOCs by 8260	PID=1 PID=0.7 PID=1.6 PID=0.9	SILTY SAND (SM); moist, gray-brown; fine to medium, subangular to subrounded sand; trace coarse, subangular gravel; low plasticity fines.		20
25					PID=0.8 PID=0.7	SILT WITH SAND (ML); wet, gray; fine to medium sand; low to medium plasticity. SANDY SILT (ML); wet, gray; fine to medium sand.		20
25			S3	CB-07-26.5-011122 VOCs by 8260	PID=0.9 PID=1.1 PID=1.2 PID=1.4 PID=3.3 PID=2.3 PID=0.9	SAND WITH SILT (SP-SM); wet, dark gray; fine to medium sand; low to medium plasticity. SAND WITH SILT AND GRAVEL (SP-SM); wet, dark gray; fine to coarse sand; fine gravel. SANDY SILT (ML); moist, gray; fine to medium, subangular sand; trace subrounded gravel; low to medium plasticity.		25
30						Bottom of exploration at 28 ft. bgs.		30

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: RAC
Approved by: DIM

Exploration Log
CB-07B

Sheet 1 of 1



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, W side of building

E: 1272440.00 N: 221035.00 (est)

CB-08

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 7822DT

Percussion hammer

52' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

11/22/2021

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Backfilled with grout and asphalt patch	S1	CB-08-3-112221 VOCs by 8260; NWTPH-Gx	PID=1.7 PID=0.9 PID=5.3	ASPHALT; asphalt.	SAND WITH SILT AND GRAVEL (SW-SM); slightly moist, brown; low plasticity fines; fine to medium sand; fine to coarse, subangular gravel.	
5					PID=1.0	SILTY SAND (SM); moist, brown; low plasticity fines; fine to medium sand.		5
45					PID=1.5 PID=2.0 PID=1.7	SILT WITH SAND (ML); slightly moist, gray; low to medium plasticity fines; fine sand.		
10			S2	CB-08-10-112221 VOCs by 8260; NWTPH-Gx				10
40							Bottom of exploration at 10.5 ft. bgs. Note: Refusal at 10.5 ft. bgs.	

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
CB-08

Sheet 1 of 1



Spic N Span - 060172

Project Address & Site Specific Location

652 S Dearborn Street, Seattle WA, W of breezeway

Environmental Exploration Log

Coordinates (SPN NAD83 ft)

E:1272440.00 N:221035.00 (est)

Exploration Number

CB-08B

Contractor

Holt Services Inc

Equipment

Geoprobe 7822DT

Sampling Method

Percussion hammer

Ground Surface Elev. (NAVD88)

52' (est)

Operator

Louis Fehner

Exploration Method(s)

Direct push

Work Start/Completion Dates

1/10/2022

Top of Casing Elev. (NAVD88)

NA

Depth to Water (Below GS)

21' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Backfilled with grout and asphalt patch			PID=0.3 PID=1.1	ASPHALT; asphalt	SILTY SAND WITH GRAVEL (SM); moist, brown; fine to coarse sand; subangular to subrounded gravel; low plasticity fines.	
5					PID=0.4		SILT WITH SAND (ML); moist, gray; fine to medium sand; trace subangular to subrounded gravel; low to medium plasticity.	5
45								
10							Becomes with trace gravel.	10
40					PID=0.9 PID=0.4 PID=0.7 PID=0.3 PID=0.1 PID=0.2 PID=0.3 PID=0.2			
15							Becomes with trace woody organic material.	15
35					PID=0.3 PID=0.2 PID=0.2 PID=0.4 PID=0.5 PID=0.2 PID=0.8 PID=0.6 PID=0.9		Becomes without woody organic material. Becomes with trace woody organic material.	
20		1/10/2022	S1	CB-08-19.5-011022 NWTPH-Gx	PID=0.5 PID=0.3 PID=0.3 PID=0.4 PID=0.9 PID=1.3 PID=0.5 PID=0.7		Becomes with trace fine to coarse, subangular to subrounded gravel.	20
30							SILTY SAND (SM); moist, gray; fine to coarse sand; trace fine, subangular to subrounded gravel; low plasticity fines.	
25							SAND (SP); moist, gray; fine to coarse sand; trace fine to medium, subangular to subrounded gravel; trace low plasticity silt.	25
25			S2	CB-08-27-011022 NWTPH-Gx	PID=0.4 PID=0.5 PID=0.8 PID=1.7 PID=1.4 PID=0.5		Becomes with no gravel.	
28							Bottom of exploration at 28 ft. bgs.	
30							Note: Sample depths from January 2022 were corrected and sample names do not reflect the actual depth of samples collected.	30

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: RAC
Approved by: DIM

Exploration Log
CB-08B

Sheet 1 of 1



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, W side of building

E: 1272418.00 N: 221023.00 (est)

CB-10

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 7822DT

Percussion hammer

50' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

11/22/2021

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Backfilled with grout and asphalt patch					ASPHALT; asphalt. .5 - 5ft bgs removed with vac truck.	
5	45		S1	CB-10-6-112221 VOCs by 8260; NWTPH-Gx	PID=4.3 PID=0.3		SILTY SAND (SM); moist, brown; low plasticity fines; fine to medium sand. SILT WITH SAND (ML); slightly moist, gray; low plasticity fines; fine to medium sand.	5
10	40		S2	CB-10-13-112221 VOCs by 8260; NWTPH-Gx	PID=0.6 PID=0.6 PID=1.6 PID=0.5			10
15	35		S3	CB-10-16-112221 VOCs by 8260; NWTPH-Gx	PID=1.6 PID=0.9 PID=0.8 PID=0.5			15
20	30		S4	CB-10-23.5-112221 VOCs by 8260; NWTPH-Gx	PID=0.9 PID=0.3 PID=1.5 PID=1.6		Becomes very moist, medium plasticity fines.	20
25	25						Bottom of exploration at 23.5 ft. bgs. Note: Refusal at 23.5 ft bgs.	25
30	20							30

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DRB
Approved by: DIM

Exploration Log
CB-10

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172 - SPIC N SPAN V2.GPJ May 15, 2023



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, W side inside SNS building

E:1272449.00 N:221014.00 (est)

CB-11B

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 54LT

Percussion hammer

52' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

1/12/2022

NA

17' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Backfilled with grout and concrete patch			PID=0 PID=0.8	CONCRETE; concrete	SILTY SAND (SM); slightly moist, dark brown; medium sand. Becomes moist.	
5					PID=1.5	Becomes with trace coarse gravel.	SILT WITH SAND (ML); Becomes very moist, medium plasticity fines.; fine sand. Cobble present at bottom of sampler.	5
45					PID=1.2 PID=1.1			
10					PID=1.6		SANDY SILT (ML); moist, gray; medium to coarse sand; trace coarse gravel.	10
40					PID=2.5 PID=0.5 PID=2.6		Becomes with fine to coarse gravel. SILT (ML); moist, gray	
15					PID=3.1		Becomes very moist.	15
35		▽ 1/12/2022						
20				CB-11-20-011222 NWTPH-Gx	PID=10.8 PID=10.4		SANDY SILT (ML); wet, dark gray; medium to coarse sand. Slight solvent-like odor.	20
30				CB-11-24-011222 NWTPH-Gx	PID=16.4		Slight solvent-like odor.	
25					PID=4.9		SAND WITH SILT (SP-SM); wet, gray; medium to coarse sand; trace coarse gravel; slight solvent-like odor.	25
25							Bottom of exploration at 28 ft. bgs.	
30								30
20								

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: BBC
Approved by: DIM

Exploration Log
CB-11B

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172 - SPIC N SPAN V2.GPJ May 15, 2023



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, SW corner of lot.

E: 1272411.00 N: 220969.00 (est)

CB-12

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 7822DT

Percussion hammer

49' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

11/19/2021

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Backfilled with grout and asphalt patch			PID=0.6 PID=0.9		ASPHALT; asphalt.	
5			S1	CB-12-5-111921 VOCs by 8260; NWTPH-Gx	PID=1.0		SAND WITH SILT AND GRAVEL (SP-SM); moist, brown; low plasticity fines; fine to medium, angular to subrounded sand; fine, subangular to rounded gravel; no sheen; no odor.	5
10			S2	CB-12-13-111921 VOCs by 8260; NWTPH-Gx	PID=1.3 PID=1.8 PID=1.4		SILT WITH SAND (ML); moist, brown; low plasticity fines; fine to coarse, angular to subrounded sand; fine to coarse, subangular to subrounded gravel; no sheen; chemical-like odor.	10
15	55		S3	CB-12-17-111921 VOCs by 8260; NWTPH-Gx	PID=1.8 PID=1.4 PID=1.5		Becomes blue-gray.	15
20			S4	CB-12-22-111921 VOCs by 8260; NWTPH-Gx	PID=1.3 PID=0.8		Becomes brown.	20
25							Bottom of exploration at 24 ft. bgs.	25
30								30

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: MMR
Approved by: DIM

Exploration Log

CB-12

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172 - SPIC N SPAN V2.GPJ May 15, 2023



Spic N Span - 060172

Project Address & Site Specific Location

652 S Dearborn Street, Seattle WA, SW area of lot.

Environmental Exploration Log

Coordinates (SPN NAD83 ft)

E: 1272430.00 N: 220967.00 (est)

Exploration Number

CB-13

Contractor

Holt Services Inc

Equipment

Geoprobe 7822DT

Sampling Method

Percussion hammer

Ground Surface Elev. (NAVD88)

50' (est)

Operator

Louis Fehner

Exploration Method(s)

Direct push

Work Start/Completion Dates

11/19/2021

Top of Casing Elev. (NAVD88)

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	20	Backfilled with grout and asphalt patch			PID=0.1 PID=0.0 PID=0.1	ASPHALT; asphalt	ASPHALT; asphalt	0
5	45		S1	CB-13-5-111921 VOCs by 8260; NWTPH-Gx	PID=0.3 PID=0.6		SILT WITH SAND (ML); moist, brown; low plasticity fines; fine to coarse, angular to subrounded sand; fine to coarse, subangular to subrounded gravel; brick debris present; no sheen; no odor.	5
10	40		S2	CB-13-8-111921 VOCs by 8260; NWTPH-Gx	PID=1.9 PID=0.9		SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; low plasticity fines; fine to coarse, angular to subrounded sand; fine to coarse, angular to subrounded gravel; no sheen; chemical-like odor.	10
15	35		S3	CB-13-16-111921 VOCs by 8260; NWTPH-Gx	PID=0.5 PID=0.6			15
20	30		S4	CB-13-20-111921 VOCs by 8260; NWTPH-Gx	PID=1.2 PID=1.1		SILT WITH SAND (ML); moist, light brown; low plasticity fines; fine to medium, angular to subrounded sand; fine to coarse, subangular to subrounded gravel; no sheen; chemical-like odor.	20
25	25						Bottom of exploration at 22 ft. bgs.	25
30	20							30

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: MMR
Approved by: DIM

Exploration Log
CB-13

Sheet 1 of 1



Spic N Span - 060172

Project Address & Site Specific Location

652 S Dearborn Street, Seattle WA, W of SNS building

Environmental Exploration Log

Coordinates (SPN NAD83 ft)

E: 1272430.00 N: 220967.00 (est)

Exploration Number

CB-13B

Contractor

Holt Services Inc

Equipment

Geoprobe 7822DT

Sampling Method

Percussion hammer

Ground Surface Elev. (NAVD88)

50' (est)

Operator

Louis Fehner

Exploration Method(s)

Direct push

Work Start/Completion Dates

1/10/2022

Top of Casing Elev. (NAVD88)

NA

Depth to Water (Below GS)

18' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	45	Backfilled with grout and asphalt patch			PID=1.8 PID=0.9 PID=0.1 PID=0.3		ASPHALT; asphalt	5
					PID=0.5 PID=1.3		No brick or glass debris observed.	
10	40				PID=0.5 PID=0.4 PID=0.3 PID=0.3		SILT (ML); moist, gray; trace fine sand; low to medium plasticity.	10
15	35				PID=0.5 PID=0.6 PID=0.7 PID=0.3 PID=0.3 PID=0.5 PID=0.6		Becomes with trace fine, subangular gravel. Becomes wet with medium plasticity.	15
20	30	▽ 1/10/2022			PID=0.7 PID=0.4 PID=0.2 PID=0.8 PID=0.3 PID=0.2		SILT WITH SAND (ML); wet, gray; fine to coarse, subangular to subrounded sand; medium plasticity.	20
25	25		S1	CB-13-24.5-011022 VOCs by 8260	PID=0.3 PID=0.2 PID=0.2		Becomes with trace fine, subangular to subrounded gravel.	25
30	20						Bottom of exploration at 28 ft. bgs. Note: Sample depths from January 2022 were corrected and sample names do not reflect the actual depth of samples collected.	30

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: RAC
Approved by: DIM

Exploration Log

CB-13B

Sheet 1 of 1



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN NAD83 ft)

Exploration Number

652 S Dearborn Street, Seattle WA, SW side of building

E: 1272433.00 N: 220979.00 (est)

CB-14

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Holt Services Inc

Geoprobe 54LT

Percussion hammer

51' (est)

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Louis Fehner

Direct push

11/19/2021

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Backfilled with grout and asphalt patch			PID=0.2 PID=0.3		ASPHALT; asphalt. SAND WITH SILT AND GRAVEL (SP-SM); moist, brown; low plasticity fines; fine to coarse, angular to subrounded sand; fine to coarse, subangular to subrounded gravel; no sheen; chemical-like odor.	
5				CB-14-6-111921 VOCs by 8260; NWTPH-Gx	PID=0.8 PID=3.0 PID=1.2		Becomes slightly moist.	5
45			S1		PID=0.3 PID=0.7			
10				CB-14-13-111921 VOCs by 8260; NWTPH-Gx	PID=1.0 PID=1.6 PID=2.6			10
40			S2					
15				CB-14-21-111921 VOCs by 8260; NWTPH-Gx CB-14-22-111921 VOCs by 8260; NWTPH-Gx	PID=1.8 PID=2.0		SILT (ML); moist, blue-gray; low plasticity fines; trace fine to medium sand; trace fine, subangular to subrounded gravel; strong chemical-like odor.	15
35			S3					20
30			S4					20
25							Bottom of exploration at 24 ft. bgs.	25
25								25
30								30
20								30

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: MMR
Approved by: DIM

Exploration Log
CB-14

Sheet 1 of 1



Spic N Span - 060172

Environmental Exploration Log

Project Address & Site Specific Location
652 S Dearborn Street, Seattle WA, SW side of building, 8 ft SW of original location

Coordinates (SPN NAD83 ft)
E:1272433.00 N:220979.00 (est)

Exploration Number

CB-14B

Contractor
Holt Services Inc

Equipment
Geoprobe 7822DT

Sampling Method
Percussion hammer

Ground Surface Elev. (NAVD88)
51' (est)

Operator
Louis Fehner

Exploration Method(s)
Direct push

Work Start/Completion Dates
1/10/2022

Top of Casing Elev. (NAVD88)
NA

Depth to Water (Below GS)
10' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
50		Backfilled with grout and asphalt patch			PID=0.2 PID=0.1 PID=0.1 PID=0.1	ASPHALT; asphalt	SILTY SAND (SM); slightly moist, brown; fine to coarse, subangular to subrounded sand; low plasticity fines; trace fine, subangular to subrounded gravel.	
5					PID=0.5 PID=0.8		SANDY SILT (ML); moist, gray; fine to medium, subangular to subrounded sand; low to medium plasticity.	5
45							SILTY SAND (SM); moist, brown; fine to medium sand; low plasticity fines.	
10		▽ 1/10/2022			PID=1.1		SANDY SILT (ML); wet, gray-brown; fine to medium sand; low plasticity fines	10
40								
15			S1	CB-14-20-011022 NWTPH-Gx	PID=1.6		Becomes moist.	15
35								
20			S2	CB-14-22-011022 NWTPH-Gx	PID=1.6 PID=0.4 PID=0.5 PID=0.8		Becomes with trace fine, subangular to subrounded gravel.	20
30			S3	CB-14-24.5-011022 NWTPH-Gx	PID=0.4 PID=0.8			
25								
25			S4	CB-14-29.5-011022 NWTPH-Gx	PID=5 PID=5.1 PID=5.4		SILT (ML); moist, gray; trace fine to medium sand; low plasticity fines.	25
30								
20							Bottom of exploration at 30 ft. bgs.	30

Note: Sample depths from January 2022 were corrected and sample names do not reflect the actual depth of samples collected.

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: RAC
Approved by: DIM

Exploration Log

CB-14B

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\060172 - SPIC N SPAN V2.GPJ May 15, 2023

APPENDIX D

Photo Log



Photograph 1. Electrode Installation in KeyBank Parking Lot (2019)



Photograph 2. Electrode Row D Trench (2019)



Photograph 3. Liquid GAC Vessels (July 2021)



Photograph 4. Vapor GAC Vessels (July 2021)



Photograph 5. Confirmation Soil Borings (November 2021)



Photograph 6. Hot Soil Sampling Sleeves (November 2021)



Photograph 7. Hot Groundwater Sampling (December 2021)



Photograph 8. Vapor GAC Removal (March 2022)

APPENDIX E

Soil, Groundwater, and GAC Disposal Documentation

472467

Please print or type.

Form Approved. OMB No. 2050-0039

PS 9-18-19

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number WAD027473974	2. Page 1 of 2	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 013781918 FLE
---	--	-------------------	---	--

5. Generator's Name and Mailing Address SPIC & SPAN CLEANERS INC 2101 4th Ave, Suite 310 Seattle WA 98121	Generator's Site Address (if different than mailing address) SPIC & SPAN CLEANERS INC 852 S DEARBORN ST SEATTLE WA 98134-1393
--	--

6. Transporter 1 Company Name NRC	U.S. EPA ID Number CAR000030114
--------------------------------------	------------------------------------

7. Transporter 2 Company Name Union Pacific	U.S. EPA ID Number NE0061742910
--	------------------------------------

8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17820 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709	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		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. UN3077 WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S., B, III, (F002)	01	CM	24,800 P	P	F002		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. OR342959;LF04 - Bulk F-Listed IDW Soil; ERG=171,RQ=10lbs
E/R/P=CHEMTREC#CCN24117 Container# 8627 24620P.

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/Offero's Printed/Typed Name: Jeremy Porter Signature: [Signature] Date: 09/06/19

16. International Shipments: Import to U.S. Export from U.S. Partial entry/exit: _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tania Herrera on behalf of NRC Environmental Signature: [Signature] Date: 9/6/19
Transporter 2 Printed/Typed Name: James Ruppert Signature: [Signature] Date: 9/6/19

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

18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____

Facility's Phone: _____
18c. Signature of Alternate Facility (or Generator) _____ Date: _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 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: Pat Slider Signature: [Signature] Date: 9/13/19

GENERATOR

TRANSPORTER (INTL)

DESIGNATED FACILITY

47240+

Please print or type.

Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number

WHS 021473974

22. Page

2

23. Manifest Tracking Number

013781918 FILE

24. Generator's Name

Spw + Spaw Cleaners

25. Transporter

3

Company Name

CRL

U.S. EPA ID Number

ORD 987173457

26. Transporter

Company Name

U.S. EPA ID Number

27a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

No.

Type

29. Total Quantity

30. Unit Wt./Vol.

31. Waste Codes

GENERATOR

32. Special Handling Instructions and Additional Information

WMX4 81027

TRANSPORTER

33. Transporter

Acknowledgment of Receipt of Materials

Printed/Typed Name

Jan L. Gabben

Signature

[Signature] 9/14/19

Month Day Year

34. Transporter

Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

472562

x9/11

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST	Generator ID Number WADO27473974	2. Page 1 of 1	3. Emergency Response Phone 800-424-9300	4. Manifest Tracking Number 020121164 JJK
----------------------------------	-------------------------------------	-------------------	---	--

5. Generator's Name and Mailing Address Spic & Span Cleaners Inc. 2101 4th Ave, Suite 310 Seattle, WA 98121 Generator's Phone: 206-682-3628	Generator's Site Address (if different than mailing address) Spic and Span Cleaners Inc. 652 S. Dearborn St. Seattle WA 98134
---	--

6. Transporter 1 Company Name NRC	U.S. EPA ID Number CAR000030114
--------------------------------------	------------------------------------

7. Transporter 2 Company Name Union Pacific	U.S. EPA ID Number NED001792910
--	------------------------------------

8. Designated Facility Name and Site Address Chemical Waste Management, Inc. 17629 Cedar Springs Lane Arlington, OR 97812-9709 Facility's Phone: 541-454-2643	U.S. EPA ID Number ORD039452353
---	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
		No.	Type			
1	UN3077 Waste Environmentally Hazardous Substance Solid, N.P.S. 9, III (F002)	01	CM	25940	P	F002
2						
3						
4						

14. Special Handling Instructions and Additional Information
 1. OR342959; LFO4 - Bulk F-listed IDW S.1; ERG = 171; RQ = 10165
 E/R/P = ChemTree # CCN24117 Container #: WMXU 8758

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/Officer's Printed/Typed Name Daniel Beckwith on behalf of SPK NSPAN	Signature 	Month 9	Day 10	Year 19
--	---------------	------------	-----------	------------

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 Michael Courtney	Signature 	Month 9	Day 10	Year 19
Transporter 2 Printed/Typed Name JK	Signature 	Month 9	Day 10	Year 19

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. H132	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 Morgan Wolf	Signature 	Month 09	Day 19	Year 19
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U72502

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST
(Continuation Sheet)

21. Generator ID Number

WA027473974

22. Page

2

23. Manifest Tracking Number

020121164 JJK

24. Generator's Name

Spic + Span Cleaners, Inc

25. Transporter 3 Company Name

CRU

U.S. EPA ID Number

OKD 987173457

26. Transporter _____ Company Name

U.S. EPA ID Number

27a. HM 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

No. Type

29. Total Quantity

30. Unit Wt./Vol.

31. Waste Codes

GENERATOR

32. Special Handling Instructions and Additional Information

Wmxu 8758

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name

Jan L Gabbey

Signature

Paul Gabbey

Month Day Year

9/16/19

34. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

TRANSPORTER

DESIGNATED FACILITY

472559

9/15

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number W A D O 2 7 4 7 3 9 7 4	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 013781916 FLE		
5. Generator's Name and Mailing Address SPIC & SPAN CLEANERS INC 2101 4th Ave, Suite 310 Seattle WA 98121 Generator's Phone: (206) 892-3628		Generator's Site Address (if different than mailing address) SPIC & SPAN CLEANERS INC 852 S DEARBORN ST SEATTLE WA 98134-1393					
6. Transporter 1 Company Name NRC		U.S. EPA ID Number C A R 0 0 0 0 3 0 1 1 4					
7. Transporter 2 Company Name NORTH PACIFIC		U.S. EPA ID Number N E D 8 8 1 7 9 2 9 1 0					
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2843		U.S. EPA ID Number O R D 0 8 9 4 5 2 3 5 3					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
X	1. UN3077 WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S., III, (F002)	01	CM	30180	P	F002	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. OR342959;LF04 - Bulk F-Listed IDW Soil; ERG=171;RQ=10lbs E/R/P=CHEMTREC#CCN24117 Container# WMXU 87017 30180P							
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/Officer's Printed/Typed Name Daniel Black on behalf of Spic & Span		Signature [Signature]		Month Day Year 09 12 19			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Michael County		Signature [Signature]		Month Day Year 9 12 19			
Transporter 2 Printed/Typed Name JR		Signature [Signature]		Month Day Year 9 12 19			
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ 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. H132		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 Morgan Wolf		Signature [Signature]		Month Day Year 09 12 19			

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

472683

X 9/14

CWMI

Please print or type.

KA 10-2-19

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number W A D D 2 7 4 7 3 9 7 4	2. Page 1 of 2	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 013781915 FLE
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5. Generator's Name and Mailing Address SPIC & SPAN CLEANERS INC 2101 4th Ave, Suite 310 Seattle WA 98121 Generator's Phone: (206) 882-3628	Generator's Site Address (if different than mailing address) SPIC & SPAN CLEANERS INC 852 S DEARBORN ST SEATTLE WA 98134-1393
---	--

6. Transporter 1 Company Name NRC	U.S. EPA ID Number C A R 0 0 0 0 3 0 1 1 4
--------------------------------------	---

7. Transporter 2 Company Name UNION PACIFIC RAILROAD	U.S. EPA ID Number N E D 0 0 7 9 2 9 1 0
---	---

8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17828 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2843	U.S. EPA ID Number O R D 0 8 9 4 5 2 3 5 3
--	---

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes		
		No.	Type					
X	UN3077 WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S., 9.III. (F002)	01	CM	29160	P	F002		
			KR	10-1-19				

14. Special Handling Instructions and Additional Information
1. OR342959;LFD4 - Bulk F-Listed IDW Soil; ERG=171;RQ=10lbs
E/R/P=CHEMTREC#CCN24117 Container# WMXU 8784

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) (i) (I am a large quantity generator) or (b) (I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Daniel Bruck on behalf of Spic & Span
Signature: [Signature]
Month Day Year: 09/17/19

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: Michael Courtney	Signature: [Signature]	Month Day Year: 9/17/19
Transporter 2 Printed/Typed Name: SR	Signature: [Signature]	Month Day Year: 9/17/19

18. Discrepancy

18a. Discrepancy Indication Space: Quantity KR 10-1-19 Type Residue Partial Rejection Full Rejection
H.1, I.2.1, Approved to amend weight per Scott St. John/Director of Project Services/DH Environmental

18b. Alternate Facility (or Generator): _____ Manifest Reference Number: _____ U.S. EPA ID Number: _____

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. H132	2.	3.	4.
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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: Morgan Wolf
Signature: [Signature]
Month Day Year: 9/20/19

472740

9/19

PS 10-3-19

Form Approved. OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number WAD027473974	2. Page 1 of 2	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 013781917 FLE
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5. Generator Name and Address SPIC & SPAN CLEANERS INC 2101 4th Ave, Suite 310 Seattle WA 98121 Generator's Phone: (206) 892-3628	Generator's Site Address (if different than mailing address) SPIC & SPAN CLEANERS INC 852 S DEARBORN ST SEATTLE WA 98134-1393
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6. Transporter 1 Company Name NRC	U.S. EPA ID Number CAR000030114
--------------------------------------	------------------------------------

7. Transporter 2 Company Name UNION PACIFIC RAILROAD	U.S. EPA ID Number NE0001792910
---	------------------------------------

8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17628 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2643	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		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes		
		No.	Type					
X	1. UN3077 WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S., 9, III, (F002)	01	CM	13 to	T	F002		
	2.			KR 10-1-19				
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. OR342859;LF04 - Bulk F-Listed IDW Soil; ERG=171;RQ=10lbs
E/R/P=CHEMTREC#CCN24117 Container# WM 8663 26980P.

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: Daniel Black on behalf of Spic & Span
Signature: [Signature]
Month Day Year: 9 18 19

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 DALE MUCK	Signature [Signature]	Month Day Year 9 18 19
Transporter 2 Printed/Typed Name Stephen Holbrook	Signature [Signature]	Month Day Year 9 18 19

18. Discrepancy
18a. Discrepancy Indication Space Quantity KR 10-1-19 Type Residue Partial Rejection Full Rejection
11. I Approved to amend weight per Scott St. John/Director of Project Services/OH Environmental.
Manifest Reference Number: _____

16b. 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. H132	2.	3.	4.
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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: Margaret Wolf Signature: [Signature] Month Day Year: 9 27 19

472740

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST
(Continuation Sheet)

21. Generator ID Number
WADO27473974

22. Pages
2

23. Manifest Tracking Number
013781917 FLE

24. Generator's Name
SPCW + SPERN Cleaners

25. Transporter 3 Company Name

CRL

U.S. EPA ID Number
ORD987173467

26. Transporter _____ Company Name

U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		No.	Type					

32. Special Handling Instructions and Additional Information
WMXU 86168

33. Transporter 3 Acknowledgment of Receipt of Materials
 Printed/Typed Name: Jan L. Gabbey Signature: [Signature] Month: 9 Day: 12 Year: 19

34. Transporter Acknowledgment of Receipt of Materials
 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

GENERATOR
TRANSPORTER
DESIGNATED FACILITY

472741

Please print or type.

KA 10-2-19

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number WAD027473974	2. Page 1 of 2	3. Emergency Response Phone (300) 424-9300	4. Manifest Tracking Number 020121162 JJK
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5. Generator's Name and Mailing Address SPAC 65 OFFICE SUPPLIES INC. 2101 4th Ave. Suite. 310 Seattle, WA 98121 (206) 682-3628	Generator's Site Address (if different than mailing address) 652 S DEARBORN ST SEATTLE, WA, 98134-1393
--	--

Generator's Phone: _____

6. ~~Department Name~~ **KA 10-2-19 per Amanda Payne/SR Operations Specialist**

NRC

U.S. EPA ID Number
CAR000030114

7. ~~Generator's Primary Name~~ **Management of the Northwest - UNION PACIFIC RAILROAD**

U.S. EPA ID Number
NEV001792910

8. Designated Facility Name
**WESTERN WASTE MANAGEMENT OF THE NORTHWEST
17529 CEDAR SPRINGS LANE
ARUNGTION, OR 97012
(541) 434-2543**

U.S. EPA ID Number
ORD089452353

Facility's Phone: _____

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol	13. Waste Codes		
		No.	Type					
1.	NA3077, Hazardous Waste, solid, n.o.s., 9, PG III, (F002)	01	CM	14	T	F002		
2.			KR	10-1-19				
3.								
4.								

14. Special Handling Instructions and Additional Information

1. **OR342959 - Bulk F-Listed IDW Soil, ERG: (171), RQ-10/lbs
E/R/P-CHEMTRAC/CCM24117**

Container # **WMXU 8659**

28480P.

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/Officer's Printed/Typed Name: **Dave Black on behalf of SPAC 65**

Signature: *[Signature]*

Month Day Year: **10 18 19**

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: **DALE MUCK**

Signature: *[Signature]*

Month Day Year: **9 18 19**

Transporter 2 Printed/Typed Name: _____

Signature: _____

Month Day Year: _____

18. Discrepancy **Jason Stewart**

18a. Discrepancy Indication Space Quantity **KR 10-1-19** Type Residue Partial Rejection Full Rejection

11.1 Approved to amend weight per Scott St. John/Director of Project Services/DH Environmental.

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. H132	2.	3.	4.
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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: **Morgan Wolf**

Signature: *[Signature]*

Month Day Year: **9 20 19**

472741

Please print or type.

Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST
(Continuation Sheet)

1. Generator ID Number
WHD 2747 3974

22. Page
2

23. Manifest Tracking Number
02013 1102 JJK

24. Generator's Name

Splc + Span Cleaners

25. Transporter 3 Company Name

CRL

U.S. EPA ID Number

ARD 987173457

26. Transporter _____ Company Name

U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit WL/Vol.	31. Waste Codes		
		No.	Type					

32. Special Handling Instructions and Additional Information
WMXU 8659

GENERATOR
TRANSPORTER
DESIGNATED FACILITY

33. Transporter 3 Acknowledgment of Receipt of Materials
 Printed/Typed Name: Jan L Gabbey
 Signature: Jan L Gabbey
 Month: 19, Day: 4, Year: 19

34. Transporter Acknowledgment of Receipt of Materials
 Printed/Typed Name: _____
 Signature: _____
 Month: _____ Day: _____ Year: _____

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

472952

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number WAD027473974	2. Page 1 of 2	3. Emergency Response Phone (800) 337-7455	4. Manifest Tracking Number 020121123 JJK
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5. Generator's Name and Mailing Address Spic & Span Cleaners, Inc. 2101 4th Avenue, Ste. 310 Seattle, WA 98121	Generator's Site Address (if different from mailing address) 652 Dearborn St. Seattle, WA, 98134
Generator's Phone: (206) 682-3628 Attn: Joel Ostroff	

6. Transporter 1 Company Name DH Environmental Inc.	U.S. EPA ID Number WAH000047217
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7. Transporter 2 Company Name Chemical Waste Management of the Northwest	U.S. EPA ID Number ORD088452353
--	---

8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17628 Cedar Springs Lane Arlington, OR 97002	U.S. EPA ID Number ORD088452353
Facility's Phone: (503) 456-2633	

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit. WL/Vol.	13. Waste Codes	
		No.	Type				
1.	DN3821, Waste Toxic Solid, organic, n.o.s., 5.1, PG III, (tetrachloroethylene, F002) none Shipped	0	0	0	0		
2.	UN1268, Petroleum Products, n.o.s., 3, PG III, (petroleum naphtha)	1	DN	40	G		
3.	NA3082, Hazardous Waste, liquid, n.o.s., 9, PG III, (tetrachloroethylene, F002)	8	DN	430	G		
4.	Material Not Regulated by DOT (Washington State Dangerous Waste Only, toxic)	1	DF	3	G		

14. Special Handling Instructions and Additional Information
- OR343075 - F001 - 1 cubic yard sludge, ERG: (154)
 - OR343076 - F001 - combustible DF-2000 Fluid, ERG: (128) - 95 gal
 - OR343079 - STAB15 - F-Listed water meeting LDR's, ERG: (171) - 55 gal
 - OR343081 - STAB15 - Acet. Ink Resin Film Debris - 7 gal
- WMA 980400*

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/Officer's Printed/Typed Name Jeremy Porter	Signature <i>Jeremy Porter</i>	Month Day Year 10/20/19
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16. International Shipments	<input type="checkbox"/> Import to U.S.	<input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
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17. Transporter Acknowledgment of Receipt of Materials			
Transporter 1 Printed/Typed Name Leonard J. Warnock	Signature <i>Leonard J. Warnock</i>	Month Day Year 09/20/19	
Transporter 2 Printed/Typed Name Pinola	Signature <i>Pinola</i>	Month Day Year 9/20/19	

18. Discrepancy					
18a. Discrepancy Indication Space	<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection

18b. Alternate Facility (or Generator)	Manifest Reference Number: U.S. EPA ID Number
--	--

Facility's Phone:	U.S. EPA ID Number
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. H061	3. H132	4. H100


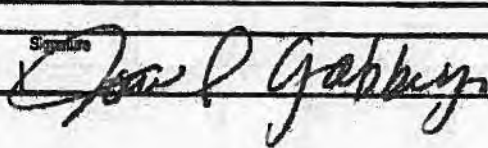
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a			
Printed/Typed Name John Dimp	Signature <i>John Dimp</i>	Month Day Year 10/2/19	

472952

CWMI

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number WAD027473974	22. Page of 2	23. Manifest Tracking Number 020121123 .JK			
24. Generator's Name SPICE & SPAN CLEANERS, INC							
25. Transporter <u>3</u> Company Name UPRR			U.S. EPA ID Number NED0017922010 SD 10-1-19				
26. Transporter <u>4</u> Company Name COLUMBIA RIDGE LANDFILL			U.S. EPA ID Number ORD9877173457				
GENERATOR	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
			No.	Type			
32. Special Handling Instructions and Additional Information CONTAINER # WMXU 080400							
DESIGNATED FACILITY	33. Transporter <u>1</u> Acknowledgment of Receipt of Materials						
	Printed/Typed Name <u>JR</u>	Signature 		Month <u>19</u>	Day <u>23</u>	Year <u>19</u>	
	34. Transporter <u>4</u> Acknowledgment of Receipt of Materials						
	Printed/Typed Name <u>Jan L Gabbey</u>	Signature 		Month <u>19</u>	Day <u>26</u>	Year <u>19</u>	
35. Discrepancy							
38. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							

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Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number WAD027473974	2. Page 1 of 2	3. Emergency Response Phone (800) 337-7455	4. Manifest Tracking Number 020121159 JJK
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5. Generator's Name and Mailing Address Spic N Span Cleaners, Inc. 2101 4 th Avenue, Ste. 310 Seattle, WA 98121 Generator's Phone: (206) 682-3628 Attn: Joel Ostroff	Generator's Site Address (if different than mailing address) 652 Dearburn St. Seattle, WA, 98134
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6. Transporter 1 Company Name DT Environmental Inc.	U.S. EPA ID Number WA10R00047217
---	--

7. Transporter 2 Company Name Chemical Waste Management of the Northwest	U.S. EPA ID Number ORD089452353
--	---

8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17620 Cedar Springs Lane Arlington, OR 97812 Facility's Phone: (541) 454-2643	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		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
RQ	1. UN2810, Waste Toxic Liquids, organic, n.d.s., 6.1, PG III, (tetrachloroethylene, F002)	03	DM	900	P	F002		
RQ	2. UN2811, Waste Toxic Liquid, organic, n.d.s., 6.1, PG III, (tetrachloroethylene, F002)	01	DM	150	P	F002		
K	3. NA1760, Waste Compounds, cleaning liquid, 8, PG II	01	DF	3	P	D002		
K	4. NA1760, Waste Compounds, cleaning liquid, 8, PG II none shipped	∅	∅	∅	∅	D002		

14. Special Handling Instructions and Additional Information: **Flammable Solvent, ERG: (153)**
- OR343092 - INC01, F-Listed dry cleaner sludge, ERG: (154) 306
 - OR343095 - LP12, Lab Pack alkaline products, ERG: (154) 54
 - OR343097 - LP12, Lab Pack acid products, ERG: (154)

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/Offorer's Printed/Typed Name Daniel Eberhard on behalf of Spic N Span	Signature <i>[Signature]</i>	Month 07	Day 24	Year 19
---	---------------------------------	--------------------	------------------	-------------------

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 Leonard J. Warnock	Signature <i>[Signature]</i>	Month 09	Day 24	Year 19
Transporter 2 Printed/Typed Name KEE GAURAN	Signature <i>[Signature]</i>	Month 9	Day 24	Year 19

18. Discrepancy

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

18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____

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. H040	2. H1040	3. H040	4. _____
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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 William Dumbo	Signature <i>[Signature]</i>	Month 10	Day 11	Year 19
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GENERATOR
TRANSPORTER
DESIGNATED FACILITY

473198

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number WAD027473974	22. Page 2 of 2	23. Manifest Tracking Number 0202211591K		
24. Generator's Name Splix'n Span Cleaners, Inc.						
25. Transporter <u>3</u> Company Name UPRR		U.S. EPA ID Number ED 10-10-19 NED0017927910				
26. Transporter <u>4</u> Company Name COLUMBIA RIDGE LANDFILL		U.S. EPA ID Number ORD 9877173457				
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
		No.	Type			
K	5. UN2810, Waste Toxic Liquid, organic, n.o.s., 6.1, PG III, Lab Pack - see packing list	01	DF	3	P	J228 D040
	6. Material Not Regulated by DOR, (Washington State Dangerous Waste only, toxic) (Lab Pack - see packing list) <i>none shipped.</i>	Ø	Ø	Ø	Ø	W102
32. Special Handling Instructions and Additional Information 5. ☐ R343054 -- LP 10, ERG: (158), drum SN5C-102 59 5. ☐ R343056 -- LP 03, drum drum-104						
DESIGNATED FACILITY	33. Transporter <u>3</u> Acknowledgment of Receipt of Materials		Printed/Typed Name		Signature	Month Day Year
	34. Transporter <u>4</u> Acknowledgment of Receipt of Materials		Printed/Typed Name		Signature	Month Day Year
35. Discrepancy						
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

Please print or type.

Form Approved. OMB No. 2050-0039

473377

05-11-22-19

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD027473974	2. Page 1 of 2	3. Emergency Response Phone (800) 337-7455	4. Manifest Tracking Number 020121135 JJK		
5. Generator's Name and Mailing Address Spic N Span Cleaners Corp. 2101 4th Ave., Ste. 310 Seattle, WA 98121 Generator's Phone: (206) 682-3628 Attn: Joel Ostroff				Generator's Site Address (if different than mailing address) Spic N Span Cleaners Co. 652 S Dearborn St. Seattle, WA 98134			
6. Transporter 1 Company Name NRC				U.S. EPA ID Number CAR000030114			
7. Transporter 2 Company Name UPRR				U.S. EPA ID Number NEB001792910			
8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17629 Cedar Springs Lane Arlington, OR 97112 Facility's Phone: (541) 454-2643				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		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
K	1. NA3077, Hazardous Waste, Solid, n.o.s., 9, PG III, (tetrachloroethylene, trichloroethylene)	1	20 (20)			F002	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. OR342959 - LFO4 Bulk F-listed IDW Sol, ERG: (171) <i>JP</i> <i>TRUCK 2268 26720P.</i>							
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/Offlor's Printed/Typed Name <i>Joel Ostroff</i>				Signature <i>Joel Ostroff</i>		Month Day Year 10 14 19	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Michael Courtney				Signature <i>Michael Courtney</i>		Month Day Year 10 14 19	
Transporter 2 Printed/Typed Name JR				Signature <i>JR</i>		Month Day Year 10 14 19	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____							
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. H132		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 Morgan Dot				Signature <i>Morgan Dot</i>		Month Day Year 10 18 19	

Please print or type

673377

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number

WAD 027473974

22. Page

2

23. Manifest Tracking Number

020121135 JK

24. Generator's Name

Splw n Span Cleaners Corp.

25. Transporter

Company Name

PS 10-22-19

CRL

U.S. EPA ID Number

ORD 98 717 3457

26. Transporter

Company Name

U.S. EPA ID Number

27a. HM

27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

No.

Type

29. Total Quantity

30. Unit Wt./Vol.

31. Waste Codes

GENERATOR

32. Special Handling Instructions and Additional Information

PS 10-22-19

WMXU 8712

33. Transporter

Acknowledgment of Receipt of Materials

Printed/Typed Name

Jan L Gabbey

Signature

[Signature]

Month

Day

Year

Month

Day

Year

34. Transporter

Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

TRANSPORTER

DESIGNATED FACILITY

DESIGNATED FACILITY TO GENERATOR

473505

10/22

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD027473974	2. Page 1 of 1	3. Emergency Response Phone (800) 337-7455	4. Manifest Tracking Number 020121132 JJK				
5. Generator's Name and Mailing Address Spic N Span Cleaners Corp. 2101 4 th Ave., Ste. 310 Seattle, WA 98121 Generator's Phone: (206) 682-3628 Attn: Joel Ostroff				Generator's Site Address (if different than mailing address) Spic N Span Cleaners Co. 652 S Dearborn St. Seattle, WA 98134					
6. Transporter 1 Company Name NRC				U.S. EPA ID Number CAR000030114					
7. Transporter 2 Company Name UPRR				U.S. EPA ID Number NEB001792910					
8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17629 Cedar Springs Lane Arlington, OR 97812 Facility's Phone: (541) 454-2643				U.S. EPA ID Number ORD089452353					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		1. NA3077, Hazardous Waste, Solid, n.o.s., 9, PG III, (tetrachloroethylene, trichloroethylene)		No.	Type	27360	P	F002	
		2.		KR 10-24-19					
		3.							
		4.							
14. Special Handling Instructions and Additional Information 1. OR342959 - LFO4 Bulk F-listed IDW Soil, ERG: (171) WMXU 8817									
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 Joel Ostroff on behalf of Spic N Span				Signature <i>[Signature]</i>				Month Day Year 10 21 19	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name RICHARDO ALUMA				Signature <i>[Signature]</i>				Month Day Year 10 21 19	
Transporter 2 Printed/Typed Name JL				Signature <i>[Signature]</i>				Month Day Year 10 21 19	
18. Discrepancy									
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity KR 10-24-19 <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection 10.1, 11.1, 12.1 Approved to amend quantity per Scott St. John/Director of Project Services/DH Environmental.									
18b. Alternate Facility (or Generator) U.S. EPA ID Number									
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. H132		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 <i>[Signature]</i>				Signature <i>[Signature]</i>				Month Day Year 10 24 19	

4TT3505

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number WAB0274739174	22. Page 2 of 2	23. Manifest Tracking Number 020121132 JJK		
24. Generator's Name Spic + Span Cleaners Corp.						
25. Transporter <u>3</u> Company Name CKL			U.S. EPA ID Number 0254987173457			
26. Transporter _____ Company Name			U.S. EPA ID Number			
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
		No.	Type			
32. Special Handling Instructions and Additional Information Wmxu 8817						
33. Transporter <u>3</u> Acknowledgment of Receipt of Materials Printed/Typed Name: Jan L Gabbey Signature: Jan L Gabbey Month: 12 Day: 25 Year: 14						
34. Transporter _____ Acknowledgment of Receipt of Materials Printed/Typed Name: Signature: Month: Day: Year:						
35. Discrepancy						
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

473555

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD027473974	2. Page 1 of 2x	3. Emergency Response Phone (800) 337-7455	4. Manifest Tracking Number 020121133 JJK		
5. Generator's Name and Mailing Address Spic N Span Cleaners Corp. 2101 4 th Ave., Ste. 310 Seattle, WA 98121 Generator's Phone: (206) 682-3628 Attn: Joel Ostroff				Generator's Site Address (if different than mailing address) Spic N Span Cleaners Co. 652 S Dearborn St. Seattle, WA 98134			
6. Transporter 1 Company Name NRC		U.S. EPA ID Number CAR 000030114		7. Transporter 2 Company Name UPRR			U.S. EPA ID Number NE D 001792910
8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17629 Cedar Springs Lane Arlington, OR 97112 Facility's Phone: (541) 454-2643				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		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1	NA3077, Hazardous Waste, Solid, n.d.s., 9, PG III, (tetrachloroethylene, trichloroethylene)	1	CM	20	Y	F002	
2				PS 11-19			
3							
4							
14. Special Handling Instructions and Additional Information 1. OR342959 - LF04 Bulk F-listed IDW Soil, ERG: (171) WM XU 8799 30580P							
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/Offoror's Printed/Typed Name Daniel Roberts on behalf of SPIC N SPAN				Signature <i>[Signature]</i>		Month Day Year 10 23 19	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name RICARDO ALUMA				Signature <i>[Signature]</i>		Month Day Year 10 23 19	
Transporter 2 Printed/Typed Name Dea Ther Malo				Signature <i>[Signature]</i>		Month Day Year 10 23 19	
18. Discrepancy							
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Quantity entered to match what was received. PS 10-30-19 Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)						U.S. EPA ID Number	
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. H132		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 Pat Slidew				Signature <i>[Signature]</i>		Month Day Year 10 30 19	

GENERATOR

INTL

TRANSPORTER

SIGNATED FACILITY

473555

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number

WA1027473974

22. Page

2

23. Manifest Tracking Number

030131133 JK

24. Generator's Name

Spic + Span Cleaners, Corp

25. Transporter Company Name

CKL

U.S. EPA ID Number

ORD 987173457

26. Transporter Company Name

U.S. EPA ID Number

27a HM 27b U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

No. Type

29. Total Quantity

30. Unit Wt./Vol.

31. Waste Codes

32. Special Handling Instructions and Additional Information

WMXU 8799

33. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Jan L Gabben

Signature

Paul Gabben

Month Day Year

10 24 19

34. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

GENERATOR

TRANSPORTER

DESIGNATED FACILITY TO GENERATOR

473783

Please print or type:

AS 11-20-19

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD027473974	2. Page 1 of 21	3. Emergency Response Phone (800) 337-7455	4. Manifest Tracking Number 020121134 JJK		
5. Generator's Name and Mailing Address Spic N Span Cleaners Corp. 2101 4 th Ave., Ste. 310 Seattle, WA 98121 Generator's Phone: (206) 682-3628 Attn: Joel Ostroff				Generator's Site Address (if different than mailing address) Spic N Span Cleaners Co. 652 S Dearborn St. Seattle, WA 98134			
6. Transporter 1 Company Name NRC Environmental				U.S. EPA ID Number CAR000030114			
7. Transporter 2 Company Name UNION PACIFIC RAILROAD				U.S. EPA ID Number WED001792910			
8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17529 Cedar Springs Lane Arlington, OR 97812 Facility's Phone: (541) 454-2643				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		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1	NA3077, Hazardous Waste, Solid, n.o.s., 9, PG III, (tetrachloroethylene, trichloroethylene)	1	cm	20	Y	F002	
2							
3							
4							
14. Special Handling Instructions and Additional Information 1. OR342959 - LF04 Bulk F-listed IDW Sol, ERG: (171) WMXU-8578 31080P							
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 Daniel Beckwith on behalf of Spic N Span				Signature 		Month Day Year 10 29 19	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name RICARDO ALUMA				Signature 		Month Day Year 10 29 19	
Transporter 2 Printed/Typed Name JASON STEVENS				Signature 		Month Day Year 10 29 19	
18. Discrepancy							
18a Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____							
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. H132		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 Morgan L. B. F.				Signature 		Month Day Year 11 14 19	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

11-14-19

473974

11/13

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD027473974	2. Page 1 of 1	3. Emergency Response Phone (800) 327-7455	4. Manifest Tracking Number 020121142 JJK				
5. Generator's Name and Mailing Address Spic N Span Cleaners Corp. 2101 4 th Ave., Ste. 310 Seattle, WA 98121		Generator's Site Address (if different than mailing address) Spic N Span Cleaners Co. 652 S Dearborn St Seattle, WA 98134							
Generator's Phone: (206) 682-3628 Attn: Joel Ostroff									
6. Transporter 1 Company Name NRC				U.S. EPA ID Number CAR000030114					
7. Transporter 2 Company Name Union Pacific				U.S. EPA ID Number NED 001792910					
8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17629 Cedar Springs Lane Arlington, OR 97812				U.S. EPA ID Number ORD089452353					
Facility's Phone: (541) 454-2643									
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
				No.	Type				
	1. NA3077, Hazardous Waste, Solid, n.o.s., 9, PG III, (tetrachloroethylene, trichloroethylene)			1	20	20	Y	FO02	
	2.								
	3.								
4.									
14. Special Handling Instructions and Additional Information 1. OR342959 - LF04 Bulk F-listed IDW Soil, ERG: (371) WMXU 8680									
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 David Bobrook on behalf of Spic N Span				Signature 			Month Day Year 11 12 19		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Michael Courtney				Signature 			Month Day Year 11 12 19		
Transporter 2 Printed/Typed Name JR				Signature 			Month Day Year 11 12 19		
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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. 4132		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 John D. Miller				Signature 			Month Day Year 11 12 19		

473976

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Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number WAD 027473974	22. Page 3	23. Manifest Tracking Number 020121142JJK			
24. Generator's Name Span Cleaners Co.							
25. Transporter <u>3</u> Company Name CR				U.S. EPA ID Number OKD 98717 3457			
26. Transporter _____ Company Name				U.S. EPA ID Number			
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit WT./Vol.	31. Waste Codes	
		No.	Type				
				20			
32. Special Handling Instructions and Additional Information WMLU 8680							
33. Transporter <u>3</u> Acknowledgment of Receipt of Materials							
Printed/Typed Name Jan L Gabbey		Signature Jan L Gabbey			Month 11	Day 14	Year 19
34. Transporter _____ Acknowledgment of Receipt of Materials							
Printed/Typed Name		Signature			Month	Day	Year
35. Discrepancy							
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
H152							

GENERATOR

TRANSPORTER

ACILITY

DESIGNAT

Please print or type.

Form Approved. OMB No. 2050-0039

474262

12/19

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD027473974	2. Page 1 of 1	3. Emergency Response Phone (800) 337-7455	4. Manifest Tracking Number 020121143 JJK		
5. Generator's Name and Mailing Address Spic N Span Cleaners Corp. 2101 4 th Ave., Ste. 310 Seattle, WA 98121 Generator's Phone: (206) 682-3628 Attn: Joel Ostroff				Generator's Site Address (if different than mailing address) Spic N Span Cleaners Co. 652 5 Dearborn St. Seattle, WA 98134			
6. Transporter 1 Company Name NRC					U.S. EPA ID Number CAR000030114		
7. Transporter 2 Company Name Union Pacific Railroad					U.S. EPA ID Number NED001792910		
8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17629 Cedar Springs Lane Arlington, OR 97812 Facility's Phone: (541) 454-2643					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		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1	NA3077, Hazardous Waste, Solid, n.o.s., 9, PG III, (tetrachloroethylene, trichloroethylene)	1	FO CM	20	Y	F002	
2							
3							
4							
14. Special Handling Instructions and Additional Information 1. OR342959 - LFG Bulk F-listed IDW Sol, FRG: (171) WMXU 8815							
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/Offoror's Printed/Typed Name Daniel B. Sebcock on behalf of Spic N Span				Signature <i>[Signature]</i>		Month Day Year 11 26 19	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> 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 Michael Courtney				Signature <i>[Signature]</i>		Month Day Year 11 26 19	
Transporter 2 Printed/Typed Name Michael Courtney JR				Signature <i>[Signature]</i>		Month Day Year 12 4 19	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____							
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. U132		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 Morgan Wolf				Signature <i>[Signature]</i>		Month Day Year 12 11 19	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

4742602

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UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number

WADA27473974

22. Page

2

23. Manifest Tracking Number

020121143 JK

24. Generator's Name

Spic N Span Cleaners

25. Transporter Company Name

3 CRL

U.S. EPA ID Number

OR05987173457

26. Transporter Company Name

U.S. EPA ID Number

27a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

No. Type

29. Total Quantity

30. Unit Wt./Vol.

31. Waste Codes

GENERATOR

32. Special Handling Instructions and Additional Information

Wmxu 8815

TRANSPORTER

33. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Jan L Gubhey

Signature

Jan L Gubhey

Month Day Year

12 9 19

34. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

DESIGNATED FACILITY TO GENERATOR

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

4174593

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number WAD027473974	2. Page 1 of 2	3. Emergency Response Phone (800) 337-7455	4. Manifest Tracking Number 020121364 JJK
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5. Generator's Name and Mailing Address Spic N Span Cleaners Corp. 2101 4 th Ave., Ste. 310 Seattle, WA 98121 Generator's Phone: (206) 682-3628 Attn: Joel Ostroff	Generator's Site Address (if different than mailing address) Spic N Span Cleaners Co. 652 5 th Dearborn St. Seattle, WA 98134
--	--

6. Transporter 1 Company Name DH Environmental Inc.	U.S. EPA ID Number WAH000047217
---	---

7. Transporter 2 Company Name Chemical Waste Management of the Northwest	U.S. EPA ID Number ORD089452353
--	---

8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17529 Cedar Springs Lane Arlington, OR 97812 Facility's Phone: (541) 454-2643	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		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes		
		No.	Type					
X	1. NA3082, Hazardous Waste, Liquid, n.d.s., 9, PG III, (tetrachloroethylene)	14	DM	630	P	F002		
X	2. UN1719, Waste Caustic Alkali-Liquid, n.d.s., 8, PG-III, (Portland Cement, tetrachloroethylene)	Ø	Ø	Ø	Ø	D002	F002	
	3.							
	4.							

14. Special Handling Instructions and Additional Information

- OR343079 - STAB 15, F-listed water meeting LDRs, ERG: (171)
- OR343861 - STAB 02, F-listed caustic concrete cutting slurry, ERG: (154)

WMXU 970847

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/Offoror's Printed/Typed Name <i>David Babcock on behalve of Spic N Span</i>	Signature <i>[Signature]</i>	Month 12	Day 12	Year 19
--	---------------------------------	-------------	-----------	------------

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 <i>Leonard J. Warnock</i>	Signature <i>[Signature]</i>	Month 12	Day 12	Year 19
Transporter 2 Printed/Typed Name <i>G. P. Marla</i>	Signature <i>[Signature]</i>	Month 12	Day 12	Year 19

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. H152	2.	3.	4.
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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 <i>Morgan Wolf</i>	Signature <i>[Signature]</i>	Month 12	Day 30	Year 19
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474593

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number

WAD027473974

22. Page 2 of 2

23. Manifest Tracking Number

020121364 LK

24. Generator's Name

SPICE N SPAN CLEANERS CORP.

25. Transporter 3 Company Name

UNION PACIFIC RAILROAD

U.S. EPA ID Number

NE00017022919

30-19

26. Transporter 4 Company Name

COLUMBIA RIDGE LANDFILL

U.S. EPA ID Number

ORD9877173457

27a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

No.

Type

29. Total Quantity

30. Unit Wt./Vol.

31. Waste Codes

GENERATOR

32. Special Handling Instructions and Additional Information

CONTAINER # WMXU 970847

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name

JR

Signature

[Signature]

Month Day Year

12 19 19

34. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name

Jan L Gabbey

Signature

[Signature]

Month Day Year

12 24 17

35. Discrepancy

DESIGNATED FACILITY TO GENERATOR

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

474735

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD027473974	2. Page 1 of 1	3. Emergency Response Phone (800) 337-7455	4. Manifest Tracking Number 020121361 JJK					
5. Generator's Name and Mailing Address Spic N Span Cleaners Corp. 2101 4 th Ave., Ste. 310 Seattle, WA 98121 Generator's Phone: (206) 682-3628 Attn: Joel Ostroff			Generator's Site Address (if different than mailing address) Spic N Span Cleaners Co. 652 S Dearborn St. Seattle, WA 98134							
6. Transporter 1 Company Name DH Environmental Inc.					U.S. EPA ID Number WAH000047217					
7. Transporter 2 Company Name Chemical Waste Management of the Northwest					U.S. EPA ID Number ORD089452353					
8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17629 Cedar Springs Lane Arlington, OR 97812 Facility's Phone: (541) 454-2643					U.S. EPA ID Number ORD089452353					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	X	1. UN1719, Waste Caustic Alkali Liquid, n.d.s., 8, PG III, (Portland cement, tetrachloroethylene)		01	DM	150	P	REFUSED F002	D002	
		2.								
		3.								
		4.								
14. Special Handling Instructions and Additional Information 1. OR 343861 - STAB 02, F-listed caustic concrete cutting slurry, ERG: (154) Kf 11/20/20										
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/Offoror's Printed/Typed Name <i>Joel Ostroff</i>				Signature <i>[Signature]</i>				Month Day Year 12 20 19		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____										
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name Leonard J. Warnock				Signature <i>[Signature]</i>				Month Day Year 12 20 19	
Transporter 2 Printed/Typed Name G. Pivota				Signature <i>[Signature]</i>				Month Day Year 12 20 19		
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input checked="" type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection 13.1 Removed F002 & 14.1 Removed F-listed Code 05 Analytical det. determined that there was no F codes per Scott St. Jol. Director of Project Services / DH Environmental. Kf 11/20/20									
	18b. Alternate Facility (or Generator)					Manifest Reference Number: _____ U.S. EPA ID Number _____				
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 <i>[Signature]</i>				Signature <i>[Signature]</i>				Month Day Year 1 8 20		

Please print or type.

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474735

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD027473974	2. Page 1 of 1	3. Emergency Response Phone (800) 337-7455	4. Manifest Tracking Number 020121361 JJK		
5. Generator's Name and Mailing Address Spic N Span Cleaners Corp. 2101 4 th Ave., Ste. 310 Seattle, WA 98121 Generator's Phone: (206) 682-3628 Attn: Joel Ostroff		Generator's Site Address (if different than mailing address) Spic N Span Cleaners Co. 652 S Dearborn St. Seattle, WA 98134					
6. Transporter 1 Company Name DR Environmental Inc.		U.S. EPA ID Number WAH000047217					
7. Transporter 2 Company Name Chemical Waste Management of the Northwest		U.S. EPA ID Number ORD089452353					
8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17629 Cedar Springs Lane Arlington, OR 97812 Facility's Phone: (541) 454-2643		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		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. UN1719, Waste Caustic Alkali Liquid, n.o.s., 8, PG III, (Portland cement, tetrachloroethylene)	01	DM	150	P	F002	D002
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. OR 343861 - 5/18/02, F-listed caustic concrete cutting slurry, ERG: (154) K 112020							
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 <i>Joel Ostroff</i>				Signature <i>[Signature]</i>		Month Day Year 12 20 19	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <i>Leonard J. Warnock</i>				Signature <i>[Signature]</i>		Month Day Year 12 20 19	
Transporter 2 Printed/Typed Name <i>G. Puntka</i>				Signature <i>[Signature]</i>		Month Day Year 12 20 19	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input checked="" type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection <i>150 removed F002 & 140 removed D listed code as Analytical determined that there was no F002 per Scott's Lab. Director of Project believes this information is accurate.</i>							
18b. Alternate Facility (or Generator) _____ Manifest Reference Number: _____ 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

INT'L

TRANSPORTER

DESIGNATED FACILITY

Please print or type.

Form Approved. OMB No. 2050-0039

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mudlo-23-20
6/21

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD027479974	2. Page 1 of 2	3. Emergency Response Phone (206) 337-7455	4. Manifest Tracking Number 020121287 JJK			
5. Generator's Name and Mailing Address Spic N Span Cleaners Corp Inc 2101 4th Ave, Ste. 310 Seattle, WA 98121 (206) 441-1080 Attn: Joel Ostroff		Generator's Street Address (if different from mailing address) Spic N Span Cleaners Corp Inc 852 S Dearborn St Seattle, WA 98134						
6. Transporter 1 Company Name NRC Environmental Services		U.S. EPA ID Number WAH000036171						
7. Transporter 2 Company Name Union Pacific Railroad		U.S. EPA ID Number NED001792910						
8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17629 Cedar Springs Lane Arlington, OR 97112 Facility's Phone: (541) 454-2543		U.S. EPA ID Number ORD089452353						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1. UN3077, Hazardous Waste, solid, no.s., 9 PG III, (tetrachloroethylene, trichloroethylene)	No. 1	Type CM	20 15700 mudlo-21-20	Y	F02	
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information 1. OR342959 -IF04, BJK Listed DW soil, 99G: (171) Container # WMXU 8774 15700P.								
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 Baxter Cell		Signature B Cell		Month Day Year 06/18/2020				
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Chad Bublitz		Signature Chad Bublitz		Month Day Year 06/19/20				
Transporter 2 Printed/Typed Name JR		Signature JR		Month Day Year 6/19/20				
18. Discrepancy								
18a. Discrepancy Indication Space: <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator)				Manifest Reference Number: _____ 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. H132		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 Morgan H. B...		Signature Morgan H. B...		Month Day Year 06/24/20				

Please print or type.

476915

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number WAD027-473974		22. Page 2-2	23. Manifest Tracking Number 020121287 JJK	
24. Generator's Name Spic N Spam Cleaners						
25. Transporter _____ Company Name CRC				U.S. EPA ID Number 10RD98773457		
26. Transporter _____ Company Name				U.S. EPA ID Number		
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit WL/Vol.	31. Waste Codes
		No.	Type			
32. Special Handling Instructions and Additional Information						
33. Transporter <u>3</u> Acknowledgment of Receipt of Materials						
Printed/Typed Name				Signature	Month	Day Year
34. Transporter Acknowledgment of Receipt of Materials						
Printed/Typed Name Jennifer Williams				Signature 	Month	Day Year 16 2020
35. Discrepancy						
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						

GENERATOR

DESIGNATED FACILITY TRANSPORTER

Please print or type:

47169110

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6/21

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD027473974	2. Page 1 of 2/	3. Emergency Response Phone (800) 337-7455	4. Manifest Tracking Number 020121288 JJK	
5. Generator's Name and Mailing Address Spec. N. Sp. Services, Inc. 201 4th Ave, Ste. 310 Seattle, WA 98121 (206) 441-1080 Attn: Joel Ostroff		Generator's Name and Mailing Address Spec. N. Sp. Services, Inc. 652 S Dearborn St Seattle, WA 98134		5. Generator's Name and Mailing Address (mailing address)		
6. Transporter 1 Company Name NRC Environmental Services		U.S. EPA ID Number WAH00036171		7. Transporter 2 Company Name Union Pacific Railroad		
U.S. EPA ID Number NED001792910		8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17629 Cedar Springs Lane Arlington, OR 9712 (503) 454-2643		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. Type		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
X	1. UN3077, Hazardous Waste, solid, no.s., 9 PG III, tetrachloroethylene, wiclchloroethylene	1		21620	P	F002
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1 CR342959 -LF04, BJK Listed DW sol, BRG: (171)						
Cont. # WMXU 8730						
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 Baxter Call		Signature B Call		Month Day Year 06 19 2020		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Chad Bublitz		Signature Chad Bublitz		Month Day Year 06 19 20		
Transporter 2 Printed/Typed Name JR		Signature JR		Month Day Year 6 19 20		
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____						
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.			
1.	H132					
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 Morgan Wolf		Signature Morgan Wolf		Month Day Year 06 23 20		

Please print or type.

4769116

Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	WAD027473974	2-2	0000126788116

24. Generator's Name
SPIC N SPAN CLEANERS BBC

25. Transporter 3 Company Name CRC U.S. EPA ID Number ORD 98773457

26. Transporter 8 Company Name gpm 6-26-2020 U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		No.	Type					

32. Special Handling Instructions and Additional Information
WMPU 8730

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name Signature Month Day Year

34. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name Signature Month Day Year
KIMBERLY WILLIAMS Jennifer Williams 10 22 20

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Please print or type.

476911

2

Emergency Response Phone (800) 337-7455

Form Approved. OMB No. 2050-0039

6121

UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator ID Number WAD027473974 2. Page 1 of 2 3. Manifest Tracking Number 020121289 JJK

5. Generator's Name and Mailing Address Spic N Span Cleaners Corp Inc 2101 4th Ave. Ste. 310 Seattle, WA 98121 (206) 441-1080 Attn: Joel Ostroff Generator's Name and Mailing Address Spic N Span Cleaners Corp Inc 652 S Dearborn St Seattle, WA 98134

6. Transporter 1 Company Name NRC Environmental Services U.S. EPA ID Number WAH000036171

7. Transporter 2 Company Name Union Pacific Railroad U.S. EPA ID Number NED001792910

8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17629 Cedar Springs Lane Arlington, OR 9812 Facility's Phone: (503) 454-2643 U.S. EPA ID Number CRD089452353

Table with 5 columns: 9a. HM, 9b. U.S. DOT Description, 10. Containers (No., Type), 11. Total Quantity, 12. Unit Wt./Vol., 13. Waste Codes. Row 1: UN3077, Hazardous Waste, solid, no.s., 9 PG III, (tetrachloroethylene, trichloroethylene), 1 CM, 23840, F002.

14. Special Handling Instructions and Additional Information 1. CR342959 -LF04, BJK Listed DW soil, ERG: (171) 23840 p. Cont. # WMXU 8832

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.

Generator's/Offeor's Printed/Typed Name: Baxter Call Signature: B Call Month: 06 Day: 18 Year: 2020

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: Chad Bublitz Signature: Chad Bublitz Month: 06 Day: 19 Year: 20 Transporter 2 Printed/Typed Name: JK Signature: JK Month: 6 Day: 19 Year: 20

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

18b. Alternate Facility (or Generator) Manifest Reference Number: 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. H132 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: Morgan Hays Signature: Morgan Hays Year: 10/6/24/20

476911

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number <u>WADO2747-3974</u>		22. Page <u>2-2</u>	23. Manifest Tracking Number <u>020121289214</u>	
24. Generator's Name <u>EPIC Nspam cleaners/BBCI</u>						
25. Transporter Company Name <u>CRC</u>					U.S. EPA ID Number <u>102D987173457</u>	
26. Transporter Company Name 						
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
		No.	Type			
32. Special Handling Instructions and Additional Information <u>3 curmyu 8832</u>						
DESIGNATED FACILITY TRANSPORTER	33. Transporter Acknowledgment of Receipt of Materials		Printed/Typed Name		Signature	
					Month Day Year	
DESIGNATED FACILITY TRANSPORTER	34. Transporter Acknowledgment of Receipt of Materials		Printed/Typed Name		Signature	
			<u>Jennifer Williams</u>		<u>[Signature]</u>	
DESIGNATED FACILITY	35. Discrepancy				Month Day Year	
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						

Please print or type.

Form Approved. OMB No. 2050-0039

487305

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD027473974	2. Page 1 of 2	3. Emergency Response Phone 800-337-7455	4. Manifest Tracking Number 023708529 JJK			
5. Generator's Name and Mailing Address Spic N Span Cleaners Corp Inc. 852 S Dearborn Street Seattle WA 98134				Generator's Site Address (if different than mailing address) Att: Joel Ostroff 2113				
6. Transporter 1 Company Name DH Environmental Inc.				U.S. EPA ID Number WAH000047217				
7. Transporter 2 Company Name Chemical Waste Management				U.S. EPA ID Number OR0089452353				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC 17829 CEDAR SPRINGS LANE ARLINGTON OR 97812				U.S. EPA ID Number OR0089452353				
Facility's Phone: 503-451-2642								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ NA3077, Hazardous waste, solid, n.o.s. (Tetrachloroethylene, Trichloroethylene) 9, PGIII	003	BA	3000	P	F002		
X	2. NA3077, Hazardous waste, solid, n.o.s. (Tetrachloroethylene, Trichloroethylene) 9, PGIII	002 003	BA	3000	P	F002		
	3. Non-RCRA, non-DOT (Granular Activated Carbon OR349782)	002	DM	1200	P	NONE		
X	4. NA3077, Hazardous waste, solid, n.o.s. (Tetrachloroethylene, Trichloroethylene) 9, PGIII	004	DM	3000	P	F002		
14. Special Handling Instructions and Additional Information 1)(T) Profile# OR349779-INC01 ERG#171 2)(T) Profile# OR349780-LF04/STAB15 ERG#171 3) Profile# OR349782 4)(T) Profile# OR349781-Soil ERG#171 WMXU 980689 non-HAZ								
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/Offoror's Printed/Typed Name Dan Babcock				Signature 		Month 3	Day 9	Year 22
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Jacob Briele				Signature 		Month 3	Day 9	Year 22
Transporter 2 Printed/Typed Name KEITH				Signature 		Month 3	Day 9	Year 22
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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. 1400		2. H132		3. H132		4. H132		
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 John Dink				Signature 		Month 3	Day 30	Year 22

BAT

Please print or type.

Form Approved. OMB No. 2050-0039

487305

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number: WAD027473974	22. Page of 2	23. Manifest Tracking Number 023708529.JJK			
24. Generator's Name SPIC N SPAN CLEANERS CORP INC							
25. Transporter <u>3</u> Company Name: UPRR		U.S. EPA ID Number NED001792910					
26. Transporter <u>3</u> Company Name: COLUMBIA RIDGE LAUDELL DMD 3-28-20		U.S. EPA ID Number ORD887173457 DMD 3-28-20					
GENERATOR	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No. Type		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
32. Special Handling Instructions and Additional Information WIKU 980689							
TRANSPORTER	33. Transporter <u>3</u> Acknowledgment of Receipt of Materials		Signature		Month	Day	Year
	Printed/Typed Name Rosa Harris		[Signature]		13	11	19
DESIGNATED FACILITY	34. Transporter <u>3</u> Acknowledgment of Receipt of Materials		Signature		Month	Day	Year
	Printed/Typed Name		[Signature]				
35. Discrepancy							
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							

Please print or type.

Form Approved. OMB No. 2050-0039

427306

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD027473974	2. Page 1 of 1	3. Emergency Response Phone 800-337-7455	4. Manifest Tracking Number 623708528 JJK				
5. Generator's Name and Mailing Address Spic N Span Cleaners Corp Inc. 852 S Dearborn Street Seattle WA 98134 Generator's Phone: 206 741 1020				Generator's Site Address (if different than mailing address) Att: Joel Ostroff					
6. Transporter 1 Company Name DH Environmental Inc.				U.S. EPA ID Number WAH000047217					
7. Transporter 2 Company Name Chemical Waste Management				U.S. EPA ID Number OR0080152353					
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812 Facility's Phone: 541 454 2843				U.S. EPA ID Number OR0080152353					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1. RQ NA3077, Hazardous waste, solid, n.o.s. (Tetrachloroethylene, Trichloroethylene) 9-PGIII		003 BA		4280	P	F002	
	X	2. NA3077, Hazardous waste, solid, n.o.s. (Tetrachloroethylene, Trichloroethylene) 9-PGIII		004 BA		5278	P	F002	
		3. Non-RCRA, non-DOT (Granular Activated Carbon)						NONE	
		4. NA3077 Hazardous waste, solid n.o.s. (Tetrachloroethylene, Trichloroethylene)						F002	
14. Special Handling Instructions and Additional Information 1(X) Profile# OR349770-INC01 ERG#171 2(X) Profile# OR349780-LF04/STAB15 ERG#171 3(X) Profile# OR348752-Non-H 4) Profile# OR349781-501 WMXU 930689									
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 Jon Babcock					Signature 			Month Day Year 3 9 22	
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
	17. Transporter Acknowledgment of Receipt of Materials								
	Transporter 1 Printed/Typed Name Jacob Briere					Signature 			Month Day Year 3 9 22
Transporter 2 Printed/Typed Name RESTAURANT					Signature 			Month Day Year 3 9 22	
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
	18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____								
	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. H040		2. H132		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 Dawn Dwyer					Signature 			Month Day Year 3 30 22	

BM5

Please print or type:

Form Approved. OMB No. 2050-0039

487306

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number WAD002747907A	22. Page 2 of 2	23. Manifest Tracking Number 023708528 LK			
24. Generator's Name SPIC N SPAN CLEANERS CORP INC							
25. Transporter 3 Company Name UPRR			U.S. EPA ID Number NE0001782010				
26. Transporter Company Name COLUMBIARIDGE LANDFILL DWO 3-28-22			U.S. EPA ID Number GR0987173457 DWO 3-28-22				
GENERATOR	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
			No.	Type			
					4270	P	
					1274	P	
32. Special Handling Instructions and Additional Information							
3 WMXU 980639							
TRANSPORTER	33. Transporter Acknowledgment of Receipt of Materials						
	Printed/Typed Name Alicia HANER				Signature <i>[Signature]</i>		Month Day Year 3 17 22
DESIGNATED FACILITY	34. Transporter Acknowledgment of Receipt of Materials						
	Printed/Typed Name				Signature		Month Day Year
35. Discrepancy							
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							

APPENDIX F

Laboratory Certificates of Analysis

Investigative Derived Waste



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

August 29, 2019

Delia Massey
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suit 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 1908-309

Dear Delia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 27, 2019.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: August 29, 2019
Samples Submitted: August 27, 2019
Laboratory Reference: 1908-309
Project: 060172

Case Narrative

Samples were collected on August 26, 2019 and received by the laboratory on August 27, 2019. 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: August 29, 2019
 Samples Submitted: August 27, 2019
 Laboratory Reference: 1908-309
 Project: 060172

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-1					
Laboratory ID:	08-309-01					
Dichlorodifluoromethane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Chloromethane	ND	0.0023	EPA 8260D	8-27-19	8-27-19	
Vinyl Chloride	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Bromomethane	ND	0.00060	EPA 8260D	8-27-19	8-27-19	
Chloroethane	ND	0.0023	EPA 8260D	8-27-19	8-27-19	
Trichlorofluoromethane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
1,1-Dichloroethene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Acetone	0.0048	0.0046	EPA 8260D	8-27-19	8-27-19	
Iodomethane	ND	0.0023	EPA 8260D	8-27-19	8-27-19	
Carbon Disulfide	0.021	0.00065	EPA 8260D	8-27-19	8-27-19	Y
Methylene Chloride	ND	0.0030	EPA 8260D	8-27-19	8-27-19	
(trans) 1,2-Dichloroethene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Methyl t-Butyl Ether	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
1,1-Dichloroethane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Vinyl Acetate	ND	0.0023	EPA 8260D	8-27-19	8-27-19	
2,2-Dichloropropane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
(cis) 1,2-Dichloroethene	0.00069	0.00046	EPA 8260D	8-27-19	8-27-19	
2-Butanone	ND	0.0023	EPA 8260D	8-27-19	8-27-19	
Bromochloromethane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Chloroform	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
1,1,1-Trichloroethane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Carbon Tetrachloride	ND	0.00065	EPA 8260D	8-27-19	8-27-19	
1,1-Dichloropropene	ND	0.00065	EPA 8260D	8-27-19	8-27-19	
Benzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
1,2-Dichloroethane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Trichloroethene	0.0013	0.00046	EPA 8260D	8-27-19	8-27-19	
1,2-Dichloropropane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Dibromomethane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Bromodichloromethane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
2-Chloroethyl Vinyl Ether	ND	0.0023	EPA 8260D	8-27-19	8-27-19	
(cis) 1,3-Dichloropropene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Methyl Isobutyl Ketone	ND	0.0023	EPA 8260D	8-27-19	8-27-19	
Toluene	ND	0.0023	EPA 8260D	8-27-19	8-27-19	
(trans) 1,3-Dichloropropene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	



Date of Report: August 29, 2019
 Samples Submitted: August 27, 2019
 Laboratory Reference: 1908-309
 Project: 060172

VOLATILE ORGANICS EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-1					
Laboratory ID:	08-309-01					
1,1,2-Trichloroethane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Tetrachloroethene	0.13	0.036	EPA 8260D	8-27-19	8-27-19	
1,3-Dichloropropane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
2-Hexanone	ND	0.0023	EPA 8260D	8-27-19	8-27-19	
Dibromochloromethane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
1,2-Dibromoethane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Chlorobenzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
1,1,1,2-Tetrachloroethane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Ethylbenzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
m,p-Xylene	ND	0.00093	EPA 8260D	8-27-19	8-27-19	
o-Xylene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Styrene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Bromoform	ND	0.0023	EPA 8260D	8-27-19	8-27-19	
Isopropylbenzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Bromobenzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
1,1,2,2-Tetrachloroethane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
1,2,3-Trichloropropane	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
n-Propylbenzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
2-Chlorotoluene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
4-Chlorotoluene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
1,3,5-Trimethylbenzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
tert-Butylbenzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
1,2,4-Trimethylbenzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
sec-Butylbenzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
1,3-Dichlorobenzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
p-Isopropyltoluene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
1,4-Dichlorobenzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
1,2-Dichlorobenzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
n-Butylbenzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
1,2-Dibromo-3-chloropropane	ND	0.0023	EPA 8260D	8-27-19	8-27-19	
1,2,4-Trichlorobenzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
Hexachlorobutadiene	ND	0.0023	EPA 8260D	8-27-19	8-27-19	
Naphthalene	0.026	0.00046	EPA 8260D	8-27-19	8-27-19	
1,2,3-Trichlorobenzene	ND	0.00046	EPA 8260D	8-27-19	8-27-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>71-130</i>				



Date of Report: August 29, 2019
 Samples Submitted: August 27, 2019
 Laboratory Reference: 1908-309
 Project: 060172

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0827S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Chloromethane	ND	0.0050	EPA 8260D	8-27-19	8-27-19	
Vinyl Chloride	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Bromomethane	ND	0.0013	EPA 8260D	8-27-19	8-27-19	
Chloroethane	ND	0.0050	EPA 8260D	8-27-19	8-27-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Acetone	ND	0.010	EPA 8260D	8-27-19	8-27-19	
Iodomethane	ND	0.0050	EPA 8260D	8-27-19	8-27-19	
Carbon Disulfide	ND	0.0014	EPA 8260D	8-27-19	8-27-19	
Methylene Chloride	ND	0.0064	EPA 8260D	8-27-19	8-27-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Vinyl Acetate	ND	0.0050	EPA 8260D	8-27-19	8-27-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
2-Butanone	ND	0.0050	EPA 8260D	8-27-19	8-27-19	
Bromochloromethane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Chloroform	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Carbon Tetrachloride	ND	0.0014	EPA 8260D	8-27-19	8-27-19	
1,1-Dichloropropene	ND	0.0014	EPA 8260D	8-27-19	8-27-19	
Benzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Trichloroethene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Dibromomethane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Bromodichloromethane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	8-27-19	8-27-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	8-27-19	8-27-19	
Toluene	ND	0.0050	EPA 8260D	8-27-19	8-27-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	



Date of Report: August 29, 2019
 Samples Submitted: August 27, 2019
 Laboratory Reference: 1908-309
 Project: 060172

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0827S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Tetrachloroethene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
2-Hexanone	ND	0.0050	EPA 8260D	8-27-19	8-27-19	
Dibromochloromethane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Chlorobenzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Ethylbenzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
m,p-Xylene	ND	0.0020	EPA 8260D	8-27-19	8-27-19	
o-Xylene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Styrene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Bromoform	ND	0.0050	EPA 8260D	8-27-19	8-27-19	
Isopropylbenzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Bromobenzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
n-Propylbenzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
2-Chlorotoluene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
4-Chlorotoluene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
tert-Butylbenzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
sec-Butylbenzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
n-Butylbenzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	8-27-19	8-27-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	8-27-19	8-27-19	
Naphthalene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	8-27-19	8-27-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-130</i>				



Date of Report: August 29, 2019
 Samples Submitted: August 27, 2019
 Laboratory Reference: 1908-309
 Project: 060172

**VOLATILE ORGANICS EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0827S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0473	0.0464	0.0500	0.0500	95	93	57-133	2	18	
Benzene	0.0453	0.0447	0.0500	0.0500	91	89	71-129	1	16	
Trichloroethene	0.0537	0.0540	0.0500	0.0500	107	108	71-122	1	16	
Toluene	0.0516	0.0517	0.0500	0.0500	103	103	74-125	0	15	
Chlorobenzene	0.0543	0.0540	0.0500	0.0500	109	108	72-120	1	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>102</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>105</i>	<i>109</i>	<i>78-128</i>			
<i>4-Bromofluorobenzene</i>					<i>95</i>	<i>94</i>	<i>71-130</i>			



Date of Report: August 29, 2019
 Samples Submitted: August 27, 2019
 Laboratory Reference: 1908-309
 Project: 060172

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-1					
Laboratory ID:	08-309-01					
Mineral Spirits	ND	2.6	NWTPH-Gx	8-28-19	8-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	85	58-129				



Date of Report: August 29, 2019
 Samples Submitted: August 27, 2019
 Laboratory Reference: 1908-309
 Project: 060172

**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:	MB0828S1					
Mineral Spirits	ND	5.0	NWTPH-Gx	8-28-19	8-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	78	58-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-309-01							
	ORIG	DUP						
Mineral Spirits	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				85	84	58-129		



Date of Report: August 29, 2019
Samples Submitted: August 27, 2019
Laboratory Reference: 1908-309
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-1	08-309-01	14	8-27-19





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

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

(other) _____

Laboratory Number: **08-309**

Company: Aspect
 Project Number: D60172
 Project Name: Spill N Spec
 Project Manager: Della Messerly + Jeremy Bantz
 Sampled by: Daniel Beckwith

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	SS-1	8/26/19	1445	Soil

Number of Containers

Container #	Contents	Number
	NWTPH-HCID	
	NWTPH-Gx/BTEX	
	NWTPH-Gx	
	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
	Volatiles 8260C	X
	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	
	X Mineral Spills - NWTPH-Gx	
	% Moisture	X

Signature	Company	Date	Time	Comments/Special Instructions
[Signature]	Aspect Consulting	8/26/19	1525	
[Signature]	ARPHA	8/27/19	1006	
[Signature]	ARPHA	8/27/19	12:05	
[Signature]	OGE	8/27/19	1205	

Received _____ Relinquished _____
 Received _____ Relinquished _____
 Received _____ Relinquished _____
 Received _____ Relinquished _____
 Received _____ Relinquished _____

Reviewed/Date _____

Reviewed/Date _____

Reviewed/Date _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

September 5, 2019

Delia Massey
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suit 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 1909-027

Dear Delia:

Enclosed are the analytical results and associated quality control data for samples submitted on September 4, 2019.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 5, 2019
Samples Submitted: September 4, 2019
Laboratory Reference: 1909-027
Project: 060172

Case Narrative

Samples were collected on September 4, 2019 and received by the laboratory on September 4, 2019. 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: September 5, 2019
 Samples Submitted: September 4, 2019
 Laboratory Reference: 1909-027
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-2					
Laboratory ID:	09-027-01					
Dichlorodifluoromethane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Chloromethane	ND	0.0021	EPA 8260D	9-4-19	9-4-19	
Vinyl Chloride	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Bromomethane	ND	0.00060	EPA 8260D	9-4-19	9-4-19	
Chloroethane	ND	0.0021	EPA 8260D	9-4-19	9-4-19	
Trichlorofluoromethane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,1-Dichloroethene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Acetone	ND	0.0043	EPA 8260D	9-4-19	9-4-19	
Iodomethane	ND	0.0021	EPA 8260D	9-4-19	9-4-19	
Carbon Disulfide	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Methylene Chloride	ND	0.0021	EPA 8260D	9-4-19	9-4-19	
(trans) 1,2-Dichloroethene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Methyl t-Butyl Ether	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,1-Dichloroethane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Vinyl Acetate	ND	0.0021	EPA 8260D	9-4-19	9-4-19	
2,2-Dichloropropane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
(cis) 1,2-Dichloroethene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
2-Butanone	ND	0.0021	EPA 8260D	9-4-19	9-4-19	
Bromochloromethane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Chloroform	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,1,1-Trichloroethane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Carbon Tetrachloride	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,1-Dichloropropene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Benzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,2-Dichloroethane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Trichloroethene	0.00050	0.00043	EPA 8260D	9-4-19	9-4-19	
1,2-Dichloropropane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Dibromomethane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Bromodichloromethane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
2-Chloroethyl Vinyl Ether	ND	0.0021	EPA 8260D	9-4-19	9-4-19	
(cis) 1,3-Dichloropropene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Methyl Isobutyl Ketone	ND	0.0021	EPA 8260D	9-4-19	9-4-19	
Toluene	ND	0.0021	EPA 8260D	9-4-19	9-4-19	
(trans) 1,3-Dichloropropene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	



Date of Report: September 5, 2019
 Samples Submitted: September 4, 2019
 Laboratory Reference: 1909-027
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-2					
Laboratory ID:	09-027-01					
1,1,2-Trichloroethane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Tetrachloroethene	1.1	0.031	EPA 8260D	9-5-19	9-5-19	
1,3-Dichloropropane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
2-Hexanone	ND	0.0021	EPA 8260D	9-4-19	9-4-19	
Dibromochloromethane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,2-Dibromoethane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Chlorobenzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,1,1,2-Tetrachloroethane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Ethylbenzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
m,p-Xylene	ND	0.00085	EPA 8260D	9-4-19	9-4-19	
o-Xylene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Styrene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Bromoform	ND	0.0021	EPA 8260D	9-4-19	9-4-19	
Isopropylbenzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Bromobenzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,1,2,2-Tetrachloroethane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,2,3-Trichloropropane	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
n-Propylbenzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
2-Chlorotoluene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
4-Chlorotoluene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,3,5-Trimethylbenzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
tert-Butylbenzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,2,4-Trimethylbenzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
sec-Butylbenzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,3-Dichlorobenzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
p-Isopropyltoluene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,4-Dichlorobenzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,2-Dichlorobenzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
n-Butylbenzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,2-Dibromo-3-chloropropane	ND	0.0021	EPA 8260D	9-4-19	9-4-19	
1,2,4-Trichlorobenzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
Hexachlorobutadiene	ND	0.0021	EPA 8260D	9-4-19	9-4-19	
Naphthalene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
1,2,3-Trichlorobenzene	ND	0.00043	EPA 8260D	9-4-19	9-4-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>71-130</i>				



Date of Report: September 5, 2019
 Samples Submitted: September 4, 2019
 Laboratory Reference: 1909-027
 Project: 060172

VOLATILE ORGANICS EPA 8260D
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0904S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Chloromethane	ND	0.0050	EPA 8260D	9-4-19	9-4-19	
Vinyl Chloride	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Bromomethane	ND	0.0014	EPA 8260D	9-4-19	9-4-19	
Chloroethane	ND	0.0050	EPA 8260D	9-4-19	9-4-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Acetone	ND	0.010	EPA 8260D	9-4-19	9-4-19	
Iodomethane	ND	0.0050	EPA 8260D	9-4-19	9-4-19	
Carbon Disulfide	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Methylene Chloride	ND	0.0050	EPA 8260D	9-4-19	9-4-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Vinyl Acetate	ND	0.0050	EPA 8260D	9-4-19	9-4-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
2-Butanone	ND	0.0050	EPA 8260D	9-4-19	9-4-19	
Bromochloromethane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Chloroform	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Benzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Trichloroethene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Dibromomethane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Bromodichloromethane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	9-4-19	9-4-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	9-4-19	9-4-19	
Toluene	ND	0.0050	EPA 8260D	9-4-19	9-4-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	



Date of Report: September 5, 2019
 Samples Submitted: September 4, 2019
 Laboratory Reference: 1909-027
 Project: 060172

VOLATILE ORGANICS EPA 8260D
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0904S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
2-Hexanone	ND	0.0050	EPA 8260D	9-4-19	9-4-19	
Dibromochloromethane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Chlorobenzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Ethylbenzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
m,p-Xylene	ND	0.0020	EPA 8260D	9-4-19	9-4-19	
o-Xylene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Styrene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Bromoform	ND	0.0050	EPA 8260D	9-4-19	9-4-19	
Isopropylbenzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Bromobenzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
n-Propylbenzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
2-Chlorotoluene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
4-Chlorotoluene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
tert-Butylbenzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
sec-Butylbenzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
n-Butylbenzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	9-4-19	9-4-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	9-4-19	9-4-19	
Naphthalene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	9-4-19	9-4-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>71-130</i>				



Date of Report: September 5, 2019
 Samples Submitted: September 4, 2019
 Laboratory Reference: 1909-027
 Project: 060172

VOLATILE ORGANICS EPA 8260D
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0905S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Chloromethane	ND	0.0050	EPA 8260D	9-5-19	9-5-19	
Vinyl Chloride	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Bromomethane	ND	0.0014	EPA 8260D	9-5-19	9-5-19	
Chloroethane	ND	0.0050	EPA 8260D	9-5-19	9-5-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Acetone	ND	0.010	EPA 8260D	9-5-19	9-5-19	
Iodomethane	ND	0.0050	EPA 8260D	9-5-19	9-5-19	
Carbon Disulfide	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Methylene Chloride	ND	0.0050	EPA 8260D	9-5-19	9-5-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Vinyl Acetate	ND	0.0050	EPA 8260D	9-5-19	9-5-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
2-Butanone	ND	0.0050	EPA 8260D	9-5-19	9-5-19	
Bromochloromethane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Chloroform	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Benzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Trichloroethene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Dibromomethane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Bromodichloromethane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	9-5-19	9-5-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	9-5-19	9-5-19	
Toluene	ND	0.0050	EPA 8260D	9-5-19	9-5-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	



Date of Report: September 5, 2019
 Samples Submitted: September 4, 2019
 Laboratory Reference: 1909-027
 Project: 060172

VOLATILE ORGANICS EPA 8260D
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0905S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
2-Hexanone	ND	0.0050	EPA 8260D	9-5-19	9-5-19	
Dibromochloromethane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Chlorobenzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Ethylbenzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
m,p-Xylene	ND	0.0020	EPA 8260D	9-5-19	9-5-19	
o-Xylene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Styrene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Bromoform	ND	0.0050	EPA 8260D	9-5-19	9-5-19	
Isopropylbenzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Bromobenzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
n-Propylbenzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
2-Chlorotoluene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
4-Chlorotoluene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
tert-Butylbenzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
sec-Butylbenzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
n-Butylbenzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	9-5-19	9-5-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	9-5-19	9-5-19	
Naphthalene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	9-5-19	9-5-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-130</i>				



Date of Report: September 5, 2019
 Samples Submitted: September 4, 2019
 Laboratory Reference: 1909-027
 Project: 060172

VOLATILE ORGANICS EPA 8260D
SB/SBD QUALITY CONTROL

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:		SB0904S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0417	0.0404	0.0500	0.0500	83	81	57-133	3	18	
Benzene	0.0434	0.0406	0.0500	0.0500	87	81	71-129	7	16	
Trichloroethene	0.0457	0.0437	0.0500	0.0500	91	87	71-122	4	16	
Toluene	0.0459	0.0435	0.0500	0.0500	92	87	74-125	5	15	
Chlorobenzene	0.0478	0.0454	0.0500	0.0500	96	91	72-120	5	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					97	99	76-131			
<i>Toluene-d8</i>					100	100	78-128			
<i>4-Bromofluorobenzene</i>					97	96	71-130			
Laboratory ID:		SB0905S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0407	0.0392	0.0500	0.0500	81	78	57-133	4	18	
Benzene	0.0424	0.0420	0.0500	0.0500	85	84	71-129	1	16	
Trichloroethene	0.0458	0.0442	0.0500	0.0500	92	88	71-122	4	16	
Toluene	0.0451	0.0436	0.0500	0.0500	90	87	74-125	3	15	
Chlorobenzene	0.0474	0.0463	0.0500	0.0500	95	93	72-120	2	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					98	94	76-131			
<i>Toluene-d8</i>					101	101	78-128			
<i>4-Bromofluorobenzene</i>					94	96	71-130			



Date of Report: September 5, 2019
 Samples Submitted: September 4, 2019
 Laboratory Reference: 1909-027
 Project: 060172

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-2					
Laboratory ID:	09-027-01					
Mineral Spirits	ND	3.2	EPA 8021B	9-5-19	9-5-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	83	58-129				



Date of Report: September 5, 2019
 Samples Submitted: September 4, 2019
 Laboratory Reference: 1909-027
 Project: 060172

**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:	MB0905S1					
Mineral Spirits	ND	5.0	EPA 8021B	9-5-19	9-5-19	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	78	58-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-027-01							
	ORIG	DUP						
Mineral Spirits	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene			83	86	58-129			



Date of Report: September 5, 2019
Samples Submitted: September 4, 2019
Laboratory Reference: 1909-027
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-2	09-027-01	13	9-4-19





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) 893-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(In working days)

(Check One)

- Same Day
- 1 Day
- 2 Days
- 3 Days
- Standard (7 Days)
- _____ (other)

Laboratory Number: **09-027**

Company: **Aspect Consulting**
 Project Number: **060172**
 Project Name: **SPIC N SPAN**
 Project Manager: **Delia Massey & Serryn Porter**
 Sampled by: **Daniel Bobrick**

Lab ID: **SS-2**
 Sample Identification

Date Sampled	Time Sampled	Matrix
9/4/19	11:20	Soil

Number of Containers: **5**

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> 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	Mineral Spirits - NWTPH-Gx	% Moisture
5					X													X	X

Signature	Company	Date	Time	Comments/Special Instructions
[Signature]	Aspect Consulting	9/4/19	2:00	
[Signature]	[Signature]	9/4/19	4:00	
[Signature]	[Signature]	9/4/19	16:00	

Relinquished	[Signature]	Aspect Consulting				
Received	[Signature]	Aspect Consulting				
Relinquished	[Signature]	[Signature]				
Received	[Signature]	[Signature]				
Relinquished						
Received						
Relinquished						
Received						
Reviewed/Date		Reviewed/Date				

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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

September 12, 2019

Delia Massy
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suit 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 1909-095

Dear Delia:

Enclosed are the analytical results and associated quality control data for samples submitted on September 11, 2019.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 12, 2019
Samples Submitted: September 11, 2019
Laboratory Reference: 1909-095
Project: 060172

Case Narrative

Samples were collected on September 10, 2019 and received by the laboratory on September 11, 2019. 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: September 12, 2019
 Samples Submitted: September 11, 2019
 Laboratory Reference: 1909-095
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-3					
Laboratory ID:	09-095-01					
Dichlorodifluoromethane	ND	0.00050	EPA 8260D	9-11-19	9-11-19	
Chloromethane	ND	0.0019	EPA 8260D	9-11-19	9-11-19	
Vinyl Chloride	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Bromomethane	ND	0.00050	EPA 8260D	9-11-19	9-11-19	
Chloroethane	ND	0.0019	EPA 8260D	9-11-19	9-11-19	
Trichlorofluoromethane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,1-Dichloroethene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Acetone	0.0062	0.0039	EPA 8260D	9-11-19	9-11-19	Y
Iodomethane	ND	0.0019	EPA 8260D	9-11-19	9-11-19	
Carbon Disulfide	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Methylene Chloride	ND	0.0019	EPA 8260D	9-11-19	9-11-19	
(trans) 1,2-Dichloroethene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Methyl t-Butyl Ether	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,1-Dichloroethane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Vinyl Acetate	ND	0.0019	EPA 8260D	9-11-19	9-11-19	
2,2-Dichloropropane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
(cis) 1,2-Dichloroethene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
2-Butanone	ND	0.0019	EPA 8260D	9-11-19	9-11-19	
Bromochloromethane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Chloroform	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,1,1-Trichloroethane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Carbon Tetrachloride	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,1-Dichloropropene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Benzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,2-Dichloroethane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Trichloroethene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,2-Dichloropropane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Dibromomethane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Bromodichloromethane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
2-Chloroethyl Vinyl Ether	ND	0.0019	EPA 8260D	9-11-19	9-11-19	
(cis) 1,3-Dichloropropene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Methyl Isobutyl Ketone	ND	0.0019	EPA 8260D	9-11-19	9-11-19	
Toluene	ND	0.0019	EPA 8260D	9-11-19	9-11-19	
(trans) 1,3-Dichloropropene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	



Date of Report: September 12, 2019
 Samples Submitted: September 11, 2019
 Laboratory Reference: 1909-095
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-3					
Laboratory ID:	09-095-01					
1,1,2-Trichloroethane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Tetrachloroethene	0.0084	0.00039	EPA 8260D	9-11-19	9-11-19	
1,3-Dichloropropane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
2-Hexanone	ND	0.0019	EPA 8260D	9-11-19	9-11-19	
Dibromochloromethane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,2-Dibromoethane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Chlorobenzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,1,1,2-Tetrachloroethane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Ethylbenzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
m,p-Xylene	ND	0.00077	EPA 8260D	9-11-19	9-11-19	
o-Xylene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Styrene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Bromoform	ND	0.0019	EPA 8260D	9-11-19	9-11-19	
Isopropylbenzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Bromobenzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,1,2,2-Tetrachloroethane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,2,3-Trichloropropane	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
n-Propylbenzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
2-Chlorotoluene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
4-Chlorotoluene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,3,5-Trimethylbenzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
tert-Butylbenzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,2,4-Trimethylbenzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
sec-Butylbenzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,3-Dichlorobenzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
p-Isopropyltoluene	0.0018	0.00039	EPA 8260D	9-11-19	9-11-19	
1,4-Dichlorobenzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,2-Dichlorobenzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
n-Butylbenzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,2-Dibromo-3-chloropropane	ND	0.0019	EPA 8260D	9-11-19	9-11-19	
1,2,4-Trichlorobenzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
Hexachlorobutadiene	ND	0.0019	EPA 8260D	9-11-19	9-11-19	
Naphthalene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
1,2,3-Trichlorobenzene	ND	0.00039	EPA 8260D	9-11-19	9-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>71-130</i>				



Date of Report: September 12, 2019
 Samples Submitted: September 11, 2019
 Laboratory Reference: 1909-095
 Project: 060172

VOLATILE ORGANICS EPA 8260D
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0911S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	9-11-19	9-11-19	
Chloromethane	ND	0.0050	EPA 8260D	9-11-19	9-11-19	
Vinyl Chloride	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Bromomethane	ND	0.0013	EPA 8260D	9-11-19	9-11-19	
Chloroethane	ND	0.0050	EPA 8260D	9-11-19	9-11-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Acetone	ND	0.010	EPA 8260D	9-11-19	9-11-19	
Iodomethane	ND	0.0050	EPA 8260D	9-11-19	9-11-19	
Carbon Disulfide	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Methylene Chloride	ND	0.0050	EPA 8260D	9-11-19	9-11-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Vinyl Acetate	ND	0.0050	EPA 8260D	9-11-19	9-11-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
2-Butanone	ND	0.0050	EPA 8260D	9-11-19	9-11-19	
Bromochloromethane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Chloroform	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Benzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Trichloroethene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Dibromomethane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Bromodichloromethane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	9-11-19	9-11-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	9-11-19	9-11-19	
Toluene	ND	0.0050	EPA 8260D	9-11-19	9-11-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	



Date of Report: September 12, 2019
 Samples Submitted: September 11, 2019
 Laboratory Reference: 1909-095
 Project: 060172

VOLATILE ORGANICS EPA 8260D
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0911S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
2-Hexanone	ND	0.0050	EPA 8260D	9-11-19	9-11-19	
Dibromochloromethane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Chlorobenzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Ethylbenzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
m,p-Xylene	ND	0.0020	EPA 8260D	9-11-19	9-11-19	
o-Xylene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Styrene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Bromoform	ND	0.0050	EPA 8260D	9-11-19	9-11-19	
Isopropylbenzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Bromobenzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
n-Propylbenzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
2-Chlorotoluene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
4-Chlorotoluene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
tert-Butylbenzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
sec-Butylbenzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
n-Butylbenzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	9-11-19	9-11-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	9-11-19	9-11-19	
Naphthalene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	9-11-19	9-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-130</i>				



Date of Report: September 12, 2019
 Samples Submitted: September 11, 2019
 Laboratory Reference: 1909-095
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0911S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0544	0.0526	0.0500	0.0500	109	105	57-133	3	18	
Benzene	0.0487	0.0465	0.0500	0.0500	97	93	71-129	5	16	
Trichloroethene	0.0526	0.0497	0.0500	0.0500	105	99	71-122	6	16	
Toluene	0.0497	0.0476	0.0500	0.0500	99	95	74-125	4	15	
Chlorobenzene	0.0518	0.0497	0.0500	0.0500	104	99	72-120	4	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					102	102	76-131			
<i>Toluene-d8</i>					99	99	78-128			
<i>4-Bromofluorobenzene</i>					100	97	71-130			



Date of Report: September 12, 2019
 Samples Submitted: September 11, 2019
 Laboratory Reference: 1909-095
 Project: 060172

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-3					
Laboratory ID:	09-095-01					
Mineral Spirits	ND	2.9	NWTPH-Gx	9-11-19	9-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>79</i>	<i>58-129</i>				



Date of Report: September 12, 2019
 Samples Submitted: September 11, 2019
 Laboratory Reference: 1909-095
 Project: 060172

**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:	MB0911S1					
Mineral Spirits	ND	5.0	NWTPH-Gx	9-11-19	9-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	72	58-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-095-01							
	ORIG	DUP						
Mineral Spirits	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				79	79	58-129		



Date of Report: September 12, 2019
Samples Submitted: September 11, 2019
Laboratory Reference: 1909-095
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-3	09-095-01	12	9-11-19





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

Laboratory Number: **09-095**

Company: Aspect Consulting
Project Number: 060172
Project Name: Spic N Span
Project Manager: Delia Massey & Jeremy Porter
Sampled by: Daniel Boberek

Turnaround Request (in working days)
(Check One)
 Same Day
 1 Day
 2 Days
 3 Days
 Standard (7 Days)
 (TPH analysis 5 Days)
 (other) _____

Date	Time	Matrix	Number of Containers	Testing Method
9/10/2014	15:15	Soil	5	NWTPH-HCID NWTPH-Gx/BTEX NWTPH-Gx NWTPH-Dx (<input type="checkbox"/> 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 Mineral spirits (NWTPH-Gx) % Moisture

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	Aspect Consulting	9/11/19	0840	
<i>[Signature]</i>	Speedy	9-11-19	0840	
<i>[Signature]</i>	Speedy	9-11-19	1002	

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

September 13, 2019

Delia Massey
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suit 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 1909-114

Dear Delia:

Enclosed are the analytical results and associated quality control data for samples submitted on September 12, 2019.

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



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

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

Date of Report: September 13, 2019
Samples Submitted: September 12, 2019
Laboratory Reference: 1909-114
Project: 060172

Case Narrative

Samples were collected on September 11, 2019 and received by the laboratory on September 12, 2019. 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: September 13, 2019
 Samples Submitted: September 12, 2019
 Laboratory Reference: 1909-114
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-4					
Laboratory ID:	09-114-01					
Dichlorodifluoromethane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Chloromethane	ND	0.0027	EPA 8260D	9-12-19	9-12-19	
Vinyl Chloride	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Bromomethane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Chloroethane	ND	0.0027	EPA 8260D	9-12-19	9-12-19	
Trichlorofluoromethane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,1-Dichloroethene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Acetone	ND	0.0055	EPA 8260D	9-12-19	9-12-19	
Iodomethane	ND	0.0027	EPA 8260D	9-12-19	9-12-19	
Carbon Disulfide	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Methylene Chloride	ND	0.0027	EPA 8260D	9-12-19	9-12-19	
(trans) 1,2-Dichloroethene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Methyl t-Butyl Ether	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,1-Dichloroethane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Vinyl Acetate	ND	0.0027	EPA 8260D	9-12-19	9-12-19	
2,2-Dichloropropane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
(cis) 1,2-Dichloroethene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
2-Butanone	ND	0.0027	EPA 8260D	9-12-19	9-12-19	
Bromochloromethane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Chloroform	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,1,1-Trichloroethane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Carbon Tetrachloride	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,1-Dichloropropene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Benzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,2-Dichloroethane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Trichloroethene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,2-Dichloropropane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Dibromomethane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Bromodichloromethane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
2-Chloroethyl Vinyl Ether	ND	0.0027	EPA 8260D	9-12-19	9-12-19	
(cis) 1,3-Dichloropropene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Methyl Isobutyl Ketone	ND	0.0027	EPA 8260D	9-12-19	9-12-19	
Toluene	ND	0.0027	EPA 8260D	9-12-19	9-12-19	
(trans) 1,3-Dichloropropene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-4					
Laboratory ID:	09-114-01					
1,1,2-Trichloroethane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Tetrachloroethene	0.010	0.00055	EPA 8260D	9-12-19	9-12-19	
1,3-Dichloropropane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
2-Hexanone	ND	0.0027	EPA 8260D	9-12-19	9-12-19	
Dibromochloromethane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,2-Dibromoethane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Chlorobenzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,1,1,2-Tetrachloroethane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Ethylbenzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
m,p-Xylene	ND	0.0011	EPA 8260D	9-12-19	9-12-19	
o-Xylene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Styrene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Bromoform	ND	0.0027	EPA 8260D	9-12-19	9-12-19	
Isopropylbenzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Bromobenzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,1,2,2-Tetrachloroethane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,2,3-Trichloropropane	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
n-Propylbenzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
2-Chlorotoluene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
4-Chlorotoluene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,3,5-Trimethylbenzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
tert-Butylbenzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,2,4-Trimethylbenzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
sec-Butylbenzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,3-Dichlorobenzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
p-Isopropyltoluene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,4-Dichlorobenzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,2-Dichlorobenzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
n-Butylbenzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,2-Dibromo-3-chloropropane	ND	0.0027	EPA 8260D	9-12-19	9-12-19	
1,2,4-Trichlorobenzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
Hexachlorobutadiene	ND	0.0027	EPA 8260D	9-12-19	9-12-19	
Naphthalene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
1,2,3-Trichlorobenzene	ND	0.00055	EPA 8260D	9-12-19	9-12-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-130</i>				



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 Laboratory Reference: 1909-114
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-5					
Laboratory ID:	09-114-02					
Dichlorodifluoromethane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Chloromethane	ND	0.0026	EPA 8260D	9-12-19	9-12-19	
Vinyl Chloride	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Bromomethane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Chloroethane	ND	0.0026	EPA 8260D	9-12-19	9-12-19	
Trichlorofluoromethane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,1-Dichloroethene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Acetone	ND	0.0051	EPA 8260D	9-12-19	9-12-19	
Iodomethane	ND	0.0026	EPA 8260D	9-12-19	9-12-19	
Carbon Disulfide	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Methylene Chloride	ND	0.0026	EPA 8260D	9-12-19	9-12-19	
(trans) 1,2-Dichloroethene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Methyl t-Butyl Ether	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,1-Dichloroethane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Vinyl Acetate	ND	0.0026	EPA 8260D	9-12-19	9-12-19	
2,2-Dichloropropane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
(cis) 1,2-Dichloroethene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
2-Butanone	ND	0.0026	EPA 8260D	9-12-19	9-12-19	
Bromochloromethane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Chloroform	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,1,1-Trichloroethane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Carbon Tetrachloride	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,1-Dichloropropene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Benzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,2-Dichloroethane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Trichloroethene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,2-Dichloropropane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Dibromomethane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Bromodichloromethane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
2-Chloroethyl Vinyl Ether	ND	0.0026	EPA 8260D	9-12-19	9-12-19	
(cis) 1,3-Dichloropropene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Methyl Isobutyl Ketone	ND	0.0026	EPA 8260D	9-12-19	9-12-19	
Toluene	ND	0.0026	EPA 8260D	9-12-19	9-12-19	
(trans) 1,3-Dichloropropene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-5					
Laboratory ID:	09-114-02					
1,1,2-Trichloroethane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Tetrachloroethene	0.023	0.00051	EPA 8260D	9-12-19	9-12-19	
1,3-Dichloropropane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
2-Hexanone	ND	0.0026	EPA 8260D	9-12-19	9-12-19	
Dibromochloromethane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,2-Dibromoethane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Chlorobenzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,1,1,2-Tetrachloroethane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Ethylbenzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
m,p-Xylene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
o-Xylene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Styrene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Bromoform	ND	0.0026	EPA 8260D	9-12-19	9-12-19	
Isopropylbenzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Bromobenzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,1,2,2-Tetrachloroethane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,2,3-Trichloropropane	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
n-Propylbenzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
2-Chlorotoluene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
4-Chlorotoluene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,3,5-Trimethylbenzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
tert-Butylbenzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,2,4-Trimethylbenzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
sec-Butylbenzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,3-Dichlorobenzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
p-Isopropyltoluene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,4-Dichlorobenzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,2-Dichlorobenzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
n-Butylbenzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,2-Dibromo-3-chloropropane	ND	0.0026	EPA 8260D	9-12-19	9-12-19	
1,2,4-Trichlorobenzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
Hexachlorobutadiene	ND	0.0026	EPA 8260D	9-12-19	9-12-19	
Naphthalene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
1,2,3-Trichlorobenzene	ND	0.00051	EPA 8260D	9-12-19	9-12-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-6					
Laboratory ID:	09-114-03					
Dichlorodifluoromethane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Chloromethane	ND	0.0029	EPA 8260D	9-12-19	9-12-19	
Vinyl Chloride	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Bromomethane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Chloroethane	ND	0.0029	EPA 8260D	9-12-19	9-12-19	
Trichlorofluoromethane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,1-Dichloroethene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Acetone	ND	0.0057	EPA 8260D	9-12-19	9-12-19	
Iodomethane	ND	0.0029	EPA 8260D	9-12-19	9-12-19	
Carbon Disulfide	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Methylene Chloride	ND	0.0029	EPA 8260D	9-12-19	9-12-19	
(trans) 1,2-Dichloroethene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Methyl t-Butyl Ether	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,1-Dichloroethane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Vinyl Acetate	ND	0.0029	EPA 8260D	9-12-19	9-12-19	
2,2-Dichloropropane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
(cis) 1,2-Dichloroethene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
2-Butanone	ND	0.0029	EPA 8260D	9-12-19	9-12-19	
Bromochloromethane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Chloroform	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,1,1-Trichloroethane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Carbon Tetrachloride	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,1-Dichloropropene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Benzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,2-Dichloroethane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Trichloroethene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,2-Dichloropropane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Dibromomethane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Bromodichloromethane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
2-Chloroethyl Vinyl Ether	ND	0.0029	EPA 8260D	9-12-19	9-12-19	
(cis) 1,3-Dichloropropene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Methyl Isobutyl Ketone	ND	0.0029	EPA 8260D	9-12-19	9-12-19	
Toluene	ND	0.0029	EPA 8260D	9-12-19	9-12-19	
(trans) 1,3-Dichloropropene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	



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 Project: 060172

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-6					
Laboratory ID:	09-114-03					
1,1,2-Trichloroethane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Tetrachloroethene	0.042	0.00057	EPA 8260D	9-12-19	9-12-19	
1,3-Dichloropropane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
2-Hexanone	ND	0.0029	EPA 8260D	9-12-19	9-12-19	
Dibromochloromethane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,2-Dibromoethane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Chlorobenzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,1,1,2-Tetrachloroethane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Ethylbenzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
m,p-Xylene	ND	0.0011	EPA 8260D	9-12-19	9-12-19	
o-Xylene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Styrene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Bromoform	ND	0.0029	EPA 8260D	9-12-19	9-12-19	
Isopropylbenzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Bromobenzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,1,2,2-Tetrachloroethane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,2,3-Trichloropropane	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
n-Propylbenzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
2-Chlorotoluene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
4-Chlorotoluene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,3,5-Trimethylbenzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
tert-Butylbenzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,2,4-Trimethylbenzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
sec-Butylbenzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,3-Dichlorobenzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
p-Isopropyltoluene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,4-Dichlorobenzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,2-Dichlorobenzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
n-Butylbenzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,2-Dibromo-3-chloropropane	ND	0.0029	EPA 8260D	9-12-19	9-12-19	
1,2,4-Trichlorobenzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
Hexachlorobutadiene	ND	0.0029	EPA 8260D	9-12-19	9-12-19	
Naphthalene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
1,2,3-Trichlorobenzene	ND	0.00057	EPA 8260D	9-12-19	9-12-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-130</i>				



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 Laboratory Reference: 1909-114
 Project: 060172

VOLATILE ORGANICS EPA 8260D
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0912S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Chloromethane	ND	0.0050	EPA 8260D	9-12-19	9-12-19	
Vinyl Chloride	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Bromomethane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Chloroethane	ND	0.0050	EPA 8260D	9-12-19	9-12-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Acetone	ND	0.010	EPA 8260D	9-12-19	9-12-19	
Iodomethane	ND	0.0050	EPA 8260D	9-12-19	9-12-19	
Carbon Disulfide	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Methylene Chloride	ND	0.0050	EPA 8260D	9-12-19	9-12-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Vinyl Acetate	ND	0.0050	EPA 8260D	9-12-19	9-12-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
2-Butanone	ND	0.0050	EPA 8260D	9-12-19	9-12-19	
Bromochloromethane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Chloroform	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Benzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Trichloroethene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Dibromomethane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Bromodichloromethane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	9-12-19	9-12-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	9-12-19	9-12-19	
Toluene	ND	0.0050	EPA 8260D	9-12-19	9-12-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	



Date of Report: September 13, 2019
 Samples Submitted: September 12, 2019
 Laboratory Reference: 1909-114
 Project: 060172

VOLATILE ORGANICS EPA 8260D
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0912S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
2-Hexanone	ND	0.0050	EPA 8260D	9-12-19	9-12-19	
Dibromochloromethane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Chlorobenzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Ethylbenzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
m,p-Xylene	ND	0.0020	EPA 8260D	9-12-19	9-12-19	
o-Xylene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Styrene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Bromoform	ND	0.0050	EPA 8260D	9-12-19	9-12-19	
Isopropylbenzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Bromobenzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
n-Propylbenzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
2-Chlorotoluene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
4-Chlorotoluene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
tert-Butylbenzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
sec-Butylbenzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
n-Butylbenzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	9-12-19	9-12-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	9-12-19	9-12-19	
Naphthalene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	9-12-19	9-12-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-130</i>				



Date of Report: September 13, 2019
 Samples Submitted: September 12, 2019
 Laboratory Reference: 1909-114
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0912S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0484	0.0498	0.0500	0.0500	97	100	57-133	3	18	
Benzene	0.0428	0.0422	0.0500	0.0500	86	84	71-129	1	16	
Trichloroethene	0.0435	0.0483	0.0500	0.0500	87	97	71-122	10	16	
Toluene	0.0429	0.0464	0.0500	0.0500	86	93	74-125	8	15	
Chlorobenzene	0.0452	0.0475	0.0500	0.0500	90	95	72-120	5	14	
<i>Surrogate:</i>										
Dibromofluoromethane					104	99	76-131			
Toluene-d8					97	100	78-128			
4-Bromofluorobenzene					101	101	71-130			



Date of Report: September 13, 2019
 Samples Submitted: September 12, 2019
 Laboratory Reference: 1909-114
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-4					
Laboratory ID:	09-114-01					
Mineral Spirits	ND	3.1	NWTPH-Gx	9-12-19	9-12-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	94	58-129				
Client ID:	SS-5					
Laboratory ID:	09-114-02					
Mineral Spirits	ND	3.2	NWTPH-Gx	9-12-19	9-12-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	101	58-129				
Client ID:	SS-6					
Laboratory ID:	09-114-03					
Mineral Spirits	ND	3.0	NWTPH-Gx	9-12-19	9-12-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	101	58-129				



Date of Report: September 13, 2019
 Samples Submitted: September 12, 2019
 Laboratory Reference: 1909-114
 Project: 060172

**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:	MB0912S1					
Mineral Spirits	ND	5.0	NWTPH-Gx	9-12-19	9-12-19	
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:	09-114-01							
	ORIG	DUP						
Mineral Spirits	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene			94	97	58-129			



Date of Report: September 13, 2019
Samples Submitted: September 12, 2019
Laboratory Reference: 1909-114
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-4	09-114-01	10	9-12-19
SS-5	09-114-02	11	9-12-19
SS-6	09-114-03	10	9-12-19





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

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number:

09-114

Company: Aspect Consulting

Project Number: 060172

Project Name: Spic N Spen

Project Manager: Delia Messley + Jeremy Porter

Sampled by: Daniel Brack

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	SS-4	9/11/19	1400	Soil	5
2	SS-5		1430	Soil	5
3	SS-6		1515	Soil	5

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> 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	Mineral Spirits - NWTPH-Gx	% Moisture
5					X														X
5					X														X
5					X														X

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	Aspect Consulting	9/11/2019	0905	
<i>[Signature]</i>	Speedy	9-12-19	0906	
<i>[Signature]</i>	Speedy	9-12-19	0950	
<i>[Signature]</i>	OSE	9/12/19	0950	

Relinquished

Received

Relinquished

Received

Relinquished

Received

Reviewed/Date

Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

October 7, 2019

Delia Massey
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suit 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 1910-030

Dear Delia:

Enclosed are the analytical results and associated quality control data for samples submitted on October 3, 2019.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: October 7, 2019
Samples Submitted: October 3, 2019
Laboratory Reference: 1910-030
Project: 060172

Case Narrative

Samples were collected on October 2, 2019 and received by the laboratory on October 3, 2019. 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: October 7, 2019
 Samples Submitted: October 3, 2019
 Laboratory Reference: 1910-030
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-7					
Laboratory ID:	10-030-01					
Dichlorodifluoromethane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Chloromethane	ND	0.0030	EPA 8260D	10-3-19	10-3-19	
Vinyl Chloride	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Bromomethane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Chloroethane	ND	0.0030	EPA 8260D	10-3-19	10-3-19	
Trichlorofluoromethane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,1-Dichloroethene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Acetone	0.018	0.0060	EPA 8260D	10-3-19	10-3-19	
Iodomethane	ND	0.0030	EPA 8260D	10-3-19	10-3-19	
Carbon Disulfide	0.0011	0.00060	EPA 8260D	10-3-19	10-3-19	
Methylene Chloride	ND	0.0030	EPA 8260D	10-3-19	10-3-19	
(trans) 1,2-Dichloroethene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Methyl t-Butyl Ether	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,1-Dichloroethane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Vinyl Acetate	ND	0.0030	EPA 8260D	10-3-19	10-3-19	
2,2-Dichloropropane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
(cis) 1,2-Dichloroethene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
2-Butanone	ND	0.0030	EPA 8260D	10-3-19	10-3-19	
Bromochloromethane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Chloroform	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,1,1-Trichloroethane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Carbon Tetrachloride	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,1-Dichloropropene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Benzene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,2-Dichloroethane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Trichloroethene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,2-Dichloropropane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Dibromomethane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Bromodichloromethane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
2-Chloroethyl Vinyl Ether	ND	0.0030	EPA 8260D	10-3-19	10-3-19	
(cis) 1,3-Dichloropropene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Methyl Isobutyl Ketone	ND	0.0030	EPA 8260D	10-3-19	10-3-19	
Toluene	ND	0.0030	EPA 8260D	10-3-19	10-3-19	
(trans) 1,3-Dichloropropene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	



Date of Report: October 7, 2019
 Samples Submitted: October 3, 2019
 Laboratory Reference: 1910-030
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-7					
Laboratory ID:	10-030-01					
1,1,2-Trichloroethane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Tetrachloroethene	0.036	0.00060	EPA 8260D	10-3-19	10-3-19	
1,3-Dichloropropane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
2-Hexanone	ND	0.0030	EPA 8260D	10-3-19	10-3-19	
Dibromochloromethane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,2-Dibromoethane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Chlorobenzene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,1,1,2-Tetrachloroethane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Ethylbenzene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
m,p-Xylene	ND	0.0012	EPA 8260D	10-3-19	10-3-19	
o-Xylene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Styrene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Bromoform	ND	0.0030	EPA 8260D	10-3-19	10-3-19	
Isopropylbenzene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Bromobenzene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,1,2,2-Tetrachloroethane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,2,3-Trichloropropane	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
n-Propylbenzene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
2-Chlorotoluene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
4-Chlorotoluene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,3,5-Trimethylbenzene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
tert-Butylbenzene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,2,4-Trimethylbenzene	0.00067	0.00060	EPA 8260D	10-3-19	10-3-19	
sec-Butylbenzene	0.0011	0.00060	EPA 8260D	10-3-19	10-3-19	
1,3-Dichlorobenzene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
p-Isopropyltoluene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,4-Dichlorobenzene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,2-Dichlorobenzene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
n-Butylbenzene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,2-Dibromo-3-chloropropane	ND	0.0030	EPA 8260D	10-3-19	10-3-19	
1,2,4-Trichlorobenzene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
Hexachlorobutadiene	ND	0.0030	EPA 8260D	10-3-19	10-3-19	
Naphthalene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
1,2,3-Trichlorobenzene	ND	0.00060	EPA 8260D	10-3-19	10-3-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>71-130</i>				



Date of Report: October 7, 2019
 Samples Submitted: October 3, 2019
 Laboratory Reference: 1910-030
 Project: 060172

**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:	MB1003S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Chloromethane	ND	0.0050	EPA 8260D	10-3-19	10-3-19	
Vinyl Chloride	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Bromomethane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Chloroethane	ND	0.0050	EPA 8260D	10-3-19	10-3-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Acetone	ND	0.010	EPA 8260D	10-3-19	10-3-19	
Iodomethane	ND	0.0050	EPA 8260D	10-3-19	10-3-19	
Carbon Disulfide	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Methylene Chloride	ND	0.0050	EPA 8260D	10-3-19	10-3-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Vinyl Acetate	ND	0.0050	EPA 8260D	10-3-19	10-3-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
2-Butanone	ND	0.0050	EPA 8260D	10-3-19	10-3-19	
Bromochloromethane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Chloroform	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Benzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Trichloroethene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Dibromomethane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Bromodichloromethane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	10-3-19	10-3-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	10-3-19	10-3-19	
Toluene	ND	0.0050	EPA 8260D	10-3-19	10-3-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	



Date of Report: October 7, 2019
 Samples Submitted: October 3, 2019
 Laboratory Reference: 1910-030
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1003S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Tetrachloroethene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
2-Hexanone	ND	0.0050	EPA 8260D	10-3-19	10-3-19	
Dibromochloromethane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Chlorobenzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Ethylbenzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
m,p-Xylene	ND	0.0020	EPA 8260D	10-3-19	10-3-19	
o-Xylene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Styrene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Bromoform	ND	0.0050	EPA 8260D	10-3-19	10-3-19	
Isopropylbenzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Bromobenzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
n-Propylbenzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
2-Chlorotoluene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
4-Chlorotoluene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
tert-Butylbenzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
sec-Butylbenzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
n-Butylbenzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	10-3-19	10-3-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	10-3-19	10-3-19	
Naphthalene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	10-3-19	10-3-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>71-130</i>				



Date of Report: October 7, 2019
 Samples Submitted: October 3, 2019
 Laboratory Reference: 1910-030
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1003S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0421	0.0449	0.0500	0.0500	84	90	57-133	6	18	
Benzene	0.0451	0.0470	0.0500	0.0500	90	94	71-129	4	16	
Trichloroethene	0.0490	0.0506	0.0500	0.0500	98	101	71-122	3	16	
Toluene	0.0456	0.0468	0.0500	0.0500	91	94	74-125	3	15	
Chlorobenzene	0.0484	0.0509	0.0500	0.0500	97	102	72-120	5	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					94	96	76-131			
<i>Toluene-d8</i>					94	97	78-128			
<i>4-Bromofluorobenzene</i>					93	92	71-130			



Date of Report: October 7, 2019
 Samples Submitted: October 3, 2019
 Laboratory Reference: 1910-030
 Project: 060172

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-7					
Laboratory ID:	10-030-01					
Mineral Spirits	8.3	5.0	NWTPH-Gx	10-3-19	10-3-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>110</i>	<i>58-129</i>				



Date of Report: October 7, 2019
 Samples Submitted: October 3, 2019
 Laboratory Reference: 1910-030
 Project: 060172

**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:	MB1003S3					
Mineral Spirits	ND	5.0	NWTPH-Gx	10-3-19	10-3-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	83	58-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-030-01							
	ORIG	DUP						
Mineral Spirits	6.50	5.80	NA	NA	NA	NA	11	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				110	111	58-129		



Date of Report: October 7, 2019
Samples Submitted: October 3, 2019
Laboratory Reference: 1910-030
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-7	10-030-01	22	10-3-19





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

Laboratory Number: **10-030**

Company: Aspect Consulting
 Project Number: 060172

Project Name: SPEC N Spain
 Project Manager: Delia Messery & Jeremy Porter

Sampled by: Denise Braeck

Turnaround Request (in working days)
 (Check One)
 Same Day
 2 Days
 1 Day
 3 Days
 Standard (7 Days)
 (TPH analysis 5 Days)
 (other) _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	SS-7	10/2/19	1320	Soil	5

	NWTPH-HCID	
	NWTPH-Gx/BTEX	
	NWTPH-Gx	
	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
X	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	
X	Mineral Spirits	
X	% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
<u>Denise Braeck</u>	<u>Aspect Consulting</u>	<u>10/3/19</u>	<u>0940</u>	
<u>Delia Messery</u>	<u>Aspect Consulting</u>	<u>10/3/19</u>	<u>0940</u>	
<u>Jeremy Porter</u>	<u>Aspect Consulting</u>	<u>10/3/19</u>	<u>1020</u>	

Relinquished	Received	Relinquished	Received

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

October 18, 2019

Delia Massey
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 1910-230

Dear Delia:

Enclosed are the analytical results and associated quality control data for samples submitted on October 17, 2019.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: October 18, 2019
Samples Submitted: October 17, 2019
Laboratory Reference: 1910-230
Project: 060172

Case Narrative

Samples were collected on October 16, 2019 and received by the laboratory on October 17, 2019. 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: October 18, 2019
 Samples Submitted: October 17, 2019
 Laboratory Reference: 1910-230
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-8					
Laboratory ID:	10-230-01					
Dichlorodifluoromethane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Chloromethane	ND	0.0024	EPA 8260D	10-17-19	10-17-19	
Vinyl Chloride	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Bromomethane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Chloroethane	ND	0.0024	EPA 8260D	10-17-19	10-17-19	
Trichlorofluoromethane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
1,1-Dichloroethene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Acetone	0.012	0.0049	EPA 8260D	10-17-19	10-17-19	
Iodomethane	ND	0.0024	EPA 8260D	10-17-19	10-17-19	
Carbon Disulfide	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Methylene Chloride	ND	0.0024	EPA 8260D	10-17-19	10-17-19	
(trans) 1,2-Dichloroethene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Methyl t-Butyl Ether	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
1,1-Dichloroethane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Vinyl Acetate	ND	0.0024	EPA 8260D	10-17-19	10-17-19	
2,2-Dichloropropane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
(cis) 1,2-Dichloroethene	0.0033	0.00049	EPA 8260D	10-17-19	10-17-19	
2-Butanone	ND	0.0024	EPA 8260D	10-17-19	10-17-19	
Bromochloromethane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Chloroform	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
1,1,1-Trichloroethane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Carbon Tetrachloride	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
1,1-Dichloropropene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Benzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
1,2-Dichloroethane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Trichloroethene	0.0049	0.00049	EPA 8260D	10-17-19	10-17-19	
1,2-Dichloropropane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Dibromomethane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Bromodichloromethane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
2-Chloroethyl Vinyl Ether	ND	0.0034	EPA 8260D	10-17-19	10-17-19	
(cis) 1,3-Dichloropropene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Methyl Isobutyl Ketone	0.0031	0.0024	EPA 8260D	10-17-19	10-17-19	
Toluene	ND	0.0024	EPA 8260D	10-17-19	10-17-19	
(trans) 1,3-Dichloropropene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	



Date of Report: October 18, 2019
 Samples Submitted: October 17, 2019
 Laboratory Reference: 1910-230
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-8					
Laboratory ID:	10-230-01					
1,1,2-Trichloroethane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Tetrachloroethene	0.036	0.00049	EPA 8260D	10-17-19	10-17-19	
1,3-Dichloropropane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
2-Hexanone	ND	0.0024	EPA 8260D	10-17-19	10-17-19	
Dibromochloromethane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
1,2-Dibromoethane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Chlorobenzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
1,1,1,2-Tetrachloroethane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Ethylbenzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
m,p-Xylene	ND	0.00098	EPA 8260D	10-17-19	10-17-19	
o-Xylene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Styrene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Bromoform	ND	0.0024	EPA 8260D	10-17-19	10-17-19	
Isopropylbenzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Bromobenzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
1,1,2,2-Tetrachloroethane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
1,2,3-Trichloropropane	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
n-Propylbenzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
2-Chlorotoluene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
4-Chlorotoluene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
1,3,5-Trimethylbenzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
tert-Butylbenzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
1,2,4-Trimethylbenzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
sec-Butylbenzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
1,3-Dichlorobenzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
p-Isopropyltoluene	0.0092	0.00049	EPA 8260D	10-17-19	10-17-19	
1,4-Dichlorobenzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
1,2-Dichlorobenzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
n-Butylbenzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
1,2-Dibromo-3-chloropropane	ND	0.0024	EPA 8260D	10-17-19	10-17-19	
1,2,4-Trichlorobenzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
Hexachlorobutadiene	ND	0.0024	EPA 8260D	10-17-19	10-17-19	
Naphthalene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
1,2,3-Trichlorobenzene	ND	0.00049	EPA 8260D	10-17-19	10-17-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-130</i>				



Date of Report: October 18, 2019
 Samples Submitted: October 17, 2019
 Laboratory Reference: 1910-230
 Project: 060172

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:	MB1017S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Chloromethane	ND	0.0050	EPA 8260D	10-17-19	10-17-19	
Vinyl Chloride	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Bromomethane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Chloroethane	ND	0.0050	EPA 8260D	10-17-19	10-17-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Acetone	ND	0.010	EPA 8260D	10-17-19	10-17-19	
Iodomethane	ND	0.0050	EPA 8260D	10-17-19	10-17-19	
Carbon Disulfide	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Methylene Chloride	ND	0.0050	EPA 8260D	10-17-19	10-17-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Vinyl Acetate	ND	0.0050	EPA 8260D	10-17-19	10-17-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
2-Butanone	ND	0.0050	EPA 8260D	10-17-19	10-17-19	
Bromochloromethane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Chloroform	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Benzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Trichloroethene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Dibromomethane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Bromodichloromethane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
2-Chloroethyl Vinyl Ether	ND	0.0070	EPA 8260D	10-17-19	10-17-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	10-17-19	10-17-19	
Toluene	ND	0.0050	EPA 8260D	10-17-19	10-17-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	



Date of Report: October 18, 2019
 Samples Submitted: October 17, 2019
 Laboratory Reference: 1910-230
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1017S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Tetrachloroethene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
2-Hexanone	ND	0.0050	EPA 8260D	10-17-19	10-17-19	
Dibromochloromethane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Chlorobenzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Ethylbenzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
m,p-Xylene	ND	0.0020	EPA 8260D	10-17-19	10-17-19	
o-Xylene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Styrene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Bromoform	ND	0.0050	EPA 8260D	10-17-19	10-17-19	
Isopropylbenzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Bromobenzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
n-Propylbenzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
2-Chlorotoluene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
4-Chlorotoluene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
tert-Butylbenzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
sec-Butylbenzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
n-Butylbenzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	10-17-19	10-17-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	10-17-19	10-17-19	
Naphthalene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	10-17-19	10-17-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>71-130</i>				



Date of Report: October 18, 2019
 Samples Submitted: October 17, 2019
 Laboratory Reference: 1910-230
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1017S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0427	0.0416	0.0500	0.0500	85	83	57-133	3	18	
Benzene	0.0428	0.0415	0.0500	0.0500	86	83	71-129	3	16	
Trichloroethene	0.0489	0.0472	0.0500	0.0500	98	94	71-122	4	16	
Toluene	0.0452	0.0432	0.0500	0.0500	90	86	74-125	5	15	
Chlorobenzene	0.0444	0.0442	0.0500	0.0500	89	88	72-120	0	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	100	76-131			
<i>Toluene-d8</i>					97	97	78-128			
<i>4-Bromofluorobenzene</i>					95	95	71-130			



Date of Report: October 18, 2019
 Samples Submitted: October 17, 2019
 Laboratory Reference: 1910-230
 Project: 060172

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-8					
Laboratory ID:	10-230-01					
Mineral Spirits	ND	3.7	NWTPH-Gx	10-17-19	10-17-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	58-129				



Date of Report: October 18, 2019
 Samples Submitted: October 17, 2019
 Laboratory Reference: 1910-230
 Project: 060172

**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:	MB1017S1					
Mineral Spirits	ND	5.0	NWTPH-Gx	10-17-19	10-17-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	84	58-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-218-01							
	ORIG	DUP						
Mineral Spirits	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
Fluorobenzene				86	87	58-129		



Date of Report: October 18, 2019
Samples Submitted: October 17, 2019
Laboratory Reference: 1910-230
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-8	10-230-01	19	10-17-19





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





Monsite Environmental Inc.
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3981 • www.onsite-env.com

Chain of Custody

Laboratory Number: **10-230**

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

(other)

Company: Aspect Consulting

Project Number: 060172

Project Name: SPIC N SPIN

Project Manager: Delia Messer & Jeremy Porter

Sampled by: Daniel Babrak

Lab ID: SS-8

Date Sampled: 10/16/19

Time Sampled: 1500

Matrix: Soil

Number of Containers: 5

NWTPH-HCID

NWTPH-Gx/BTEX

NWTPH-Gx

NWTPH-Dx

Volatiles 8260B

Halogenated Volatiles 8260B

Semivolatiles 8270D/SIM
 (with low-level PAHs)

PAHs 8270D/SIM (low-level)

PCBs 8082

Organochlorine Pesticides 8081A

Organophosphorus Pesticides 8270D/SIM

Chlorinated Acid Herbicides 8151A

Total RCRA / MTCA Metals (circle one)

TCLP Metals

HEM (oil and grease) 1664

Mineral Spirits

% Moisture

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	Aspect	10/17/19	9:59 am	
<i>[Signature]</i>	Aspect	10/17/19	9:55 am	
<i>[Signature]</i>	Aspect	10/17/19	11:00 am	
<i>[Signature]</i>	Aspect	10/17/19	1:00	



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

November 14, 2019

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suit 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 1911-121

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on November 12, 2019.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



Date of Report: November 14, 2019
Samples Submitted: November 12, 2019
Laboratory Reference: 1911-121
Project: 060172

Case Narrative

Samples were collected on November 11, 2019 and received by the laboratory on November 12, 2019. 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: November 14, 2019
 Samples Submitted: November 12, 2019
 Laboratory Reference: 1911-121
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-11					
Laboratory ID:	11-121-01					
Dichlorodifluoromethane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Chloromethane	ND	0.0024	EPA 8260D	11-12-19	11-12-19	
Vinyl Chloride	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Bromomethane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Chloroethane	ND	0.0024	EPA 8260D	11-12-19	11-12-19	
Trichlorofluoromethane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
1,1-Dichloroethene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Acetone	ND	0.0049	EPA 8260D	11-12-19	11-12-19	
Iodomethane	ND	0.0024	EPA 8260D	11-12-19	11-12-19	
Carbon Disulfide	0.0045	0.00068	EPA 8260D	11-12-19	11-12-19	Y
Methylene Chloride	ND	0.0024	EPA 8260D	11-12-19	11-12-19	
(trans) 1,2-Dichloroethene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Methyl t-Butyl Ether	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
1,1-Dichloroethane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Vinyl Acetate	ND	0.0031	EPA 8260D	11-12-19	11-12-19	
2,2-Dichloropropane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
(cis) 1,2-Dichloroethene	0.00074	0.00049	EPA 8260D	11-12-19	11-12-19	
2-Butanone	ND	0.0024	EPA 8260D	11-12-19	11-12-19	
Bromochloromethane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Chloroform	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
1,1,1-Trichloroethane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Carbon Tetrachloride	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
1,1-Dichloropropene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Benzene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
1,2-Dichloroethane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Trichloroethene	0.0037	0.00049	EPA 8260D	11-12-19	11-12-19	
1,2-Dichloropropane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Dibromomethane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Bromodichloromethane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260D	11-12-19	11-12-19	
(cis) 1,3-Dichloropropene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Methyl Isobutyl Ketone	ND	0.0031	EPA 8260D	11-12-19	11-12-19	
Toluene	ND	0.0024	EPA 8260D	11-12-19	11-12-19	
(trans) 1,3-Dichloropropene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	



Date of Report: November 14, 2019
 Samples Submitted: November 12, 2019
 Laboratory Reference: 1911-121
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-11					
Laboratory ID:	11-121-01					
1,1,2-Trichloroethane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Tetrachloroethene	0.057	0.00049	EPA 8260D	11-12-19	11-12-19	
1,3-Dichloropropane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
2-Hexanone	ND	0.0036	EPA 8260D	11-12-19	11-12-19	
Dibromochloromethane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
1,2-Dibromoethane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Chlorobenzene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
1,1,1,2-Tetrachloroethane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Ethylbenzene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
m,p-Xylene	ND	0.0024	EPA 8260D	11-12-19	11-12-19	
o-Xylene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Styrene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Bromoform	ND	0.0024	EPA 8260D	11-12-19	11-12-19	
Isopropylbenzene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Bromobenzene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
1,1,2,2-Tetrachloroethane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
1,2,3-Trichloropropane	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
n-Propylbenzene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
2-Chlorotoluene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
4-Chlorotoluene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
1,3,5-Trimethylbenzene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
tert-Butylbenzene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
1,2,4-Trimethylbenzene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
sec-Butylbenzene	0.00071	0.00049	EPA 8260D	11-12-19	11-12-19	
1,3-Dichlorobenzene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
p-Isopropyltoluene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
1,4-Dichlorobenzene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
1,2-Dichlorobenzene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
n-Butylbenzene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
1,2-Dibromo-3-chloropropane	ND	0.0024	EPA 8260D	11-12-19	11-12-19	
1,2,4-Trichlorobenzene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
Hexachlorobutadiene	ND	0.0024	EPA 8260D	11-12-19	11-12-19	
Naphthalene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
1,2,3-Trichlorobenzene	ND	0.00049	EPA 8260D	11-12-19	11-12-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>71-130</i>				



Date of Report: November 14, 2019
 Samples Submitted: November 12, 2019
 Laboratory Reference: 1911-121
 Project: 060172

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:	MB1112S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Chloromethane	ND	0.0050	EPA 8260D	11-12-19	11-12-19	
Vinyl Chloride	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Bromomethane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Chloroethane	ND	0.0050	EPA 8260D	11-12-19	11-12-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Acetone	ND	0.010	EPA 8260D	11-12-19	11-12-19	
Iodomethane	ND	0.0050	EPA 8260D	11-12-19	11-12-19	
Carbon Disulfide	ND	0.0014	EPA 8260D	11-12-19	11-12-19	
Methylene Chloride	ND	0.0050	EPA 8260D	11-12-19	11-12-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Vinyl Acetate	ND	0.0064	EPA 8260D	11-12-19	11-12-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
2-Butanone	ND	0.0050	EPA 8260D	11-12-19	11-12-19	
Bromochloromethane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Chloroform	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Benzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Trichloroethene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Dibromomethane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Bromodichloromethane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
2-Chloroethyl Vinyl Ether	ND	0.012	EPA 8260D	11-12-19	11-12-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Methyl Isobutyl Ketone	ND	0.0064	EPA 8260D	11-12-19	11-12-19	
Toluene	ND	0.0050	EPA 8260D	11-12-19	11-12-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	



Date of Report: November 14, 2019
 Samples Submitted: November 12, 2019
 Laboratory Reference: 1911-121
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1112S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Tetrachloroethene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
2-Hexanone	ND	0.0073	EPA 8260D	11-12-19	11-12-19	
Dibromochloromethane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Chlorobenzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Ethylbenzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
m,p-Xylene	ND	0.0050	EPA 8260D	11-12-19	11-12-19	
o-Xylene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Styrene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Bromoform	ND	0.0050	EPA 8260D	11-12-19	11-12-19	
Isopropylbenzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Bromobenzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
n-Propylbenzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
2-Chlorotoluene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
4-Chlorotoluene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
tert-Butylbenzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
sec-Butylbenzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
n-Butylbenzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	11-12-19	11-12-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	11-12-19	11-12-19	
Naphthalene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	11-12-19	11-12-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>71-130</i>				



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 Samples Submitted: November 12, 2019
 Laboratory Reference: 1911-121
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1112S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0404	0.0387	0.0500	0.0500	81	77	57-133	4	18	
Benzene	0.0495	0.0485	0.0500	0.0500	99	97	71-129	2	16	
Trichloroethene	0.0523	0.0510	0.0500	0.0500	105	102	71-122	3	16	
Toluene	0.0508	0.0482	0.0500	0.0500	102	96	74-125	5	15	
Chlorobenzene	0.0520	0.0498	0.0500	0.0500	104	100	72-120	4	14	
<i>Surrogate:</i>										
Dibromofluoromethane					96	97	76-131			
Toluene-d8					94	95	78-128			
4-Bromofluorobenzene					93	90	71-130			



Date of Report: November 14, 2019
 Samples Submitted: November 12, 2019
 Laboratory Reference: 1911-121
 Project: 060172

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-11					
Laboratory ID:	11-121-01					
Mineral Spirits	140	9.4	NWTPH-Gx	11-12-19	11-13-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>70</i>	<i>58-129</i>				



Date of Report: November 14, 2019
 Samples Submitted: November 12, 2019
 Laboratory Reference: 1911-121
 Project: 060172

**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:	MB1112S1					
Mineral Spirits	ND	5.0	NWTPH-Gx	11-12-19	11-12-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	81	58-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-110-02							
	ORIG	DUP						
Mineral Spirits	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
Fluorobenzene				89	87	58-129		



Date of Report: November 14, 2019
Samples Submitted: November 12, 2019
Laboratory Reference: 1911-121
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-11	11-121-01	19	11-12-19





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





Mw Onsite Environmental Inc.
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 983-9881 • www.onsite-env.com

Chain of Custody

Turnaround Request (In working days)

(Check One)

- Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (TPH analysis 5 Days)
 _____ (other)

Laboratory Number:

11-121

Company: Aspect Consulting
 Project Number: 060172
 Project Name: Spic N Spec
 Project Manager: Jeremy Tator & Debra Mussey
 Sampled by: Daniel Barback

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Laboratory Tests					Comments/Special Instructions										
						NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B		Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664
1	SS-11	11/11/19	1515	Soil	5					X										X	Mineral spirits ^{SO} NWTPH-Gx

Data Package: Level III Level IV Electronic Data Deliverables (EDDs)



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

December 16, 2019

Delia Massey
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suit 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 1912-108

Dear Delia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 12, 2019.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: December 16, 2019
Samples Submitted: December 12, 2019
Laboratory Reference: 1912-108
Project: 060172

Case Narrative

Samples were collected on December 12, 2019 and received by the laboratory on December 12, 2019. 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.

pH SM 4500-H B Analysis

Value reported is outside the calibration range and it is an estimate

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



Date of Report: December 16, 2019
 Samples Submitted: December 12, 2019
 Laboratory Reference: 1912-108
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Concrete Slurry-1					
Laboratory ID:	12-108-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Chloromethane	ND	1.0	EPA 8260D	12-12-19	12-12-19	
Vinyl Chloride	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Bromomethane	ND	0.48	EPA 8260D	12-12-19	12-12-19	
Chloroethane	ND	1.0	EPA 8260D	12-12-19	12-12-19	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Iodomethane	ND	2.3	EPA 8260D	12-12-19	12-12-19	
Methylene Chloride	ND	1.0	EPA 8260D	12-12-19	12-12-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Bromochloromethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Chloroform	6.1	0.20	EPA 8260D	12-12-19	12-12-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Trichloroethene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Dibromomethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Bromodichloromethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	12-12-19	12-12-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-12-19	12-12-19	



Date of Report: December 16, 2019
 Samples Submitted: December 12, 2019
 Laboratory Reference: 1912-108
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Concrete Slurry-1					
Laboratory ID:	12-108-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Tetrachloroethene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Dibromochloromethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Chlorobenzene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Bromoform	ND	1.0	EPA 8260D	12-12-19	12-12-19	
Bromobenzene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-12-19	12-12-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-12-19	12-12-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	83	75-127				
<i>Toluene-d8</i>	93	80-127				
<i>4-Bromofluorobenzene</i>	97	78-125				



Date of Report: December 16, 2019
 Samples Submitted: December 12, 2019
 Laboratory Reference: 1912-108
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1212W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Chloromethane	ND	1.0	EPA 8260D	12-12-19	12-12-19	
Vinyl Chloride	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Bromomethane	ND	0.48	EPA 8260D	12-12-19	12-12-19	
Chloroethane	ND	1.0	EPA 8260D	12-12-19	12-12-19	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Iodomethane	ND	2.3	EPA 8260D	12-12-19	12-12-19	
Methylene Chloride	ND	1.0	EPA 8260D	12-12-19	12-12-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Bromochloromethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Chloroform	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Trichloroethene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Dibromomethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Bromodichloromethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	12-12-19	12-12-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-12-19	12-12-19	



Date of Report: December 16, 2019
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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1212W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Tetrachloroethene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Dibromochloromethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Chlorobenzene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Bromoform	ND	1.0	EPA 8260D	12-12-19	12-12-19	
Bromobenzene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-12-19	12-12-19	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-12-19	12-12-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-12-19	12-12-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-12-19	12-12-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>85</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: December 16, 2019
 Samples Submitted: December 12, 2019
 Laboratory Reference: 1912-108
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1212W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.96	8.91	10.0	10.0	90	89	63-130	1	17	
Benzene	8.95	8.97	10.0	10.0	90	90	76-125	0	19	
Trichloroethene	9.65	9.80	10.0	10.0	97	98	76-121	2	18	
Toluene	9.61	9.59	10.0	10.0	96	96	80-124	0	18	
Chlorobenzene	9.80	9.81	10.0	10.0	98	98	75-120	0	19	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					85	85	75-127			
<i>Toluene-d8</i>					95	95	80-127			
<i>4-Bromofluorobenzene</i>					98	100	78-125			



Date of Report: December 16, 2019
Samples Submitted: December 12, 2019
Laboratory Reference: 1912-108
Project: 060172

pH
SM 4500-H B

Matrix: Water
Units: pH (@ 25°C)

Analyte	Result	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Concrete Slurry-1				
Laboratory ID:	12-108-01				
pH	12.7	SM 4500-H B	12-12-19	12-12-19	





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





MVA 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

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number:

12-108

Company: Aspect Consulting
 Project Number: 060172
 Project Name: Spic N Span
 Project Manager: Delia Messer + Jeremy Porter
 Sampled by: Daniel Beckwith

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	Concrete Slurry-1	12/12/14	0815	Water	3

Method	Result
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> 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	
HVOCs ^{DB}	X
PH	X
% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	<u>Aspect</u>	<u>12/12/14</u>	<u>0950</u>	<u>only 2 vials submitted, 1 vial broke.</u>
<u>[Signature]</u>	<u>Spic N Span</u>	<u>12/12/14</u>	<u>11:45 Am</u>	
<u>[Signature]</u>	<u>OSI</u>	<u>12/12/14</u>	<u>12:58</u>	
<u>[Signature]</u>	<u>MVA OnSite</u>	<u>12/18/14</u>	<u>1050</u>	

Relinquished

Received

Relinquished

Received

Relinquished

Received

Relinquished

Received

Relinquished

Reviewed/Date

Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

December 18, 2020

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2012-186

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on December 17, 2020.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: December 18, 2020
Samples Submitted: December 17, 2020
Laboratory Reference: 2012-186
Project: 060172

Case Narrative

Samples were collected on December 17, 2020 and received by the laboratory on December 17, 2020. 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: December 18, 2020
 Samples Submitted: December 17, 2020
 Laboratory Reference: 2012-186
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-12					
Laboratory ID:	12-186-01					
Dichlorodifluoromethane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Chloromethane	ND	0.0034	EPA 8260D	12-17-20	12-17-20	
Vinyl Chloride	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Bromomethane	ND	0.0034	EPA 8260D	12-17-20	12-17-20	
Chloroethane	ND	0.0034	EPA 8260D	12-17-20	12-17-20	
Trichlorofluoromethane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,1-Dichloroethene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Acetone	ND	0.0068	EPA 8260D	12-17-20	12-17-20	
Iodomethane	ND	0.0034	EPA 8260D	12-17-20	12-17-20	
Carbon Disulfide	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Methylene Chloride	ND	0.0034	EPA 8260D	12-17-20	12-17-20	
(trans) 1,2-Dichloroethene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Methyl t-Butyl Ether	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,1-Dichloroethane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Vinyl Acetate	ND	0.0034	EPA 8260D	12-17-20	12-17-20	
2,2-Dichloropropane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
(cis) 1,2-Dichloroethene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
2-Butanone	0.0079	0.0034	EPA 8260D	12-17-20	12-17-20	
Bromochloromethane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Chloroform	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,1,1-Trichloroethane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Carbon Tetrachloride	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,1-Dichloropropene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Benzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,2-Dichloroethane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Trichloroethene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,2-Dichloropropane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Dibromomethane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Bromodichloromethane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
2-Chloroethyl Vinyl Ether	ND	0.0034	EPA 8260D	12-17-20	12-17-20	
(cis) 1,3-Dichloropropene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Methyl Isobutyl Ketone	ND	0.0034	EPA 8260D	12-17-20	12-17-20	
Toluene	ND	0.0034	EPA 8260D	12-17-20	12-17-20	
(trans) 1,3-Dichloropropene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	



Date of Report: December 18, 2020
 Samples Submitted: December 17, 2020
 Laboratory Reference: 2012-186
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-12					
Laboratory ID:	12-186-01					
1,1,2-Trichloroethane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Tetrachloroethene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,3-Dichloropropane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
2-Hexanone	ND	0.0034	EPA 8260D	12-17-20	12-17-20	
Dibromochloromethane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,2-Dibromoethane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Chlorobenzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,1,1,2-Tetrachloroethane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Ethylbenzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
m,p-Xylene	ND	0.0014	EPA 8260D	12-17-20	12-17-20	
o-Xylene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Styrene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Bromoform	ND	0.0034	EPA 8260D	12-17-20	12-17-20	
Isopropylbenzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Bromobenzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,1,2,2-Tetrachloroethane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,2,3-Trichloropropane	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
n-Propylbenzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
2-Chlorotoluene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
4-Chlorotoluene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,3,5-Trimethylbenzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
tert-Butylbenzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,2,4-Trimethylbenzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
sec-Butylbenzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,3-Dichlorobenzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
p-Isopropyltoluene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,4-Dichlorobenzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,2-Dichlorobenzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
n-Butylbenzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
1,2-Dibromo-3-chloropropane	ND	0.0034	EPA 8260D	12-17-20	12-17-20	
1,2,4-Trichlorobenzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
Hexachlorobutadiene	ND	0.0034	EPA 8260D	12-17-20	12-17-20	
Naphthalene	ND	0.0043	EPA 8260D	12-17-20	12-17-20	
1,2,3-Trichlorobenzene	ND	0.00068	EPA 8260D	12-17-20	12-17-20	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-130</i>				



Date of Report: December 18, 2020
 Samples Submitted: December 17, 2020
 Laboratory Reference: 2012-186
 Project: 060172

**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:	MB1217S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Chloromethane	ND	0.0050	EPA 8260D	12-17-20	12-17-20	
Vinyl Chloride	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Bromomethane	ND	0.0050	EPA 8260D	12-17-20	12-17-20	
Chloroethane	ND	0.0050	EPA 8260D	12-17-20	12-17-20	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Acetone	ND	0.010	EPA 8260D	12-17-20	12-17-20	
Iodomethane	ND	0.0050	EPA 8260D	12-17-20	12-17-20	
Carbon Disulfide	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Methylene Chloride	ND	0.0050	EPA 8260D	12-17-20	12-17-20	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Vinyl Acetate	ND	0.0050	EPA 8260D	12-17-20	12-17-20	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
2-Butanone	ND	0.0050	EPA 8260D	12-17-20	12-17-20	
Bromochloromethane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Chloroform	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Benzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Trichloroethene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Dibromomethane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Bromodichloromethane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	12-17-20	12-17-20	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	12-17-20	12-17-20	
Toluene	ND	0.0050	EPA 8260D	12-17-20	12-17-20	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	



Date of Report: December 18, 2020
 Samples Submitted: December 17, 2020
 Laboratory Reference: 2012-186
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1217S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Tetrachloroethene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
2-Hexanone	ND	0.0050	EPA 8260D	12-17-20	12-17-20	
Dibromochloromethane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Chlorobenzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Ethylbenzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
m,p-Xylene	ND	0.0020	EPA 8260D	12-17-20	12-17-20	
o-Xylene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Styrene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Bromoform	ND	0.0050	EPA 8260D	12-17-20	12-17-20	
Isopropylbenzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Bromobenzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
n-Propylbenzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
2-Chlorotoluene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
4-Chlorotoluene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
tert-Butylbenzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
sec-Butylbenzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
n-Butylbenzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	12-17-20	12-17-20	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	12-17-20	12-17-20	
Naphthalene	ND	0.0063	EPA 8260D	12-17-20	12-17-20	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	12-17-20	12-17-20	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-130</i>				



Date of Report: December 18, 2020
 Samples Submitted: December 17, 2020
 Laboratory Reference: 2012-186
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1217S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0556	0.0521	0.0500	0.0500	111	104	55-126	6	17	
Benzene	0.0522	0.0506	0.0500	0.0500	104	101	65-121	3	16	
Trichloroethene	0.0583	0.0564	0.0500	0.0500	117	113	74-126	3	16	
Toluene	0.0543	0.0521	0.0500	0.0500	109	104	71-121	4	16	
Chlorobenzene	0.0581	0.0569	0.0500	0.0500	116	114	72-123	2	16	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					92	95	74-131			
<i>Toluene-d8</i>					95	93	78-128			
<i>4-Bromofluorobenzene</i>					92	93	71-130			



Date of Report: December 18, 2020
Samples Submitted: December 17, 2020
Laboratory Reference: 2012-186
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-12	12-186-01	17	12-17-20





Data Qualifiers and Abbreviations

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





MVA 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

Turnaround Request
(in working days)

(Check One)

- Same Day
 1 Day
 2 Days
 3 Days
 Standard (7 Days)

_____ (other)

Laboratory Number:

12-186

Company: Aspet Consulting
 Project Number: 060172
 Project Name: Spic N Span
 Project Manager: Jeremy Porter, Della Masley
 Sampled by: Baktr Cam

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	SS-12	12/17/20	1400	soil	4

Method	Result
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	X
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	X

Signature	Company	Date	Time	Comments/Special Instructions
<u>R Cam</u>	<u>Aspet</u>	<u>12/17/20</u>	<u>1440</u>	
<u>Michelle Riffine</u>	<u>USE</u>	<u>12/17/20</u>	<u>1440</u>	
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Reviewed/Date	Reviewed/Date			

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)

LGAC



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

August 31, 2021

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2108-263

Dear Jeremy:

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

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: August 31, 2021
Samples Submitted: August 25, 2021
Laboratory Reference: 2108-263
Project: 060172

Case Narrative

Samples were collected on August 25, 2021 and received by the laboratory on August 25, 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.

HEM-Oil and Grease EPA 1664A Analysis

The three samples were made into a composite prior to extraction. The initial volume for this composite was brought up to 1000mL with de-ionized water.

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: August 31, 2021
 Samples Submitted: August 25, 2021
 Laboratory Reference: 2108-263
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-1-082521					
Laboratory ID:	08-263-01					
Dichlorodifluoromethane	ND	0.31	EPA 8260D	8-26-21	8-26-21	
Chloromethane	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Vinyl Chloride	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromomethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Chloroethane	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Acetone	ND	5.0	EPA 8260D	8-26-21	8-26-21	
Iodomethane	ND	5.0	EPA 8260D	8-26-21	8-26-21	
Carbon Disulfide	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Methylene Chloride	ND	1.0	EPA 8260D	8-26-21	8-26-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Vinyl Acetate	ND	1.0	EPA 8260D	8-26-21	8-26-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
2-Butanone	ND	5.0	EPA 8260D	8-26-21	8-26-21	
Bromochloromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Chloroform	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Benzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Trichloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Dibromomethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromodichloromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260D	8-26-21	8-26-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-26-21	8-26-21	
Toluene	ND	1.0	EPA 8260D	8-26-21	8-26-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-26-21	8-26-21	



Date of Report: August 31, 2021
 Samples Submitted: August 25, 2021
 Laboratory Reference: 2108-263
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-1-082521					
Laboratory ID:	08-263-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Tetrachloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
2-Hexanone	ND	2.0	EPA 8260D	8-26-21	8-26-21	
Dibromochloromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Chlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Ethylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
m,p-Xylene	ND	0.40	EPA 8260D	8-26-21	8-26-21	
o-Xylene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Styrene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromoform	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Isopropylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2,3-Trichloropropane	ND	0.31	EPA 8260D	8-26-21	8-26-21	
n-Propylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
n-Butylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	8-26-21	8-26-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Naphthalene	ND	1.4	EPA 8260D	8-26-21	8-26-21	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260D	8-26-21	8-26-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>78-125</i>				



Date of Report: August 31, 2021
 Samples Submitted: August 25, 2021
 Laboratory Reference: 2108-263
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-INF-1-082521					
Laboratory ID:	08-263-04					
Dichlorodifluoromethane	ND	0.31	EPA 8260D	8-26-21	8-26-21	
Chloromethane	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Vinyl Chloride	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromomethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Chloroethane	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Acetone	190	50	EPA 8260D	8-26-21	8-26-21	
Iodomethane	ND	5.0	EPA 8260D	8-26-21	8-26-21	
Carbon Disulfide	0.42	0.20	EPA 8260D	8-26-21	8-26-21	Y
Methylene Chloride	ND	1.0	EPA 8260D	8-26-21	8-26-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Vinyl Acetate	ND	1.0	EPA 8260D	8-26-21	8-26-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
(cis) 1,2-Dichloroethene	2.1	0.20	EPA 8260D	8-26-21	8-26-21	
2-Butanone	25	5.0	EPA 8260D	8-26-21	8-26-21	
Bromochloromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Chloroform	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Benzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dichloroethane	0.47	0.20	EPA 8260D	8-26-21	8-26-21	
Trichloroethene	1.8	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Dibromomethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromodichloromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260D	8-26-21	8-26-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-26-21	8-26-21	
Toluene	ND	1.0	EPA 8260D	8-26-21	8-26-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-26-21	8-26-21	



Date of Report: August 31, 2021
 Samples Submitted: August 25, 2021
 Laboratory Reference: 2108-263
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-INF-1-082521					
Laboratory ID:	08-263-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Tetrachloroethene	24	0.20	EPA 8260D	8-26-21	8-26-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
2-Hexanone	ND	2.0	EPA 8260D	8-26-21	8-26-21	
Dibromochloromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Chlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Ethylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
m,p-Xylene	ND	0.40	EPA 8260D	8-26-21	8-26-21	
o-Xylene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Styrene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromoform	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Isopropylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2,3-Trichloropropane	ND	0.31	EPA 8260D	8-26-21	8-26-21	
n-Propylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2,4-Trimethylbenzene	0.22	0.20	EPA 8260D	8-26-21	8-26-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
n-Butylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	8-26-21	8-26-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Naphthalene	ND	1.4	EPA 8260D	8-26-21	8-26-21	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260D	8-26-21	8-26-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: August 31, 2021
 Samples Submitted: August 25, 2021
 Laboratory Reference: 2108-263
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-MID-1-082521					
Laboratory ID:	08-263-07					
Dichlorodifluoromethane	ND	0.31	EPA 8260D	8-26-21	8-26-21	
Chloromethane	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Vinyl Chloride	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromomethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Chloroethane	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Acetone	ND	5.0	EPA 8260D	8-26-21	8-26-21	
Iodomethane	ND	5.0	EPA 8260D	8-26-21	8-26-21	
Carbon Disulfide	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Methylene Chloride	ND	1.0	EPA 8260D	8-26-21	8-26-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Vinyl Acetate	ND	1.0	EPA 8260D	8-26-21	8-26-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
2-Butanone	ND	5.0	EPA 8260D	8-26-21	8-26-21	
Bromochloromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Chloroform	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Benzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Trichloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Dibromomethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromodichloromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260D	8-26-21	8-26-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-26-21	8-26-21	
Toluene	ND	1.0	EPA 8260D	8-26-21	8-26-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-26-21	8-26-21	



Date of Report: August 31, 2021
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 Laboratory Reference: 2108-263
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-MID-1-082521					
Laboratory ID:	08-263-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Tetrachloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
2-Hexanone	ND	2.0	EPA 8260D	8-26-21	8-26-21	
Dibromochloromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Chlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Ethylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
m,p-Xylene	ND	0.40	EPA 8260D	8-26-21	8-26-21	
o-Xylene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Styrene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromoform	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Isopropylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2,3-Trichloropropane	ND	0.31	EPA 8260D	8-26-21	8-26-21	
n-Propylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
n-Butylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	8-26-21	8-26-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Naphthalene	ND	1.4	EPA 8260D	8-26-21	8-26-21	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260D	8-26-21	8-26-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: August 31, 2021
 Samples Submitted: August 25, 2021
 Laboratory Reference: 2108-263
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0826W1					
Dichlorodifluoromethane	ND	0.31	EPA 8260D	8-26-21	8-26-21	
Chloromethane	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Vinyl Chloride	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromomethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Chloroethane	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Acetone	ND	5.0	EPA 8260D	8-26-21	8-26-21	
Iodomethane	ND	5.0	EPA 8260D	8-26-21	8-26-21	
Carbon Disulfide	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Methylene Chloride	ND	1.0	EPA 8260D	8-26-21	8-26-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Vinyl Acetate	ND	1.0	EPA 8260D	8-26-21	8-26-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
2-Butanone	ND	5.0	EPA 8260D	8-26-21	8-26-21	
Bromochloromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Chloroform	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Benzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Trichloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Dibromomethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromodichloromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260D	8-26-21	8-26-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-26-21	8-26-21	
Toluene	ND	1.0	EPA 8260D	8-26-21	8-26-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-26-21	8-26-21	



Date of Report: August 31, 2021
 Samples Submitted: August 25, 2021
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 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0826W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Tetrachloroethene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
2-Hexanone	ND	2.0	EPA 8260D	8-26-21	8-26-21	
Dibromochloromethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Chlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Ethylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
m,p-Xylene	ND	0.40	EPA 8260D	8-26-21	8-26-21	
o-Xylene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Styrene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromoform	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Isopropylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Bromobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2,3-Trichloropropane	ND	0.31	EPA 8260D	8-26-21	8-26-21	
n-Propylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
n-Butylbenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	8-26-21	8-26-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-26-21	8-26-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-26-21	8-26-21	
Naphthalene	ND	1.4	EPA 8260D	8-26-21	8-26-21	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260D	8-26-21	8-26-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: August 31, 2021
 Samples Submitted: August 25, 2021
 Laboratory Reference: 2108-263
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0826W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.5	10.4	10.0	10.0	105	104	78-124	1	19	
Benzene	10.4	10.4	10.0	10.0	104	104	80-119	0	16	
Trichloroethene	10.6	10.4	10.0	10.0	106	104	80-121	2	18	
Toluene	10.2	10.2	10.0	10.0	102	102	80-117	0	18	
Chlorobenzene	9.70	9.70	10.0	10.0	97	97	80-117	0	17	
<i>Surrogate:</i>										
Dibromofluoromethane					102	102	75-127			
Toluene-d8					102	100	80-127			
4-Bromofluorobenzene					100	100	78-125			



Date of Report: August 31, 2021
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 Laboratory Reference: 2108-263
 Project: 060172

**HEXANE EXTRACTABLE MATERIAL
 NON-POLAR
 EPA 1664**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-1,2,3-082521 Comp.					
Laboratory ID:	08-263-01,02,03 Comp.					
Non Polar HEM	ND	6.3	EPA 1664A	8-30-21	8-30-21	

Client ID:	LGAC-INF-1,2,3-082521 Comp.					
Laboratory ID:	08-263-04,05,06 Comp.					
Non Polar HEM	ND	7.0	EPA 1664A	8-30-21	8-30-21	

Client ID:	LGAC-MID-1,2,3-082521 Comp.					
Laboratory ID:	08-263-07,08,09 Comp.					
Non Polar HEM	ND	6.5	EPA 1664A	8-30-21	8-30-21	



Date of Report: August 31, 2021
 Samples Submitted: August 25, 2021
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 Project: 060172

**HEXANE EXTRACTABLE MATERIAL
 NON-POLAR
 EPA 1664
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0830W1					
Non Polar HEM	ND	5.0	EPA 1664A	8-30-21	8-30-21	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0830W1									
	SB	SBD	SB	SBD	SB	SBD				
Non Polar HEM	17.8	19.4	20.0	20.0	89	97	66-105	9	19	



Date of Report: August 31, 2021
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 Laboratory Reference: 2108-263
 Project: 060172

pH SM 4500-H B

Matrix: Water
 Units: pH (@ 25°C)

Analyte	Result	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-1-082521				
Laboratory ID:	08-263-01				
pH	8.0	SM 4500-H B	8-26-21	8-26-21	

Client ID:	LGAC-INF-1-082521				
Laboratory ID:	08-263-04				
pH	6.5	SM 4500-H B	8-26-21	8-26-21	

Client ID:	LGAC-MID-1-082521				
Laboratory ID:	08-263-07				
pH	8.2	SM 4500-H B	8-26-21	8-26-21	





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MA 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

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number:

08-263

Company: Aspect consulting		Project Number: 0800172		Project Name: Spic'N Span		Project Manager: Jeremy Porter		Sampled by: DRB MMR	
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers		Laboratory Tests		
1	LGAC-EFF-1-082521	08/25/21	1237	water	6		NWTPH-HCID		
2	LGAC-EFF-2-082521	08/25/21	1242		2		NWTPH-Gx/BTEX		
3	LGAC-EFF-3-082521	08/25/21	1247		2		NWTPH-Gx		
4	LGAC-INF-1-082521		1237		6		NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)		
5	LGAC-INF-2-082521		1242		2		Volatiles 8260D		
6	LGAC-INF-3-082521		1247		2		Halogenated Volatiles 8260D		
7	LGAC-MID-1-082521		1302		6		EDB EPA 8011 (Waters Only)		
8	LGAC-MID-2-082521		1307		2		Semivolatiles 8270E/SIM (with low-level PAHs)		
9	LGAC-MID-3-082521		1312		2		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		
							Nonpolar FOG		
							PH		
							% Moisture		
	Signature: <i>[Handwritten Signature]</i>	Company: Aspect		Date: 08/25/21	Time: 1406	Comments/Special Instructions: Composite EFF 1-3 for nonpolar FOG, composite INF 1-3 for nonpolar FOG, composite MID 1-3 for nonpolar FOG. (X) Added 8/26/21. 08 (STA)			
Received		Received		Received		Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>			
Relinquished		Relinquished		Relinquished		Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>			
Reviewed/Date		Reviewed/Date		Reviewed/Date					



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

September 17, 2021

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2109-115

Dear Jeremy:

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

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 17, 2021
Samples Submitted: September 14, 2021
Laboratory Reference: 2109-115
Project: 060172

Case Narrative

Samples were collected on September 14, 2021 and received by the laboratory on September 14, 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.

HEM-Oil and Grease EPA 1664A Analysis

The three samples were made into a composite prior to extraction. The initial volume for this composite was brought up to 1000mL with de-ionized water.

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: September 17, 2021
 Samples Submitted: September 14, 2021
 Laboratory Reference: 2109-115
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-1-EFF-091421					
Laboratory ID:	09-115-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Chloromethane	ND	1.0	EPA 8260D	9-15-21	9-15-21	
Vinyl Chloride	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Bromomethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Chloroethane	ND	1.0	EPA 8260D	9-15-21	9-15-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Acetone	ND	5.0	EPA 8260D	9-15-21	9-15-21	
Iodomethane	ND	1.4	EPA 8260D	9-15-21	9-15-21	
Carbon Disulfide	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Methylene Chloride	ND	1.0	EPA 8260D	9-15-21	9-15-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Vinyl Acetate	ND	1.0	EPA 8260D	9-15-21	9-15-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
2-Butanone	ND	5.0	EPA 8260D	9-15-21	9-15-21	
Bromochloromethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Chloroform	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Benzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Trichloroethene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Dibromomethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Bromodichloromethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	9-15-21	9-15-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	9-15-21	9-15-21	
Toluene	ND	1.0	EPA 8260D	9-15-21	9-15-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-15-21	9-15-21	



Date of Report: September 17, 2021
 Samples Submitted: September 14, 2021
 Laboratory Reference: 2109-115
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-1-EFF-091421					
Laboratory ID:	09-115-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Tetrachloroethene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
2-Hexanone	ND	2.0	EPA 8260D	9-15-21	9-15-21	
Dibromochloromethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Chlorobenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Ethylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
m,p-Xylene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
o-Xylene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Styrene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Bromoform	ND	1.0	EPA 8260D	9-15-21	9-15-21	
Isopropylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Bromobenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
n-Propylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
n-Butylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	9-15-21	9-15-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	9-15-21	9-15-21	
Naphthalene	ND	1.0	EPA 8260D	9-15-21	9-15-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: September 17, 2021
 Samples Submitted: September 14, 2021
 Laboratory Reference: 2109-115
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-1-INF-091421					
Laboratory ID:	09-115-04					
Dichlorodifluoromethane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Chloromethane	ND	20	EPA 8260D	9-15-21	9-15-21	
Vinyl Chloride	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Bromomethane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Chloroethane	ND	20	EPA 8260D	9-15-21	9-15-21	
Trichlorofluoromethane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,1-Dichloroethene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Acetone	1400	100	EPA 8260D	9-15-21	9-15-21	
Iodomethane	ND	28	EPA 8260D	9-15-21	9-15-21	
Carbon Disulfide	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Methylene Chloride	ND	20	EPA 8260D	9-15-21	9-15-21	
(trans) 1,2-Dichloroethene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Methyl t-Butyl Ether	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,1-Dichloroethane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Vinyl Acetate	ND	20	EPA 8260D	9-15-21	9-15-21	
2,2-Dichloropropane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
(cis) 1,2-Dichloroethene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
2-Butanone	140	100	EPA 8260D	9-15-21	9-15-21	
Bromochloromethane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Chloroform	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,1,1-Trichloroethane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Carbon Tetrachloride	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,1-Dichloropropene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Benzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,2-Dichloroethane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Trichloroethene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,2-Dichloropropane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Dibromomethane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Bromodichloromethane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
2-Chloroethyl Vinyl Ether	ND	20	EPA 8260D	9-15-21	9-15-21	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Methyl Isobutyl Ketone	ND	40	EPA 8260D	9-15-21	9-15-21	
Toluene	ND	20	EPA 8260D	9-15-21	9-15-21	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260D	9-15-21	9-15-21	



Date of Report: September 17, 2021
 Samples Submitted: September 14, 2021
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 Project: 060172

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-1-INF-091421					
Laboratory ID:	09-115-04					
1,1,2-Trichloroethane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Tetrachloroethene	30	4.0	EPA 8260D	9-15-21	9-15-21	
1,3-Dichloropropane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
2-Hexanone	ND	40	EPA 8260D	9-15-21	9-15-21	
Dibromochloromethane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,2-Dibromoethane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Chlorobenzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Ethylbenzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
m,p-Xylene	ND	8.0	EPA 8260D	9-15-21	9-15-21	
o-Xylene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Styrene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Bromoform	ND	20	EPA 8260D	9-15-21	9-15-21	
Isopropylbenzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Bromobenzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,2,3-Trichloropropane	ND	4.0	EPA 8260D	9-15-21	9-15-21	
n-Propylbenzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
2-Chlorotoluene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
4-Chlorotoluene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,3,5-Trimethylbenzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
tert-Butylbenzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,2,4-Trimethylbenzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
sec-Butylbenzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,3-Dichlorobenzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
p-Isopropyltoluene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,4-Dichlorobenzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,2-Dichlorobenzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
n-Butylbenzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260D	9-15-21	9-15-21	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Hexachlorobutadiene	ND	20	EPA 8260D	9-15-21	9-15-21	
Naphthalene	ND	20	EPA 8260D	9-15-21	9-15-21	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260D	9-15-21	9-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: September 17, 2021
 Samples Submitted: September 14, 2021
 Laboratory Reference: 2109-115
 Project: 060172

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-1-MID-091421					
Laboratory ID:	09-115-07					
Dichlorodifluoromethane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Chloromethane	ND	2.0	EPA 8260D	9-15-21	9-15-21	
Vinyl Chloride	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Bromomethane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Chloroethane	ND	2.0	EPA 8260D	9-15-21	9-15-21	
Trichlorofluoromethane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,1-Dichloroethene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Acetone	230	25	EPA 8260D	9-15-21	9-15-21	
Iodomethane	ND	2.8	EPA 8260D	9-15-21	9-15-21	
Carbon Disulfide	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Methylene Chloride	ND	2.0	EPA 8260D	9-15-21	9-15-21	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Methyl t-Butyl Ether	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,1-Dichloroethane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Vinyl Acetate	ND	2.0	EPA 8260D	9-15-21	9-15-21	
2,2-Dichloropropane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
2-Butanone	ND	10	EPA 8260D	9-15-21	9-15-21	
Bromochloromethane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Chloroform	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,1,1-Trichloroethane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Carbon Tetrachloride	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,1-Dichloropropene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Benzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,2-Dichloroethane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Trichloroethene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,2-Dichloropropane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Dibromomethane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Bromodichloromethane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260D	9-15-21	9-15-21	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Methyl Isobutyl Ketone	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Toluene	ND	2.0	EPA 8260D	9-15-21	9-15-21	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260D	9-15-21	9-15-21	



Date of Report: September 17, 2021
 Samples Submitted: September 14, 2021
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-1-MID-091421					
Laboratory ID:	09-115-07					
1,1,2-Trichloroethane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Tetrachloroethene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,3-Dichloropropane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
2-Hexanone	ND	4.0	EPA 8260D	9-15-21	9-15-21	
Dibromochloromethane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,2-Dibromoethane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Chlorobenzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Ethylbenzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
m,p-Xylene	ND	0.80	EPA 8260D	9-15-21	9-15-21	
o-Xylene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Styrene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Bromoform	ND	2.0	EPA 8260D	9-15-21	9-15-21	
Isopropylbenzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Bromobenzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,2,3-Trichloropropane	ND	0.40	EPA 8260D	9-15-21	9-15-21	
n-Propylbenzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
2-Chlorotoluene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
4-Chlorotoluene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,3,5-Trimethylbenzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
tert-Butylbenzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,2,4-Trimethylbenzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
sec-Butylbenzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,3-Dichlorobenzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
p-Isopropyltoluene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,4-Dichlorobenzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,2-Dichlorobenzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
n-Butylbenzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260D	9-15-21	9-15-21	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
Hexachlorobutadiene	ND	2.0	EPA 8260D	9-15-21	9-15-21	
Naphthalene	ND	2.0	EPA 8260D	9-15-21	9-15-21	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: September 17, 2021
 Samples Submitted: September 14, 2021
 Laboratory Reference: 2109-115
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Chloromethane	ND	1.0	EPA 8260D	9-15-21	9-15-21	
Vinyl Chloride	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Bromomethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Chloroethane	ND	1.0	EPA 8260D	9-15-21	9-15-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Acetone	ND	5.0	EPA 8260D	9-15-21	9-15-21	
Iodomethane	ND	1.4	EPA 8260D	9-15-21	9-15-21	
Carbon Disulfide	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Methylene Chloride	ND	1.0	EPA 8260D	9-15-21	9-15-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Vinyl Acetate	ND	1.0	EPA 8260D	9-15-21	9-15-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
2-Butanone	ND	5.0	EPA 8260D	9-15-21	9-15-21	
Bromochloromethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Chloroform	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Benzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Trichloroethene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Dibromomethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Bromodichloromethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	9-15-21	9-15-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	9-15-21	9-15-21	
Toluene	ND	1.0	EPA 8260D	9-15-21	9-15-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-15-21	9-15-21	



Date of Report: September 17, 2021
 Samples Submitted: September 14, 2021
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 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Tetrachloroethene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
2-Hexanone	ND	2.0	EPA 8260D	9-15-21	9-15-21	
Dibromochloromethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Chlorobenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Ethylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
m,p-Xylene	ND	0.40	EPA 8260D	9-15-21	9-15-21	
o-Xylene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Styrene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Bromoform	ND	1.0	EPA 8260D	9-15-21	9-15-21	
Isopropylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Bromobenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-15-21	9-15-21	
n-Propylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
n-Butylbenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	9-15-21	9-15-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	9-15-21	9-15-21	
Naphthalene	ND	1.0	EPA 8260D	9-15-21	9-15-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	9-15-21	9-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: September 17, 2021
 Samples Submitted: September 14, 2021
 Laboratory Reference: 2109-115
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0915W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.26	9.45	10.0	10.0	93	95	78-124	2	19	
Benzene	8.96	9.04	10.0	10.0	90	90	80-119	1	16	
Trichloroethene	9.77	9.70	10.0	10.0	98	97	80-121	1	18	
Toluene	9.32	9.24	10.0	10.0	93	92	80-117	1	18	
Chlorobenzene	9.84	9.98	10.0	10.0	98	100	80-117	1	17	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					98	97	75-127			
<i>Toluene-d8</i>					99	97	80-127			
<i>4-Bromofluorobenzene</i>					102	102	78-125			



Date of Report: September 17, 2021
 Samples Submitted: September 14, 2021
 Laboratory Reference: 2109-115
 Project: 060172

**HEXANE EXTRACTABLE MATERIAL
 NON-POLAR
 EPA 1664**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-1,2,3-EFF-091421 Comp.					
Laboratory ID:	09-115-01,02,03 Comp.					
Non Polar HEM	ND	6.8	EPA 1664A	9-17-21	9-17-21	

Client ID:	LGAC-1,2,3-INF-091421 Comp.					
Laboratory ID:	09-115-04,05,06 Comp.					
Non Polar HEM	ND	6.5	EPA 1664A	9-17-21	9-17-21	



Date of Report: September 17, 2021
 Samples Submitted: September 14, 2021
 Laboratory Reference: 2109-115
 Project: 060172

**HEXANE EXTRACTABLE MATERIAL
 NON-POLAR
 EPA 1664
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0917W1					
Non Polar HEM	ND	5.0	EPA 1664A	9-17-21	9-17-21	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0917W1									
	SB	SBD	SB	SBD	SB	SBD				
Non Polar HEM	14.0	14.1	20.0	20.0	70	71	66-105	1	19	





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





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

Chain of Custody

Company: **Aspect Consulting**

Project Number: **0600172**

Project Name: **Spice 'N Span**

Project Manager: **Jeremy Porter**

Sampled by: **Monique Rutte**

Turnaround Request
(in working days)

(Check One)

- Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 _____ (other)

Laboratory Number: 109-115

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers		Date	Time	Comments/Special Instructions
1	LGAC-2-EFF-091421	09/14/21	12:16	Water	1	1	09/14/21	15:40	* 2 oz. glass jars submitted on hold - FOG sampling was not completed.
2	LGAC-2-EFF-091421		12:21		2	0			
3	LGAC-3-EFF-091421		12:20		2	0			
4	LGAC-1-INF-091421		12:32		6	0			
5	LGAC-2-INF-091421		12:37		2	0			
6	LGAC-3-INF-091421		12:42		2	0			
7	LGAC-1-MID-091421*		12:49		6	0			

	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> 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	NONPOLAR FOG	% Moisture
					<input checked="" type="checkbox"/>														

Signature	Company	Date	Time	Comments/Special Instructions
<i>Monique Rutte</i>	Aspect	09/14/21	15:40	* 2 oz. glass jars submitted on hold - FOG sampling was not completed.
<i>JP</i>	OSB	9-14-21	15:16	

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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

October 25, 2021

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2110-168

Dear Jeremy:

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

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: October 25, 2021
Samples Submitted: October 20, 2021
Laboratory Reference: 2110-168
Project: 060172

Case Narrative

Samples were collected on October 20, 2021 and received by the laboratory on October 20, 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-Gx Analysis

The chromatogram for sample LGAC-INF-1-102021 is not similar to a typical gas.

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



Date of Report: October 25, 2021
 Samples Submitted: October 20, 2021
 Laboratory Reference: 2110-168
 Project: 060172

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-INF-1-102021					
Laboratory ID:	10-168-02					
Gasoline	710	500	NWTPH-Gx	10-21-21	10-21-21	T
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>91</i>	<i>66-117</i>				



Date of Report: October 25, 2021
 Samples Submitted: October 20, 2021
 Laboratory Reference: 2110-168
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1021W1					
Gasoline	ND	100	NWTPH-Gx	10-21-21	10-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-168-02							
	ORIG	DUP						
Gasoline	710	780	NA	NA	NA	NA	9	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				91	92	66-117		



Date of Report: October 25, 2021
 Samples Submitted: October 20, 2021
 Laboratory Reference: 2110-168
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-1-102021					
Laboratory ID:	10-168-01					
Dichlorodifluoromethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Chloromethane	ND	50	EPA 8260D	10-21-21	10-21-21	
Vinyl Chloride	ND	10	EPA 8260D	10-21-21	10-21-21	
Bromomethane	ND	120	EPA 8260D	10-21-21	10-21-21	
Chloroethane	ND	50	EPA 8260D	10-21-21	10-21-21	
Trichlorofluoromethane	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1-Dichloroethene	ND	10	EPA 8260D	10-21-21	10-21-21	
Acetone	2100	250	EPA 8260D	10-21-21	10-21-21	
Iodomethane	ND	110	EPA 8260D	10-21-21	10-21-21	
Carbon Disulfide	ND	10	EPA 8260D	10-21-21	10-21-21	
Methylene Chloride	ND	50	EPA 8260D	10-21-21	10-21-21	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260D	10-21-21	10-21-21	
Methyl t-Butyl Ether	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1-Dichloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Vinyl Acetate	ND	50	EPA 8260D	10-21-21	10-21-21	
2,2-Dichloropropane	ND	10	EPA 8260D	10-21-21	10-21-21	
(cis) 1,2-Dichloroethene	ND	10	EPA 8260D	10-21-21	10-21-21	
2-Butanone	ND	250	EPA 8260D	10-21-21	10-21-21	
Bromochloromethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Chloroform	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1,1-Trichloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Carbon Tetrachloride	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1-Dichloropropene	ND	10	EPA 8260D	10-21-21	10-21-21	
Benzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2-Dichloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Trichloroethene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2-Dichloropropane	ND	10	EPA 8260D	10-21-21	10-21-21	
Dibromomethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Bromodichloromethane	ND	10	EPA 8260D	10-21-21	10-21-21	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260D	10-21-21	10-21-21	
Methyl Isobutyl Ketone	ND	100	EPA 8260D	10-21-21	10-21-21	
Toluene	ND	50	EPA 8260D	10-21-21	10-21-21	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260D	10-21-21	10-21-21	



Date of Report: October 25, 2021
 Samples Submitted: October 20, 2021
 Laboratory Reference: 2110-168
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-1-102021					
Laboratory ID:	10-168-01					
1,1,2-Trichloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Tetrachloroethene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,3-Dichloropropane	ND	10	EPA 8260D	10-21-21	10-21-21	
2-Hexanone	ND	100	EPA 8260D	10-21-21	10-21-21	
Dibromochloromethane	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2-Dibromoethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Chlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Ethylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
m,p-Xylene	ND	20	EPA 8260D	10-21-21	10-21-21	
o-Xylene	ND	10	EPA 8260D	10-21-21	10-21-21	
Styrene	ND	10	EPA 8260D	10-21-21	10-21-21	
Bromoform	ND	50	EPA 8260D	10-21-21	10-21-21	
Isopropylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
Bromobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2,3-Trichloropropane	ND	10	EPA 8260D	10-21-21	10-21-21	
n-Propylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
2-Chlorotoluene	ND	10	EPA 8260D	10-21-21	10-21-21	
4-Chlorotoluene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,3,5-Trimethylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
tert-Butylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2,4-Trimethylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
sec-Butylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,3-Dichlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
p-Isopropyltoluene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,4-Dichlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2-Dichlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
n-Butylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260D	10-21-21	10-21-21	
1,2,4-Trichlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
Hexachlorobutadiene	ND	50	EPA 8260D	10-21-21	10-21-21	
Naphthalene	ND	50	EPA 8260D	10-21-21	10-21-21	
1,2,3-Trichlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	75-127				
<i>Toluene-d8</i>	99	80-127				
<i>4-Bromofluorobenzene</i>	98	78-125				



Date of Report: October 25, 2021
 Samples Submitted: October 20, 2021
 Laboratory Reference: 2110-168
 Project: 060172

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-INF-1-102021					
Laboratory ID:	10-168-02					
Dichlorodifluoromethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Chloromethane	ND	50	EPA 8260D	10-21-21	10-21-21	
Vinyl Chloride	ND	10	EPA 8260D	10-21-21	10-21-21	
Bromomethane	ND	120	EPA 8260D	10-21-21	10-21-21	
Chloroethane	ND	50	EPA 8260D	10-21-21	10-21-21	
Trichlorofluoromethane	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1-Dichloroethene	ND	10	EPA 8260D	10-21-21	10-21-21	
Acetone	3600	250	EPA 8260D	10-21-21	10-21-21	
Iodomethane	ND	110	EPA 8260D	10-21-21	10-21-21	
Carbon Disulfide	ND	10	EPA 8260D	10-21-21	10-21-21	
Methylene Chloride	ND	50	EPA 8260D	10-21-21	10-21-21	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260D	10-21-21	10-21-21	
Methyl t-Butyl Ether	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1-Dichloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Vinyl Acetate	ND	50	EPA 8260D	10-21-21	10-21-21	
2,2-Dichloropropane	ND	10	EPA 8260D	10-21-21	10-21-21	
(cis) 1,2-Dichloroethene	ND	10	EPA 8260D	10-21-21	10-21-21	
2-Butanone	400	250	EPA 8260D	10-21-21	10-21-21	
Bromochloromethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Chloroform	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1,1-Trichloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Carbon Tetrachloride	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1-Dichloropropene	ND	10	EPA 8260D	10-21-21	10-21-21	
Benzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2-Dichloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Trichloroethene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2-Dichloropropane	ND	10	EPA 8260D	10-21-21	10-21-21	
Dibromomethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Bromodichloromethane	ND	10	EPA 8260D	10-21-21	10-21-21	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260D	10-21-21	10-21-21	
Methyl Isobutyl Ketone	ND	100	EPA 8260D	10-21-21	10-21-21	
Toluene	ND	50	EPA 8260D	10-21-21	10-21-21	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260D	10-21-21	10-21-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-INF-1-102021					
Laboratory ID:	10-168-02					
1,1,2-Trichloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Tetrachloroethene	12	10	EPA 8260D	10-21-21	10-21-21	
1,3-Dichloropropane	ND	10	EPA 8260D	10-21-21	10-21-21	
2-Hexanone	ND	100	EPA 8260D	10-21-21	10-21-21	
Dibromochloromethane	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2-Dibromoethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Chlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Ethylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
m,p-Xylene	ND	20	EPA 8260D	10-21-21	10-21-21	
o-Xylene	ND	10	EPA 8260D	10-21-21	10-21-21	
Styrene	ND	10	EPA 8260D	10-21-21	10-21-21	
Bromoform	ND	50	EPA 8260D	10-21-21	10-21-21	
Isopropylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
Bromobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2,3-Trichloropropane	ND	10	EPA 8260D	10-21-21	10-21-21	
n-Propylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
2-Chlorotoluene	ND	10	EPA 8260D	10-21-21	10-21-21	
4-Chlorotoluene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,3,5-Trimethylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
tert-Butylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2,4-Trimethylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
sec-Butylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,3-Dichlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
p-Isopropyltoluene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,4-Dichlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2-Dichlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
n-Butylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260D	10-21-21	10-21-21	
1,2,4-Trichlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
Hexachlorobutadiene	ND	50	EPA 8260D	10-21-21	10-21-21	
Naphthalene	130	50	EPA 8260D	10-21-21	10-21-21	
1,2,3-Trichlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-MID-1-102021					
Laboratory ID:	10-168-03					
Dichlorodifluoromethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Chloromethane	ND	50	EPA 8260D	10-21-21	10-21-21	
Vinyl Chloride	ND	10	EPA 8260D	10-21-21	10-21-21	
Bromomethane	ND	120	EPA 8260D	10-21-21	10-21-21	
Chloroethane	ND	50	EPA 8260D	10-21-21	10-21-21	
Trichlorofluoromethane	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1-Dichloroethene	ND	10	EPA 8260D	10-21-21	10-21-21	
Acetone	2900	250	EPA 8260D	10-21-21	10-21-21	
Iodomethane	ND	110	EPA 8260D	10-21-21	10-21-21	
Carbon Disulfide	ND	10	EPA 8260D	10-21-21	10-21-21	
Methylene Chloride	ND	50	EPA 8260D	10-21-21	10-21-21	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260D	10-21-21	10-21-21	
Methyl t-Butyl Ether	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1-Dichloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Vinyl Acetate	ND	50	EPA 8260D	10-21-21	10-21-21	
2,2-Dichloropropane	ND	10	EPA 8260D	10-21-21	10-21-21	
(cis) 1,2-Dichloroethene	ND	10	EPA 8260D	10-21-21	10-21-21	
2-Butanone	ND	250	EPA 8260D	10-21-21	10-21-21	
Bromochloromethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Chloroform	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1,1-Trichloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Carbon Tetrachloride	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1-Dichloropropene	ND	10	EPA 8260D	10-21-21	10-21-21	
Benzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2-Dichloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Trichloroethene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2-Dichloropropane	ND	10	EPA 8260D	10-21-21	10-21-21	
Dibromomethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Bromodichloromethane	ND	10	EPA 8260D	10-21-21	10-21-21	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260D	10-21-21	10-21-21	
Methyl Isobutyl Ketone	ND	100	EPA 8260D	10-21-21	10-21-21	
Toluene	ND	50	EPA 8260D	10-21-21	10-21-21	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260D	10-21-21	10-21-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-MID-1-102021					
Laboratory ID:	10-168-03					
1,1,2-Trichloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Tetrachloroethene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,3-Dichloropropane	ND	10	EPA 8260D	10-21-21	10-21-21	
2-Hexanone	ND	100	EPA 8260D	10-21-21	10-21-21	
Dibromochloromethane	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2-Dibromoethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Chlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
Ethylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
m,p-Xylene	ND	20	EPA 8260D	10-21-21	10-21-21	
o-Xylene	ND	10	EPA 8260D	10-21-21	10-21-21	
Styrene	ND	10	EPA 8260D	10-21-21	10-21-21	
Bromoform	ND	50	EPA 8260D	10-21-21	10-21-21	
Isopropylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
Bromobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2,3-Trichloropropane	ND	10	EPA 8260D	10-21-21	10-21-21	
n-Propylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
2-Chlorotoluene	ND	10	EPA 8260D	10-21-21	10-21-21	
4-Chlorotoluene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,3,5-Trimethylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
tert-Butylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2,4-Trimethylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
sec-Butylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,3-Dichlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
p-Isopropyltoluene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,4-Dichlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2-Dichlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
n-Butylbenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260D	10-21-21	10-21-21	
1,2,4-Trichlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
Hexachlorobutadiene	ND	50	EPA 8260D	10-21-21	10-21-21	
Naphthalene	ND	50	EPA 8260D	10-21-21	10-21-21	
1,2,3-Trichlorobenzene	ND	10	EPA 8260D	10-21-21	10-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1021W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Chloromethane	ND	1.0	EPA 8260D	10-21-21	10-21-21	
Vinyl Chloride	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Bromomethane	ND	2.3	EPA 8260D	10-21-21	10-21-21	
Chloroethane	ND	1.0	EPA 8260D	10-21-21	10-21-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Acetone	ND	5.0	EPA 8260D	10-21-21	10-21-21	
Iodomethane	ND	2.1	EPA 8260D	10-21-21	10-21-21	
Carbon Disulfide	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Methylene Chloride	ND	1.0	EPA 8260D	10-21-21	10-21-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Vinyl Acetate	ND	1.0	EPA 8260D	10-21-21	10-21-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
2-Butanone	ND	5.0	EPA 8260D	10-21-21	10-21-21	
Bromochloromethane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Chloroform	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Benzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Trichloroethene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Dibromomethane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Bromodichloromethane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	10-21-21	10-21-21	
Toluene	ND	1.0	EPA 8260D	10-21-21	10-21-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-21-21	10-21-21	



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 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1021W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Tetrachloroethene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
2-Hexanone	ND	2.0	EPA 8260D	10-21-21	10-21-21	
Dibromochloromethane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Chlorobenzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Ethylbenzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
m,p-Xylene	ND	0.40	EPA 8260D	10-21-21	10-21-21	
o-Xylene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Styrene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Bromoform	ND	1.0	EPA 8260D	10-21-21	10-21-21	
Isopropylbenzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Bromobenzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-21-21	10-21-21	
n-Propylbenzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
n-Butylbenzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-21-21	10-21-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	10-21-21	10-21-21	
Naphthalene	ND	1.0	EPA 8260D	10-21-21	10-21-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	10-21-21	10-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: October 25, 2021
 Samples Submitted: October 20, 2021
 Laboratory Reference: 2110-168
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD		Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	10-169-02										
	MS	MSD	MS	MSD		MS	MSD				
1,1-Dichloroethene	9.45	9.42	10.0	10.0	ND	95	94	68-122	0	15	
Benzene	9.39	9.29	10.0	10.0	ND	94	93	70-121	1	16	
Trichloroethene	9.96	9.69	10.0	10.0	ND	100	97	77-124	3	17	
Toluene	9.46	9.17	10.0	10.0	ND	95	92	72-120	3	19	
Chlorobenzene	10.0	9.60	10.0	10.0	ND	100	96	78-120	4	16	
<i>Surrogate:</i>											
Dibromofluoromethane						100	99	75-127			
Toluene-d8						99	98	80-127			
4-Bromofluorobenzene						99	99	78-125			





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 gas.
 - 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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





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

Chain of Custody

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: 10-168

Company: **Aspect Consulting**
 Project Number: **060172**
 Project Name: **Spoie'n Span**
 Project Manager: **Jeremy Porter**
 Sampled by: **Monique Rutter**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers													Comments/Special Instructions									
					NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> 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	% Moisture				
1	LGAC-EFF-2-102021	10/20/21	1105	waters					X																		
2	LGAC-INF-2-102021		1110				X																				
3	LGAC-MID-2-102021		1112							X																	

Signature

Monique Rutter

Company

Aspect OSE

Date

10/20/21 12:30

Time

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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

November 23, 2021

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2111-180

Dear Jeremy:

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

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 23, 2021
Samples Submitted: November 17, 2021
Laboratory Reference: 2111-180
Project: 060172

Case Narrative

Samples were collected on November 16, 2021 and received by the laboratory on November 17, 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: November 23, 2021
 Samples Submitted: November 17, 2021
 Laboratory Reference: 2111-180
 Project: 060172

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-INF-111621					
Laboratory ID:	11-180-03					
Gasoline	860	100	NWTPH-Gx	11-19-21	11-19-21	O
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	66-117				



Date of Report: November 23, 2021
 Samples Submitted: November 17, 2021
 Laboratory Reference: 2111-180
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1119W1					
Gasoline	ND	100	NWTPH-Gx	11-19-21	11-19-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	97	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-180-03							
	ORIG	DUP						
Gasoline	857	771	NA	NA	NA	NA	11	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				91	92	66-117		



Date of Report: November 23, 2021
 Samples Submitted: November 17, 2021
 Laboratory Reference: 2111-180
 Project: 060172

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-111621					
Laboratory ID:	11-180-01					
Dichlorodifluoromethane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Chloromethane	ND	4.0	EPA 8260D	11-19-21	11-19-21	
Vinyl Chloride	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Bromomethane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Chloroethane	ND	4.0	EPA 8260D	11-19-21	11-19-21	
Trichlorofluoromethane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,1-Dichloroethene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Acetone	320	20	EPA 8260D	11-19-21	11-19-21	
Iodomethane	ND	5.2	EPA 8260D	11-19-21	11-19-21	
Carbon Disulfide	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Methylene Chloride	ND	4.0	EPA 8260D	11-19-21	11-19-21	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Methyl t-Butyl Ether	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,1-Dichloroethane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Vinyl Acetate	ND	4.0	EPA 8260D	11-19-21	11-19-21	
2,2-Dichloropropane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
(cis) 1,2-Dichloroethene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
2-Butanone	ND	20	EPA 8260D	11-19-21	11-19-21	
Bromochloromethane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Chloroform	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,1,1-Trichloroethane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Carbon Tetrachloride	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,1-Dichloropropene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Benzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,2-Dichloroethane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Trichloroethene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,2-Dichloropropane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Dibromomethane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Bromodichloromethane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
(cis) 1,3-Dichloropropene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Methyl Isobutyl Ketone	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Toluene	ND	4.0	EPA 8260D	11-19-21	11-19-21	
(trans) 1,3-Dichloropropene	ND	0.80	EPA 8260D	11-19-21	11-19-21	



Date of Report: November 23, 2021
 Samples Submitted: November 17, 2021
 Laboratory Reference: 2111-180
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-111621					
Laboratory ID:	11-180-01					
1,1,2-Trichloroethane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Tetrachloroethene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,3-Dichloropropane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
2-Hexanone	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Dibromochloromethane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,2-Dibromoethane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Chlorobenzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,1,1,2-Tetrachloroethane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Ethylbenzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
m,p-Xylene	ND	1.6	EPA 8260D	11-19-21	11-19-21	
o-Xylene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Styrene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Bromoform	ND	4.0	EPA 8260D	11-19-21	11-19-21	
Isopropylbenzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Bromobenzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,1,2,2-Tetrachloroethane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,2,3-Trichloropropane	ND	0.80	EPA 8260D	11-19-21	11-19-21	
n-Propylbenzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
2-Chlorotoluene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
4-Chlorotoluene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,3,5-Trimethylbenzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
tert-Butylbenzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,2,4-Trimethylbenzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
sec-Butylbenzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,3-Dichlorobenzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
p-Isopropyltoluene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,4-Dichlorobenzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,2-Dichlorobenzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
n-Butylbenzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
1,2-Dibromo-3-chloropropane	ND	4.0	EPA 8260D	11-19-21	11-19-21	
1,2,4-Trichlorobenzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
Hexachlorobutadiene	ND	4.0	EPA 8260D	11-19-21	11-19-21	
Naphthalene	ND	4.0	EPA 8260D	11-19-21	11-19-21	
1,2,3-Trichlorobenzene	ND	0.80	EPA 8260D	11-19-21	11-19-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: November 23, 2021
 Samples Submitted: November 17, 2021
 Laboratory Reference: 2111-180
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-MID-111621					
Laboratory ID:	11-180-02					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Chloromethane	ND	10	EPA 8260D	11-19-21	11-19-21	
Vinyl Chloride	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Bromomethane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Chloroethane	ND	10	EPA 8260D	11-19-21	11-19-21	
Trichlorofluoromethane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,1-Dichloroethene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Acetone	520	50	EPA 8260D	11-19-21	11-19-21	
Iodomethane	ND	13	EPA 8260D	11-19-21	11-19-21	
Carbon Disulfide	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Methylene Chloride	ND	10	EPA 8260D	11-19-21	11-19-21	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Methyl t-Butyl Ether	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,1-Dichloroethane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Vinyl Acetate	ND	10	EPA 8260D	11-19-21	11-19-21	
2,2-Dichloropropane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
2-Butanone	98	50	EPA 8260D	11-19-21	11-19-21	
Bromochloromethane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Chloroform	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Carbon Tetrachloride	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,1-Dichloropropene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Benzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,2-Dichloroethane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Trichloroethene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,2-Dichloropropane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Dibromomethane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Bromodichloromethane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Methyl Isobutyl Ketone	ND	20	EPA 8260D	11-19-21	11-19-21	
Toluene	ND	10	EPA 8260D	11-19-21	11-19-21	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	11-19-21	11-19-21	



Date of Report: November 23, 2021
 Samples Submitted: November 17, 2021
 Laboratory Reference: 2111-180
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-MID-111621					
Laboratory ID:	11-180-02					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Tetrachloroethene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,3-Dichloropropane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
2-Hexanone	ND	20	EPA 8260D	11-19-21	11-19-21	
Dibromochloromethane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,2-Dibromoethane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Chlorobenzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Ethylbenzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
m,p-Xylene	ND	4.0	EPA 8260D	11-19-21	11-19-21	
o-Xylene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Styrene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Bromoform	ND	10	EPA 8260D	11-19-21	11-19-21	
Isopropylbenzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Bromobenzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	11-19-21	11-19-21	
n-Propylbenzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
2-Chlorotoluene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
4-Chlorotoluene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,3,5-Trimethylbenzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
tert-Butylbenzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,2,4-Trimethylbenzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
sec-Butylbenzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
p-Isopropyltoluene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
n-Butylbenzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	11-19-21	11-19-21	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Hexachlorobutadiene	ND	10	EPA 8260D	11-19-21	11-19-21	
Naphthalene	ND	10	EPA 8260D	11-19-21	11-19-21	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260D	11-19-21	11-19-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



Date of Report: November 23, 2021
 Samples Submitted: November 17, 2021
 Laboratory Reference: 2111-180
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-INF-111621					
Laboratory ID:	11-180-03					
Dichlorodifluoromethane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Chloromethane	ND	40	EPA 8260D	11-19-21	11-19-21	
Vinyl Chloride	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Bromomethane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Chloroethane	ND	40	EPA 8260D	11-19-21	11-19-21	
Trichlorofluoromethane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,1-Dichloroethene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Acetone	3100	200	EPA 8260D	11-19-21	11-19-21	
Iodomethane	ND	52	EPA 8260D	11-19-21	11-19-21	
Carbon Disulfide	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Methylene Chloride	ND	40	EPA 8260D	11-19-21	11-19-21	
(trans) 1,2-Dichloroethene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Methyl t-Butyl Ether	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,1-Dichloroethane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Vinyl Acetate	ND	40	EPA 8260D	11-19-21	11-19-21	
2,2-Dichloropropane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
(cis) 1,2-Dichloroethene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
2-Butanone	390	200	EPA 8260D	11-19-21	11-19-21	
Bromochloromethane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Chloroform	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,1,1-Trichloroethane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Carbon Tetrachloride	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,1-Dichloropropene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Benzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,2-Dichloroethane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Trichloroethene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,2-Dichloropropane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Dibromomethane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Bromodichloromethane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
(cis) 1,3-Dichloropropene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Methyl Isobutyl Ketone	ND	80	EPA 8260D	11-19-21	11-19-21	
Toluene	ND	40	EPA 8260D	11-19-21	11-19-21	
(trans) 1,3-Dichloropropene	ND	8.0	EPA 8260D	11-19-21	11-19-21	



Date of Report: November 23, 2021
 Samples Submitted: November 17, 2021
 Laboratory Reference: 2111-180
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-INF-111621					
Laboratory ID:	11-180-03					
1,1,2-Trichloroethane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Tetrachloroethene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,3-Dichloropropane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
2-Hexanone	ND	80	EPA 8260D	11-19-21	11-19-21	
Dibromochloromethane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,2-Dibromoethane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Chlorobenzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,1,1,2-Tetrachloroethane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Ethylbenzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
m,p-Xylene	ND	16	EPA 8260D	11-19-21	11-19-21	
o-Xylene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Styrene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Bromoform	ND	40	EPA 8260D	11-19-21	11-19-21	
Isopropylbenzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Bromobenzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,1,2,2-Tetrachloroethane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,2,3-Trichloropropane	ND	8.0	EPA 8260D	11-19-21	11-19-21	
n-Propylbenzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
2-Chlorotoluene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
4-Chlorotoluene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,3,5-Trimethylbenzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
tert-Butylbenzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,2,4-Trimethylbenzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
sec-Butylbenzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,3-Dichlorobenzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
p-Isopropyltoluene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,4-Dichlorobenzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,2-Dichlorobenzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
n-Butylbenzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
1,2-Dibromo-3-chloropropane	ND	40	EPA 8260D	11-19-21	11-19-21	
1,2,4-Trichlorobenzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
Hexachlorobutadiene	ND	40	EPA 8260D	11-19-21	11-19-21	
Naphthalene	130	40	EPA 8260D	11-19-21	11-19-21	
1,2,3-Trichlorobenzene	ND	8.0	EPA 8260D	11-19-21	11-19-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



Date of Report: November 23, 2021
 Samples Submitted: November 17, 2021
 Laboratory Reference: 2111-180
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1119W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Chloromethane	ND	1.0	EPA 8260D	11-19-21	11-19-21	
Vinyl Chloride	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Bromomethane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Chloroethane	ND	1.0	EPA 8260D	11-19-21	11-19-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Acetone	ND	5.0	EPA 8260D	11-19-21	11-19-21	
Iodomethane	ND	1.3	EPA 8260D	11-19-21	11-19-21	
Carbon Disulfide	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Methylene Chloride	ND	1.0	EPA 8260D	11-19-21	11-19-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Vinyl Acetate	ND	1.0	EPA 8260D	11-19-21	11-19-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
2-Butanone	ND	5.0	EPA 8260D	11-19-21	11-19-21	
Bromochloromethane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Chloroform	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Benzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Trichloroethene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Dibromomethane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Bromodichloromethane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Toluene	ND	1.0	EPA 8260D	11-19-21	11-19-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-19-21	11-19-21	



Date of Report: November 23, 2021
 Samples Submitted: November 17, 2021
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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1119W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Tetrachloroethene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
2-Hexanone	ND	2.0	EPA 8260D	11-19-21	11-19-21	
Dibromochloromethane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Chlorobenzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Ethylbenzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
m,p-Xylene	ND	0.40	EPA 8260D	11-19-21	11-19-21	
o-Xylene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Styrene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Bromoform	ND	1.0	EPA 8260D	11-19-21	11-19-21	
Isopropylbenzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Bromobenzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	11-19-21	11-19-21	
n-Propylbenzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
n-Butylbenzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	11-19-21	11-19-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	11-19-21	11-19-21	
Naphthalene	ND	1.0	EPA 8260D	11-19-21	11-19-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	11-19-21	11-19-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: November 23, 2021
 Samples Submitted: November 17, 2021
 Laboratory Reference: 2111-180
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1119W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.45	9.21	10.0	10.0	95	92	78-125	3	19	
Benzene	9.14	9.02	10.0	10.0	91	90	80-119	1	16	
Trichloroethene	9.51	9.40	10.0	10.0	95	94	80-121	1	18	
Toluene	9.16	9.04	10.0	10.0	92	90	80-117	1	18	
Chlorobenzene	9.46	9.46	10.0	10.0	95	95	80-117	0	17	
<i>Surrogate:</i>										
Dibromofluoromethane					95	95	75-127			
Toluene-d8					98	98	80-127			
4-Bromofluorobenzene					102	102	78-125			





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MVA 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

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **11-180**

11-180

Company: <i>Aspect Consulting</i>		Project Number: <i>060172</i>		Project Name: <i>Spic'N Span</i>		Project Manager: <i>Jeremy Parker</i>		Sampled by: <i>Zakei Beckek</i>		Date Sampled: <i>11/16/21</i>		Time Sampled: <i>1400</i>		Matrix: <i>Water</i>		Number of Containers: <i>4</i>		NWTPH-HCID NWTPH-Gx/BTEX NWTPH-Gx NWTPH-Dx (<input type="checkbox"/> 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 % Moisture			
1	<i>LGAC-EST-111621</i>	<i>11/16/21</i>	<i>1400</i>	<i>Water</i>	<i>4</i>																
2	<i>LGAC-MID-111621</i>	<i>11/16/21</i>	<i>1405</i>	<i>Water</i>	<i>4</i>																
3	<i>LGAC-INE-111621</i>	<i>11/16/21</i>	<i>1410</i>	<i>Water</i>	<i>4</i>																
Signature		Company		Date		Time		Comments/Special Instructions													
<i>[Signature]</i>		<i>Aspect Consulting</i>		<i>11/17/21</i>		<i>1425</i>															
<i>[Signature]</i>		<i>Aspect Consulting</i>		<i>11/17/21</i>		<i>14:25</i>															
<i>[Signature]</i>		<i>Aspect Consulting</i>		<i>11/17/21</i>		<i>3:05</i>															
<i>[Signature]</i>		<i>Aspect Consulting</i>		<i>11/17/21</i>		<i>1505</i>															
Reviewed/Date		Reviewed/Date		Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>																	
Reviewed/Date		Reviewed/Date		Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>																	



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

December 16, 2021

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2112-082

Dear Jeremy:

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

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: December 16, 2021
Samples Submitted: December 8, 2021
Laboratory Reference: 2112-082
Project: 060172

Case Narrative

Samples were collected on December 8, 2021 and received by the laboratory on December 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: December 16, 2021
 Samples Submitted: December 8, 2021
 Laboratory Reference: 2112-082
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-1-120821					
Laboratory ID:	12-082-01					
Dichlorodifluoromethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Chloromethane	ND	4.0	EPA 8260D	12-9-21	12-9-21	
Vinyl Chloride	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Bromomethane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Chloroethane	ND	4.0	EPA 8260D	12-9-21	12-9-21	
Trichlorofluoromethane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,1-Dichloroethene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Acetone	290	20	EPA 8260D	12-9-21	12-9-21	
Iodomethane	ND	5.2	EPA 8260D	12-9-21	12-9-21	
Carbon Disulfide	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Methylene Chloride	ND	4.0	EPA 8260D	12-9-21	12-9-21	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Methyl t-Butyl Ether	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,1-Dichloroethane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Vinyl Acetate	ND	4.0	EPA 8260D	12-9-21	12-9-21	
2,2-Dichloropropane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
(cis) 1,2-Dichloroethene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
2-Butanone	23	20	EPA 8260D	12-9-21	12-9-21	
Bromochloromethane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Chloroform	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,1,1-Trichloroethane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Carbon Tetrachloride	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,1-Dichloropropene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Benzene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,2-Dichloroethane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Trichloroethene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,2-Dichloropropane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Dibromomethane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Bromodichloromethane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
(cis) 1,3-Dichloropropene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Methyl Isobutyl Ketone	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Toluene	ND	4.0	EPA 8260D	12-9-21	12-9-21	
(trans) 1,3-Dichloropropene	ND	0.80	EPA 8260D	12-9-21	12-9-21	



Date of Report: December 16, 2021
 Samples Submitted: December 8, 2021
 Laboratory Reference: 2112-082
 Project: 060172

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-1-120821					
Laboratory ID:	12-082-01					
1,1,2-Trichloroethane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Tetrachloroethene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,3-Dichloropropane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
2-Hexanone	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Dibromochloromethane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,2-Dibromoethane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Chlorobenzene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,1,1,2-Tetrachloroethane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Ethylbenzene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
m,p-Xylene	ND	1.6	EPA 8260D	12-9-21	12-9-21	
o-Xylene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Styrene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Bromoform	ND	4.0	EPA 8260D	12-9-21	12-9-21	
Isopropylbenzene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Bromobenzene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,1,2,2-Tetrachloroethane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,2,3-Trichloropropane	ND	0.80	EPA 8260D	12-9-21	12-9-21	
n-Propylbenzene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
2-Chlorotoluene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
4-Chlorotoluene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,3,5-Trimethylbenzene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
tert-Butylbenzene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,2,4-Trimethylbenzene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
sec-Butylbenzene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,3-Dichlorobenzene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
p-Isopropyltoluene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,4-Dichlorobenzene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,2-Dichlorobenzene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
n-Butylbenzene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
1,2-Dibromo-3-chloropropane	ND	4.0	EPA 8260D	12-9-21	12-9-21	
1,2,4-Trichlorobenzene	ND	0.80	EPA 8260D	12-9-21	12-9-21	
Hexachlorobutadiene	ND	4.0	EPA 8260D	12-9-21	12-9-21	
Naphthalene	ND	4.0	EPA 8260D	12-9-21	12-9-21	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



Date of Report: December 16, 2021
 Samples Submitted: December 8, 2021
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 Project: 060172

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-INF-1-120821					
Laboratory ID:	12-082-04					
Dichlorodifluoromethane	ND	10	EPA 8260D	12-9-21	12-9-21	
Chloromethane	ND	40	EPA 8260D	12-9-21	12-9-21	
Vinyl Chloride	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Bromomethane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Chloroethane	ND	40	EPA 8260D	12-9-21	12-9-21	
Trichlorofluoromethane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,1-Dichloroethene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Acetone	3000	200	EPA 8260D	12-9-21	12-9-21	
Iodomethane	ND	52	EPA 8260D	12-9-21	12-9-21	
Carbon Disulfide	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Methylene Chloride	ND	40	EPA 8260D	12-9-21	12-9-21	
(trans) 1,2-Dichloroethene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Methyl t-Butyl Ether	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,1-Dichloroethane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Vinyl Acetate	ND	40	EPA 8260D	12-9-21	12-9-21	
2,2-Dichloropropane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
(cis) 1,2-Dichloroethene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
2-Butanone	360	200	EPA 8260D	12-9-21	12-9-21	
Bromochloromethane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Chloroform	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,1,1-Trichloroethane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Carbon Tetrachloride	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,1-Dichloropropene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Benzene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,2-Dichloroethane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Trichloroethene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,2-Dichloropropane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Dibromomethane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Bromodichloromethane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
(cis) 1,3-Dichloropropene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Methyl Isobutyl Ketone	ND	80	EPA 8260D	12-9-21	12-9-21	
Toluene	ND	40	EPA 8260D	12-9-21	12-9-21	
(trans) 1,3-Dichloropropene	ND	8.0	EPA 8260D	12-9-21	12-9-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-INF-1-120821					
Laboratory ID:	12-082-04					
1,1,2-Trichloroethane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Tetrachloroethene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,3-Dichloropropane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
2-Hexanone	ND	80	EPA 8260D	12-9-21	12-9-21	
Dibromochloromethane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,2-Dibromoethane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Chlorobenzene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,1,1,2-Tetrachloroethane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Ethylbenzene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
m,p-Xylene	ND	16	EPA 8260D	12-9-21	12-9-21	
o-Xylene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Styrene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Bromoform	ND	40	EPA 8260D	12-9-21	12-9-21	
Isopropylbenzene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Bromobenzene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,1,2,2-Tetrachloroethane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,2,3-Trichloropropane	ND	8.0	EPA 8260D	12-9-21	12-9-21	
n-Propylbenzene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
2-Chlorotoluene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
4-Chlorotoluene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,3,5-Trimethylbenzene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
tert-Butylbenzene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,2,4-Trimethylbenzene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
sec-Butylbenzene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,3-Dichlorobenzene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
p-Isopropyltoluene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,4-Dichlorobenzene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,2-Dichlorobenzene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
n-Butylbenzene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
1,2-Dibromo-3-chloropropane	ND	40	EPA 8260D	12-9-21	12-9-21	
1,2,4-Trichlorobenzene	ND	8.0	EPA 8260D	12-9-21	12-9-21	
Hexachlorobutadiene	ND	40	EPA 8260D	12-9-21	12-9-21	
Naphthalene	72	40	EPA 8260D	12-9-21	12-9-21	
1,2,3-Trichlorobenzene	ND	10	EPA 8260D	12-9-21	12-9-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



Date of Report: December 16, 2021
 Samples Submitted: December 8, 2021
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 Project: 060172

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-MID-1-120821					
Laboratory ID:	12-082-07					
Dichlorodifluoromethane	ND	1.3	EPA 8260D	12-9-21	12-9-21	
Chloromethane	ND	5.0	EPA 8260D	12-9-21	12-9-21	
Vinyl Chloride	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Bromomethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Chloroethane	ND	5.0	EPA 8260D	12-9-21	12-9-21	
Trichlorofluoromethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,1-Dichloroethene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Acetone	480	50	EPA 8260D	12-9-21	12-9-21	
Iodomethane	ND	6.5	EPA 8260D	12-9-21	12-9-21	
Carbon Disulfide	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Methylene Chloride	ND	5.0	EPA 8260D	12-9-21	12-9-21	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Methyl t-Butyl Ether	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,1-Dichloroethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Vinyl Acetate	ND	5.0	EPA 8260D	12-9-21	12-9-21	
2,2-Dichloropropane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
2-Butanone	110	25	EPA 8260D	12-9-21	12-9-21	
Bromochloromethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Chloroform	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,1,1-Trichloroethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Carbon Tetrachloride	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,1-Dichloropropene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Benzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,2-Dichloroethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Trichloroethene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,2-Dichloropropane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Dibromomethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Bromodichloromethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Methyl Isobutyl Ketone	ND	10	EPA 8260D	12-9-21	12-9-21	
Toluene	ND	5.0	EPA 8260D	12-9-21	12-9-21	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260D	12-9-21	12-9-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-MID-1-120821					
Laboratory ID:	12-082-07					
1,1,2-Trichloroethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Tetrachloroethene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,3-Dichloropropane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
2-Hexanone	ND	10	EPA 8260D	12-9-21	12-9-21	
Dibromochloromethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,2-Dibromoethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Chlorobenzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Ethylbenzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
m,p-Xylene	ND	2.0	EPA 8260D	12-9-21	12-9-21	
o-Xylene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Styrene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Bromoform	ND	5.0	EPA 8260D	12-9-21	12-9-21	
Isopropylbenzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Bromobenzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,2,3-Trichloropropane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
n-Propylbenzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
2-Chlorotoluene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
4-Chlorotoluene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,3,5-Trimethylbenzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
tert-Butylbenzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,2,4-Trimethylbenzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
sec-Butylbenzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,3-Dichlorobenzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
p-Isopropyltoluene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,4-Dichlorobenzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,2-Dichlorobenzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
n-Butylbenzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260D	12-9-21	12-9-21	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Hexachlorobutadiene	ND	5.0	EPA 8260D	12-9-21	12-9-21	
Naphthalene	ND	5.0	EPA 8260D	12-9-21	12-9-21	
1,2,3-Trichlorobenzene	ND	1.3	EPA 8260D	12-9-21	12-9-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



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 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1209W1					
Dichlorodifluoromethane	ND	0.26	EPA 8260D	12-9-21	12-9-21	
Chloromethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Bromomethane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Chloroethane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Acetone	ND	5.0	EPA 8260D	12-9-21	12-9-21	
Iodomethane	ND	1.3	EPA 8260D	12-9-21	12-9-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-9-21	12-9-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-9-21	12-9-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
2-Butanone	ND	5.0	EPA 8260D	12-9-21	12-9-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Chloroform	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Benzene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Trichloroethene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Dibromomethane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-9-21	12-9-21	
Toluene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-9-21	12-9-21	



Date of Report: December 16, 2021
 Samples Submitted: December 8, 2021
 Laboratory Reference: 2112-082
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1209W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
2-Hexanone	ND	2.0	EPA 8260D	12-9-21	12-9-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-9-21	12-9-21	
o-Xylene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Styrene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Bromoform	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Bromobenzene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-9-21	12-9-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-9-21	12-9-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
Naphthalene	ND	1.0	EPA 8260D	12-9-21	12-9-21	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260D	12-9-21	12-9-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



Date of Report: December 16, 2021
 Samples Submitted: December 8, 2021
 Laboratory Reference: 2112-082
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1209W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.0	11.3	10.0	10.0	110	113	78-125	3	19	
Benzene	11.1	11.5	10.0	10.0	111	115	80-119	4	16	
Trichloroethene	10.8	11.0	10.0	10.0	108	110	80-121	2	18	
Toluene	10.5	10.6	10.0	10.0	105	106	80-117	1	18	
Chlorobenzene	9.98	10.3	10.0	10.0	100	103	80-117	3	17	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					104	105	75-127			
<i>Toluene-d8</i>					101	101	80-127			
<i>4-Bromofluorobenzene</i>					101	103	78-125			



Date of Report: December 16, 2021
 Samples Submitted: December 8, 2021
 Laboratory Reference: 2112-082
 Project: 060172

**SILICA GEL TREATED
 HEXANE EXTRACTABLE MATERIAL
 EPA 1664A**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-1,2,3-120821 Comp.					
Laboratory ID:	12-082-01,02,03 Comp.					
Non Polar HEM	ND	6.6	EPA 1664A	12-16-21	12-16-21	
Client ID:	LGAC-INF-1,2,3-120821 Comp.					
Laboratory ID:	12-082-04,05,06 Comp.					
Non Polar HEM	ND	6.7	EPA 1664A	12-16-21	12-16-21	
Client ID:	LGAC-MID-1,2,3-120821 Comp.					
Laboratory ID:	12-082-07,08,09 Comp.					
Non Polar HEM	ND	6.6	EPA 1664A	12-16-21	12-16-21	



Date of Report: December 16, 2021
 Samples Submitted: December 8, 2021
 Laboratory Reference: 2112-082
 Project: 060172

**SILICA GEL TREATED
 HEXANE EXTRACTABLE MATERIAL
 EPA 1664A
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1216W1					
Non Polar HEM	ND	5.0	EPA 1664A	12-16-21	12-16-21	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1216W1									
	SB	SBD	SB	SBD	SB	SBD				
Non Polar HEM	18.0	18.8	20.0	20.0	90	94	66-105	4	19	





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MVA 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

Turnaround Request
(in working days)

(Check One)

- Same Day 1 Day
- 2 Days 3 Days
- Standard (7 Days)

_____ (other)

Laboratory Number: 12-082

Company: **ASPECT CONSULTING**
 Project Number: **0600172**
 Project Name: **SPIC n' SPAN**
 Project Manager: **Jeremy Porter**
 Sampled by: **MMR**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	LGAC-EFF-1-120821	12/8/21	1045	water	6
2	LGAC-EFF-2-120821	12/8/21	1050	water	2
3	LGAC-EFF-3-120821		1055		
4	LGAC-INF-1-120821		1057		
5	LGAC-INF-2-120821	12/8/21	1102	water	2
6	LGAC-INF-3-120821		1107		
7	LGAC-MID-2-120821		1110		
8	LGAC-MID-2-120821	12/8/21	1115	water	2
9	LGAC-MID-3-120821		1120		

Method	Result
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260D	X
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	
Nonpolar FOG	
% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
<i>Jeremy Porter</i>	ASPECT	12/8/21	1340	composite EFF 1-3 for nonpolar FOG
<i>Doreen Davis</i>	OS	12/8/21	1340	composite INF 1-3 for nonpolar FOG
				composite MID 1-3 for nonpolar FOG

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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

January 13, 2022

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2201-047

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on January 7, 2022.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: January 13, 2022
Samples Submitted: January 7, 2022
Laboratory Reference: 2201-047
Project: 060172

Case Narrative

Samples were collected on January 7, 2022 and received by the laboratory on January 7, 2022. 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: January 13, 2022
 Samples Submitted: January 7, 2022
 Laboratory Reference: 2201-047
 Project: 060172

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-INF-1-010722					
Laboratory ID:	01-047-02					
Gasoline	ND	500	NWTPH-Gx	1-10-22	1-10-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	85	66-117				



Date of Report: January 13, 2022
 Samples Submitted: January 7, 2022
 Laboratory Reference: 2201-047
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0110W1					
Gasoline	ND	100	NWTPH-Gx	1-10-22	1-10-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	85	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-046-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				82	82	66-117		



Date of Report: January 13, 2022
 Samples Submitted: January 7, 2022
 Laboratory Reference: 2201-047
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-1-010722					
Laboratory ID:	01-047-01					
Dichlorodifluoromethane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Chloromethane	ND	4.0	EPA 8260D	1-11-22	1-11-22	
Vinyl Chloride	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Bromomethane	ND	1.1	EPA 8260D	1-11-22	1-11-22	
Chloroethane	ND	5.2	EPA 8260D	1-11-22	1-11-22	
Trichlorofluoromethane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,1-Dichloroethene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Acetone	210	20	EPA 8260D	1-11-22	1-11-22	
Iodomethane	ND	20	EPA 8260D	1-11-22	1-11-22	
Carbon Disulfide	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Methylene Chloride	ND	4.0	EPA 8260D	1-11-22	1-11-22	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Methyl t-Butyl Ether	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,1-Dichloroethane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Vinyl Acetate	ND	4.0	EPA 8260D	1-11-22	1-11-22	
2,2-Dichloropropane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
(cis) 1,2-Dichloroethene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
2-Butanone	48	20	EPA 8260D	1-11-22	1-11-22	
Bromochloromethane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Chloroform	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,1,1-Trichloroethane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Carbon Tetrachloride	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,1-Dichloropropene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Benzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,2-Dichloroethane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Trichloroethene	ND	1.6	EPA 8260D	1-11-22	1-11-22	
1,2-Dichloropropane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Dibromomethane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Bromodichloromethane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
(cis) 1,3-Dichloropropene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Methyl Isobutyl Ketone	ND	8.0	EPA 8260D	1-11-22	1-11-22	
Toluene	ND	4.0	EPA 8260D	1-11-22	1-11-22	
(trans) 1,3-Dichloropropene	ND	0.80	EPA 8260D	1-11-22	1-11-22	



Date of Report: January 13, 2022
 Samples Submitted: January 7, 2022
 Laboratory Reference: 2201-047
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-1-010722					
Laboratory ID:	01-047-01					
1,1,2-Trichloroethane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Tetrachloroethene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,3-Dichloropropane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
2-Hexanone	ND	8.0	EPA 8260D	1-11-22	1-11-22	
Dibromochloromethane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,2-Dibromoethane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Chlorobenzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,1,1,2-Tetrachloroethane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Ethylbenzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
m,p-Xylene	ND	1.6	EPA 8260D	1-11-22	1-11-22	
o-Xylene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Styrene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Bromoform	ND	4.0	EPA 8260D	1-11-22	1-11-22	
Isopropylbenzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Bromobenzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,1,2,2-Tetrachloroethane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,2,3-Trichloropropane	ND	0.80	EPA 8260D	1-11-22	1-11-22	
n-Propylbenzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
2-Chlorotoluene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
4-Chlorotoluene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,3,5-Trimethylbenzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
tert-Butylbenzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,2,4-Trimethylbenzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
sec-Butylbenzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,3-Dichlorobenzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
p-Isopropyltoluene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,4-Dichlorobenzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,2-Dichlorobenzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
n-Butylbenzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
1,2-Dibromo-3-chloropropane	ND	4.0	EPA 8260D	1-11-22	1-11-22	
1,2,4-Trichlorobenzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
Hexachlorobutadiene	ND	4.0	EPA 8260D	1-11-22	1-11-22	
Naphthalene	ND	4.0	EPA 8260D	1-11-22	1-11-22	
1,2,3-Trichlorobenzene	ND	0.80	EPA 8260D	1-11-22	1-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>81</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>92</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>78-125</i>				



Date of Report: January 13, 2022
 Samples Submitted: January 7, 2022
 Laboratory Reference: 2201-047
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-INF-1-010722					
Laboratory ID:	01-047-02					
Dichlorodifluoromethane	ND	5.4	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	20	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	26	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Acetone	1900	100	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	100	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	20	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	20	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
2-Butanone	240	100	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	8.0	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	40	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	20	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260D	1-12-22	1-12-22	



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 Project: 060172

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-INF-1-010722					
Laboratory ID:	01-047-02					
1,1,2-Trichloroethane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	40	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	8.0	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	20	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	4.0	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	20	EPA 8260D	1-12-22	1-12-22	
Naphthalene	200	20	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-MID-1-010722					
Laboratory ID:	01-047-03					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Chloromethane	ND	10	EPA 8260D	1-11-22	1-11-22	
Vinyl Chloride	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Bromomethane	ND	2.7	EPA 8260D	1-11-22	1-11-22	
Chloroethane	ND	13	EPA 8260D	1-11-22	1-11-22	
Trichlorofluoromethane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Acetone	780	50	EPA 8260D	1-11-22	1-11-22	
Iodomethane	ND	50	EPA 8260D	1-11-22	1-11-22	
Carbon Disulfide	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Methylene Chloride	ND	10	EPA 8260D	1-11-22	1-11-22	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Methyl t-Butyl Ether	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,1-Dichloroethane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Vinyl Acetate	ND	10	EPA 8260D	1-11-22	1-11-22	
2,2-Dichloropropane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
2-Butanone	130	50	EPA 8260D	1-11-22	1-11-22	
Bromochloromethane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Chloroform	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Carbon Tetrachloride	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,1-Dichloropropene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Benzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,2-Dichloroethane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Trichloroethene	ND	4.0	EPA 8260D	1-11-22	1-11-22	
1,2-Dichloropropane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Dibromomethane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Bromodichloromethane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Methyl Isobutyl Ketone	ND	20	EPA 8260D	1-11-22	1-11-22	
Toluene	ND	10	EPA 8260D	1-11-22	1-11-22	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	1-11-22	1-11-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-MID-1-010722					
Laboratory ID:	01-047-03					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Tetrachloroethene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,3-Dichloropropane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
2-Hexanone	ND	20	EPA 8260D	1-11-22	1-11-22	
Dibromochloromethane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,2-Dibromoethane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Chlorobenzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Ethylbenzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
m,p-Xylene	ND	4.0	EPA 8260D	1-11-22	1-11-22	
o-Xylene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Styrene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Bromoform	ND	10	EPA 8260D	1-11-22	1-11-22	
Isopropylbenzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Bromobenzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	1-11-22	1-11-22	
n-Propylbenzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
2-Chlorotoluene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
4-Chlorotoluene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,3,5-Trimethylbenzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
tert-Butylbenzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,2,4-Trimethylbenzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
sec-Butylbenzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
p-Isopropyltoluene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
n-Butylbenzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	1-11-22	1-11-22	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Hexachlorobutadiene	ND	10	EPA 8260D	1-11-22	1-11-22	
Naphthalene	ND	10	EPA 8260D	1-11-22	1-11-22	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260D	1-11-22	1-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>79</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>92</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>86</i>	<i>78-125</i>				



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QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0111W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Chloromethane	ND	1.0	EPA 8260D	1-11-22	1-11-22	
Vinyl Chloride	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Bromomethane	ND	0.27	EPA 8260D	1-11-22	1-11-22	
Chloroethane	ND	1.3	EPA 8260D	1-11-22	1-11-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Acetone	ND	5.0	EPA 8260D	1-11-22	1-11-22	
Iodomethane	ND	5.0	EPA 8260D	1-11-22	1-11-22	
Carbon Disulfide	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Methylene Chloride	ND	1.0	EPA 8260D	1-11-22	1-11-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Vinyl Acetate	ND	1.0	EPA 8260D	1-11-22	1-11-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
2-Butanone	ND	5.0	EPA 8260D	1-11-22	1-11-22	
Bromochloromethane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Chloroform	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Benzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Trichloroethene	ND	0.40	EPA 8260D	1-11-22	1-11-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Dibromomethane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Bromodichloromethane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Toluene	ND	1.0	EPA 8260D	1-11-22	1-11-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-11-22	1-11-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0111W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Tetrachloroethene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
2-Hexanone	ND	2.0	EPA 8260D	1-11-22	1-11-22	
Dibromochloromethane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Chlorobenzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Ethylbenzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
m,p-Xylene	ND	0.40	EPA 8260D	1-11-22	1-11-22	
o-Xylene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Styrene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Bromoform	ND	1.0	EPA 8260D	1-11-22	1-11-22	
Isopropylbenzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Bromobenzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	1-11-22	1-11-22	
n-Propylbenzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
n-Butylbenzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	1-11-22	1-11-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	1-11-22	1-11-22	
Naphthalene	ND	1.0	EPA 8260D	1-11-22	1-11-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	1-11-22	1-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>82</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>78-125</i>				



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QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0112W1					
Dichlorodifluoromethane	ND	0.27	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	1.0	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	1.3	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Acetone	ND	5.0	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	5.0	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	1.0	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	1.0	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
2-Butanone	ND	5.0	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.40	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	1.0	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-12-22	1-12-22	



Date of Report: January 13, 2022
 Samples Submitted: January 7, 2022
 Laboratory Reference: 2201-047
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0112W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	2.0	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.40	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	1.0	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	1-12-22	1-12-22	
Naphthalene	ND	1.0	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>85</i>	<i>78-125</i>				



Date of Report: January 13, 2022
 Samples Submitted: January 7, 2022
 Laboratory Reference: 2201-047
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0111W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.69	8.16	10.0	10.0	87	82	78-125	6	19	
Benzene	8.59	8.31	10.0	10.0	86	83	80-119	3	16	
Trichloroethene	9.33	9.20	10.0	10.0	93	92	80-121	1	18	
Toluene	8.48	8.30	10.0	10.0	85	83	80-117	2	18	
Chlorobenzene	10.5	10.3	10.0	10.0	105	103	80-117	2	17	
<i>Surrogate:</i>										
Dibromofluoromethane					85	83	75-127			
Toluene-d8					96	96	80-127			
4-Bromofluorobenzene					97	98	78-125			
Laboratory ID:	SB0112W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.84	8.78	10.0	10.0	88	88	78-125	1	19	
Benzene	8.87	8.92	10.0	10.0	89	89	80-119	1	16	
Trichloroethene	9.12	9.07	10.0	10.0	91	91	80-121	1	18	
Toluene	8.72	8.76	10.0	10.0	87	88	80-117	0	18	
Chlorobenzene	10.8	10.6	10.0	10.0	108	106	80-117	2	17	
<i>Surrogate:</i>										
Dibromofluoromethane					85	86	75-127			
Toluene-d8					96	97	80-127			
4-Bromofluorobenzene					94	93	78-125			





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





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

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **01-047**

Company: ASPECT CONSULTING
 Project Number: 0100172
 Project Name: Spill n' Spill
 Project Manager: Jeremy Porter
 Sampled by: Monique Ruttie

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	LGAC-EFF-1-010722	11/7/22	1225	waters	5
2	LGAC-INF-2-010722		1130		
3	LGAC-MID-2-010722		1135		

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> 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	% Moisture
5			X	*	X													

Relinquished	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>Monique Ruttie</u>	<u>ASPECT</u>	<u>11/7/22</u>	<u>1240</u>	<u>HOLD FOR GX:</u>
Received		<u>ASPECT</u>	<u>11/7/22</u>	<u>1250</u>	<u>LGAC-EFF-2-010722</u>
Relinquished					<u>LGAC-MID-2-010722</u>
Received					
Relinquished					
Received					
Reviewed/Date					

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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

February 3, 2022

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2201-213

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on January 26, 2022.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: February 3, 2022
Samples Submitted: January 26, 2022
Laboratory Reference: 2201-213
Project: 060172

Case Narrative

Samples were collected on January 26, 2022 and received by the laboratory on January 26, 2022. 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: February 3, 2022
 Samples Submitted: January 26, 2022
 Laboratory Reference: 2201-213
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-1-012622					
Laboratory ID:	01-213-01					
Dichlorodifluoromethane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Chloromethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Vinyl Chloride	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Bromomethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Chloroethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Trichlorofluoromethane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,1-Dichloroethene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Acetone	200	20	EPA 8260D	1-27-22	1-27-22	
Iodomethane	ND	40	EPA 8260D	1-27-22	1-27-22	
Carbon Disulfide	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Methylene Chloride	ND	4.0	EPA 8260D	1-27-22	1-27-22	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Methyl t-Butyl Ether	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,1-Dichloroethane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Vinyl Acetate	ND	4.0	EPA 8260D	1-27-22	1-27-22	
2,2-Dichloropropane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
(cis) 1,2-Dichloroethene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
2-Butanone	39	20	EPA 8260D	1-27-22	1-27-22	
Bromochloromethane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Chloroform	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,1,1-Trichloroethane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Carbon Tetrachloride	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,1-Dichloropropene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Benzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,2-Dichloroethane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Trichloroethene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,2-Dichloropropane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Dibromomethane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Bromodichloromethane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
(cis) 1,3-Dichloropropene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Methyl Isobutyl Ketone	ND	8.0	EPA 8260D	1-27-22	1-27-22	
Toluene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
(trans) 1,3-Dichloropropene	ND	0.80	EPA 8260D	1-27-22	1-27-22	



Date of Report: February 3, 2022
 Samples Submitted: January 26, 2022
 Laboratory Reference: 2201-213
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-1-012622					
Laboratory ID:	01-213-01					
1,1,2-Trichloroethane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Tetrachloroethene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,3-Dichloropropane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
2-Hexanone	ND	8.0	EPA 8260D	1-27-22	1-27-22	
Dibromochloromethane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,2-Dibromoethane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Chlorobenzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,1,1,2-Tetrachloroethane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Ethylbenzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
m,p-Xylene	ND	1.6	EPA 8260D	1-27-22	1-27-22	
o-Xylene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Styrene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Bromoform	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Isopropylbenzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Bromobenzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,1,2,2-Tetrachloroethane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,2,3-Trichloropropane	ND	0.80	EPA 8260D	1-27-22	1-27-22	
n-Propylbenzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
2-Chlorotoluene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
4-Chlorotoluene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,3,5-Trimethylbenzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
tert-Butylbenzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,2,4-Trimethylbenzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
sec-Butylbenzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,3-Dichlorobenzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
p-Isopropyltoluene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,4-Dichlorobenzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,2-Dichlorobenzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
n-Butylbenzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
1,2-Dibromo-3-chloropropane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,2,4-Trichlorobenzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
Hexachlorobutadiene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Naphthalene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,2,3-Trichlorobenzene	ND	0.80	EPA 8260D	1-27-22	1-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	75-127				
<i>Toluene-d8</i>	99	80-127				
<i>4-Bromofluorobenzene</i>	97	78-125				



Date of Report: February 3, 2022
 Samples Submitted: January 26, 2022
 Laboratory Reference: 2201-213
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-INF-1-012622					
Laboratory ID:	01-213-04					
Dichlorodifluoromethane	ND	10	EPA 8260D	1-26-22	1-26-22	
Chloromethane	ND	50	EPA 8260D	1-26-22	1-26-22	
Vinyl Chloride	ND	10	EPA 8260D	1-26-22	1-26-22	
Bromomethane	ND	50	EPA 8260D	1-26-22	1-26-22	
Chloroethane	ND	50	EPA 8260D	1-26-22	1-26-22	
Trichlorofluoromethane	ND	10	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloroethene	ND	10	EPA 8260D	1-26-22	1-26-22	
Acetone	4200	250	EPA 8260D	1-26-22	1-26-22	
Iodomethane	ND	250	EPA 8260D	1-26-22	1-26-22	
Carbon Disulfide	ND	10	EPA 8260D	1-26-22	1-26-22	
Methylene Chloride	ND	50	EPA 8260D	1-26-22	1-26-22	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260D	1-26-22	1-26-22	
Methyl t-Butyl Ether	ND	10	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloroethane	ND	10	EPA 8260D	1-26-22	1-26-22	
Vinyl Acetate	ND	50	EPA 8260D	1-26-22	1-26-22	
2,2-Dichloropropane	ND	10	EPA 8260D	1-26-22	1-26-22	
(cis) 1,2-Dichloroethene	ND	10	EPA 8260D	1-26-22	1-26-22	
2-Butanone	610	250	EPA 8260D	1-26-22	1-26-22	
Bromochloromethane	ND	10	EPA 8260D	1-26-22	1-26-22	
Chloroform	ND	10	EPA 8260D	1-26-22	1-26-22	
1,1,1-Trichloroethane	ND	10	EPA 8260D	1-26-22	1-26-22	
Carbon Tetrachloride	ND	10	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloropropene	ND	10	EPA 8260D	1-26-22	1-26-22	
Benzene	ND	10	EPA 8260D	1-26-22	1-26-22	
1,2-Dichloroethane	ND	10	EPA 8260D	1-26-22	1-26-22	
Trichloroethene	ND	10	EPA 8260D	1-26-22	1-26-22	
1,2-Dichloropropane	ND	10	EPA 8260D	1-26-22	1-26-22	
Dibromomethane	ND	10	EPA 8260D	1-26-22	1-26-22	
Bromodichloromethane	ND	10	EPA 8260D	1-26-22	1-26-22	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260D	1-26-22	1-26-22	
Methyl Isobutyl Ketone	ND	100	EPA 8260D	1-26-22	1-26-22	
Toluene	ND	50	EPA 8260D	1-26-22	1-26-22	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260D	1-26-22	1-26-22	



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 Laboratory Reference: 2201-213
 Project: 060172

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-INF-1-012622					
Laboratory ID:	01-213-04					
1,1,2-Trichloroethane	ND	10	EPA 8260D	1-26-22	1-26-22	
Tetrachloroethene	ND	10	EPA 8260D	1-26-22	1-26-22	
1,3-Dichloropropane	ND	10	EPA 8260D	1-26-22	1-26-22	
2-Hexanone	ND	100	EPA 8260D	1-26-22	1-26-22	
Dibromochloromethane	ND	10	EPA 8260D	1-26-22	1-26-22	
1,2-Dibromoethane	ND	10	EPA 8260D	1-26-22	1-26-22	
Chlorobenzene	ND	10	EPA 8260D	1-26-22	1-26-22	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260D	1-26-22	1-26-22	
Ethylbenzene	ND	10	EPA 8260D	1-26-22	1-26-22	
m,p-Xylene	ND	20	EPA 8260D	1-26-22	1-26-22	
o-Xylene	ND	10	EPA 8260D	1-26-22	1-26-22	
Styrene	ND	10	EPA 8260D	1-26-22	1-26-22	
Bromoform	ND	50	EPA 8260D	1-26-22	1-26-22	
Isopropylbenzene	ND	10	EPA 8260D	1-26-22	1-26-22	
Bromobenzene	ND	10	EPA 8260D	1-26-22	1-26-22	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260D	1-26-22	1-26-22	
1,2,3-Trichloropropane	ND	10	EPA 8260D	1-26-22	1-26-22	
n-Propylbenzene	ND	10	EPA 8260D	1-26-22	1-26-22	
2-Chlorotoluene	ND	10	EPA 8260D	1-26-22	1-26-22	
4-Chlorotoluene	ND	10	EPA 8260D	1-26-22	1-26-22	
1,3,5-Trimethylbenzene	ND	10	EPA 8260D	1-26-22	1-26-22	
tert-Butylbenzene	ND	10	EPA 8260D	1-26-22	1-26-22	
1,2,4-Trimethylbenzene	ND	10	EPA 8260D	1-26-22	1-26-22	
sec-Butylbenzene	ND	10	EPA 8260D	1-26-22	1-26-22	
1,3-Dichlorobenzene	ND	10	EPA 8260D	1-26-22	1-26-22	
p-Isopropyltoluene	ND	10	EPA 8260D	1-26-22	1-26-22	
1,4-Dichlorobenzene	ND	10	EPA 8260D	1-26-22	1-26-22	
1,2-Dichlorobenzene	ND	10	EPA 8260D	1-26-22	1-26-22	
n-Butylbenzene	ND	10	EPA 8260D	1-26-22	1-26-22	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260D	1-26-22	1-26-22	
1,2,4-Trichlorobenzene	ND	10	EPA 8260D	1-26-22	1-26-22	
Hexachlorobutadiene	ND	50	EPA 8260D	1-26-22	1-26-22	
Naphthalene	240	50	EPA 8260D	1-26-22	1-26-22	
1,2,3-Trichlorobenzene	ND	10	EPA 8260D	1-26-22	1-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-MID-1-012622					
Laboratory ID:	01-213-07					
Dichlorodifluoromethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Chloromethane	ND	20	EPA 8260D	1-27-22	1-27-22	
Vinyl Chloride	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Bromomethane	ND	20	EPA 8260D	1-27-22	1-27-22	
Chloroethane	ND	20	EPA 8260D	1-27-22	1-27-22	
Trichlorofluoromethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,1-Dichloroethene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Acetone	1500	100	EPA 8260D	1-27-22	1-27-22	
Iodomethane	ND	200	EPA 8260D	1-27-22	1-27-22	
Carbon Disulfide	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Methylene Chloride	ND	20	EPA 8260D	1-27-22	1-27-22	
(trans) 1,2-Dichloroethene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Methyl t-Butyl Ether	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,1-Dichloroethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Vinyl Acetate	ND	20	EPA 8260D	1-27-22	1-27-22	
2,2-Dichloropropane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
(cis) 1,2-Dichloroethene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
2-Butanone	190	100	EPA 8260D	1-27-22	1-27-22	
Bromochloromethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Chloroform	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,1,1-Trichloroethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Carbon Tetrachloride	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,1-Dichloropropene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Benzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,2-Dichloroethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Trichloroethene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,2-Dichloropropane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Dibromomethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Bromodichloromethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Methyl Isobutyl Ketone	ND	40	EPA 8260D	1-27-22	1-27-22	
Toluene	ND	20	EPA 8260D	1-27-22	1-27-22	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260D	1-27-22	1-27-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-MID-1-012622					
Laboratory ID:	01-213-07					
1,1,2-Trichloroethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Tetrachloroethene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,3-Dichloropropane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
2-Hexanone	ND	40	EPA 8260D	1-27-22	1-27-22	
Dibromochloromethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,2-Dibromoethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Chlorobenzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Ethylbenzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
m,p-Xylene	ND	8.0	EPA 8260D	1-27-22	1-27-22	
o-Xylene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Styrene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Bromoform	ND	20	EPA 8260D	1-27-22	1-27-22	
Isopropylbenzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Bromobenzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,2,3-Trichloropropane	ND	4.0	EPA 8260D	1-27-22	1-27-22	
n-Propylbenzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
2-Chlorotoluene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
4-Chlorotoluene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,3,5-Trimethylbenzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
tert-Butylbenzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,2,4-Trimethylbenzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
sec-Butylbenzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,3-Dichlorobenzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
p-Isopropyltoluene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,4-Dichlorobenzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,2-Dichlorobenzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
n-Butylbenzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260D	1-27-22	1-27-22	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
Hexachlorobutadiene	ND	20	EPA 8260D	1-27-22	1-27-22	
Naphthalene	ND	20	EPA 8260D	1-27-22	1-27-22	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260D	1-27-22	1-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0126W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Chloromethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Vinyl Chloride	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Bromomethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Chloroethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Acetone	ND	5.0	EPA 8260D	1-26-22	1-26-22	
Iodomethane	ND	5.0	EPA 8260D	1-26-22	1-26-22	
Carbon Disulfide	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Methylene Chloride	ND	1.0	EPA 8260D	1-26-22	1-26-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Vinyl Acetate	ND	1.0	EPA 8260D	1-26-22	1-26-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
2-Butanone	ND	5.0	EPA 8260D	1-26-22	1-26-22	
Bromochloromethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Chloroform	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Benzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Trichloroethene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Dibromomethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Bromodichloromethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	1-26-22	1-26-22	
Toluene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-26-22	1-26-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0126W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Tetrachloroethene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
2-Hexanone	ND	2.0	EPA 8260D	1-26-22	1-26-22	
Dibromochloromethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Chlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	1-26-22	1-26-22	
o-Xylene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Styrene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Bromoform	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Isopropylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Bromobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
n-Propylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
n-Butylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Naphthalene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0127W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Chloromethane	ND	1.0	EPA 8260D	1-27-22	1-27-22	
Vinyl Chloride	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Bromomethane	ND	1.0	EPA 8260D	1-27-22	1-27-22	
Chloroethane	ND	1.0	EPA 8260D	1-27-22	1-27-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Acetone	ND	5.0	EPA 8260D	1-27-22	1-27-22	
Iodomethane	ND	9.9	EPA 8260D	1-27-22	1-27-22	
Carbon Disulfide	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Methylene Chloride	ND	1.0	EPA 8260D	1-27-22	1-27-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Vinyl Acetate	ND	1.0	EPA 8260D	1-27-22	1-27-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
2-Butanone	ND	5.0	EPA 8260D	1-27-22	1-27-22	
Bromochloromethane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Chloroform	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Benzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Trichloroethene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Dibromomethane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Bromodichloromethane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	1-27-22	1-27-22	
Toluene	ND	1.0	EPA 8260D	1-27-22	1-27-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-27-22	1-27-22	



Date of Report: February 3, 2022
 Samples Submitted: January 26, 2022
 Laboratory Reference: 2201-213
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0127W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Tetrachloroethene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
2-Hexanone	ND	2.0	EPA 8260D	1-27-22	1-27-22	
Dibromochloromethane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Chlorobenzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Ethylbenzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
m,p-Xylene	ND	0.40	EPA 8260D	1-27-22	1-27-22	
o-Xylene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Styrene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Bromoform	ND	1.0	EPA 8260D	1-27-22	1-27-22	
Isopropylbenzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Bromobenzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	1-27-22	1-27-22	
n-Propylbenzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
n-Butylbenzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	1-27-22	1-27-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	1-27-22	1-27-22	
Naphthalene	ND	1.0	EPA 8260D	1-27-22	1-27-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	1-27-22	1-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-125</i>				



Date of Report: February 3, 2022
 Samples Submitted: January 26, 2022
 Laboratory Reference: 2201-213
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0126W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.5	11.7	10.0	10.0	115	117	78-125	2	19	
Benzene	11.6	11.8	10.0	10.0	116	118	80-119	2	16	
Trichloroethene	11.0	11.2	10.0	10.0	110	112	80-121	2	18	
Toluene	10.7	10.9	10.0	10.0	107	109	80-117	2	18	
Chlorobenzene	10.6	10.9	10.0	10.0	106	109	80-117	3	17	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					109	109	75-127			
<i>Toluene-d8</i>					102	101	80-127			
<i>4-Bromofluorobenzene</i>					99	98	78-125			
Laboratory ID:	SB0127W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	10.4	10.0	10.0	107	104	78-125	3	19	
Benzene	10.7	10.6	10.0	10.0	107	106	80-119	1	16	
Trichloroethene	10.9	10.8	10.0	10.0	109	108	80-121	1	18	
Toluene	10.6	10.7	10.0	10.0	106	107	80-117	1	18	
Chlorobenzene	10.6	10.8	10.0	10.0	106	108	80-117	2	17	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					100	97	75-127			
<i>Toluene-d8</i>					100	98	80-127			
<i>4-Bromofluorobenzene</i>					98	95	78-125			



Date of Report: February 3, 2022
 Samples Submitted: January 26, 2022
 Laboratory Reference: 2201-213
 Project: 060172

**SILICA GEL TREATED
 HEXANE EXTRACTABLE MATERIAL
 EPA 1664A**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-EFF-1,2,3-012622 Comp.					
Laboratory ID:	01-213-01,02,03 Comp.					
Non Polar HEM	ND	6.5	EPA 1664A	2-2-22	2-2-22	
Client ID:	LGAC-INF-1,2,3-012622 Comp.					
Laboratory ID:	01-213-04,05,06 Comp.					
Non Polar HEM	ND	7.2	EPA 1664A	2-2-22	2-2-22	
Client ID:	LGAC-MID-1,2,3-012622 Comp.					
Laboratory ID:	01-213-07,08,09 Comp.					
Non Polar HEM	ND	7.5	EPA 1664A	2-2-22	2-2-22	



Date of Report: February 3, 2022
 Samples Submitted: January 26, 2022
 Laboratory Reference: 2201-213
 Project: 060172

**SILICA GEL TREATED
 HEXANE EXTRACTABLE MATERIAL
 EPA 1664A
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0202W1					
Non Polar HEM	ND	5.0	EPA 1664A	2-2-22	2-2-22	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0202W1									
	SB	SBD	SB	SBD	SB	SBD				
Non Polar HEM	18.7	18.5	20.0	20.0	94	93	66-105	1	19	





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MA 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

Turnaround Request
 (in working days)

Laboratory Number: **01-213**

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Company: Aspect Consulting
 Project Number: 0600172
 Project Name: Spic n' Span
 Project Manager: Jeremy Porter
 Sampled by: MMR

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	LGAC-EFF-1-012022	11/20/22	1245	Water	6
2	LGAC-EFF-2-012022		1250		2
3	LGAC-EFF-3-012022		1255		2
4	LGAC-INF-1-012022		1245		6
5	LGAC-INF-2-012022		1250		2
6	LGAC-INF-3-012022		1255		2
7	LGAC-MID-1-012022		1300		6
8	LGAC-MID-2-012022		1305		2
9	LGAC-MID-3-012022		1310		2

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> 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	Non-Polar FOG	% Moisture
6					X													X	
2																			
2																			
6					X													X	
2																			
2																			
2																			

Signature	Company	Date	Time	Comments/Special Instructions
<u>Jeremy Porter</u>	<u>Aspect</u>	<u>11/20/22</u>	<u>1415</u>	
<u>Melinda Smith</u>	<u>OSE</u>	<u>11/20/22</u>	<u>1415</u>	

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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

February 18, 2022

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2202-220

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on February 17, 2022.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: February 18, 2022
Samples Submitted: February 17, 2022
Laboratory Reference: 2202-220
Project: 060172

Case Narrative

Samples were collected on February 17, 2022 and received by the laboratory on February 17, 2022. 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: February 18, 2022
 Samples Submitted: February 17, 2022
 Laboratory Reference: 2202-220
 Project: 060172

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Carbon
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-01-021722					
Laboratory ID:	02-220-01					
Dichlorodifluoromethane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Chloromethane	ND	0.34	EPA 8260D	2-17-22	2-17-22	
Vinyl Chloride	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Bromomethane	ND	0.34	EPA 8260D	2-17-22	2-17-22	
Chloroethane	ND	0.34	EPA 8260D	2-17-22	2-17-22	
Trichlorofluoromethane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,1-Dichloroethene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Acetone	12	0.68	EPA 8260D	2-17-22	2-17-22	
Iodomethane	ND	0.34	EPA 8260D	2-17-22	2-17-22	
Carbon Disulfide	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Methylene Chloride	ND	0.34	EPA 8260D	2-17-22	2-17-22	
(trans) 1,2-Dichloroethene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Methyl t-Butyl Ether	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,1-Dichloroethane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Vinyl Acetate	ND	0.34	EPA 8260D	2-17-22	2-17-22	
2,2-Dichloropropane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
(cis) 1,2-Dichloroethene	0.14	0.068	EPA 8260D	2-17-22	2-17-22	
2-Butanone	11	0.34	EPA 8260D	2-17-22	2-17-22	
Bromochloromethane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Chloroform	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,1,1-Trichloroethane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Carbon Tetrachloride	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,1-Dichloropropene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Benzene	0.13	0.068	EPA 8260D	2-17-22	2-17-22	
1,2-Dichloroethane	0.12	0.068	EPA 8260D	2-17-22	2-17-22	
Trichloroethene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,2-Dichloropropane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Dibromomethane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Bromodichloromethane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
2-Chloroethyl Vinyl Ether	ND	0.88	EPA 8260D	2-17-22	2-17-22	
(cis) 1,3-Dichloropropene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Methyl Isobutyl Ketone	0.92	0.34	EPA 8260D	2-17-22	2-17-22	
Toluene	ND	0.34	EPA 8260D	2-17-22	2-17-22	
(trans) 1,3-Dichloropropene	ND	0.068	EPA 8260D	2-17-22	2-17-22	



Date of Report: February 18, 2022
 Samples Submitted: February 17, 2022
 Laboratory Reference: 2202-220
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	LGAC-01-021722					
Laboratory ID:	02-220-01					
1,1,2-Trichloroethane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Tetrachloroethene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,3-Dichloropropane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
2-Hexanone	0.48	0.34	EPA 8260D	2-17-22	2-17-22	
Dibromochloromethane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,2-Dibromoethane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Chlorobenzene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,1,1,2-Tetrachloroethane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Ethylbenzene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
m,p-Xylene	ND	0.14	EPA 8260D	2-17-22	2-17-22	
o-Xylene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Styrene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Bromoform	ND	0.34	EPA 8260D	2-17-22	2-17-22	
Isopropylbenzene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Bromobenzene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,1,2,2-Tetrachloroethane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,2,3-Trichloropropane	ND	0.068	EPA 8260D	2-17-22	2-17-22	
n-Propylbenzene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
2-Chlorotoluene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
4-Chlorotoluene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,3,5-Trimethylbenzene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
tert-Butylbenzene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,2,4-Trimethylbenzene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
sec-Butylbenzene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,3-Dichlorobenzene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
p-Isopropyltoluene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,4-Dichlorobenzene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,2-Dichlorobenzene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
n-Butylbenzene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
1,2-Dibromo-3-chloropropane	ND	0.43	EPA 8260D	2-17-22	2-17-22	
1,2,4-Trichlorobenzene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
Hexachlorobutadiene	ND	0.34	EPA 8260D	2-17-22	2-17-22	
Naphthalene	0.40	0.34	EPA 8260D	2-17-22	2-17-22	
1,2,3-Trichlorobenzene	ND	0.068	EPA 8260D	2-17-22	2-17-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>71-130</i>				



Date of Report: February 18, 2022
 Samples Submitted: February 17, 2022
 Laboratory Reference: 2202-220
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 1 of 2

Matrix: Solid
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0217S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Chloromethane	ND	0.0050	EPA 8260D	2-17-22	2-17-22	
Vinyl Chloride	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Bromomethane	ND	0.0050	EPA 8260D	2-17-22	2-17-22	
Chloroethane	ND	0.0050	EPA 8260D	2-17-22	2-17-22	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Acetone	ND	0.010	EPA 8260D	2-17-22	2-17-22	
Iodomethane	ND	0.0050	EPA 8260D	2-17-22	2-17-22	
Carbon Disulfide	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Methylene Chloride	ND	0.0050	EPA 8260D	2-17-22	2-17-22	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Vinyl Acetate	ND	0.0050	EPA 8260D	2-17-22	2-17-22	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
2-Butanone	ND	0.0050	EPA 8260D	2-17-22	2-17-22	
Bromochloromethane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Chloroform	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Benzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Trichloroethene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Dibromomethane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Bromodichloromethane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
2-Chloroethyl Vinyl Ether	ND	0.013	EPA 8260D	2-17-22	2-17-22	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	2-17-22	2-17-22	
Toluene	ND	0.0050	EPA 8260D	2-17-22	2-17-22	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	



Date of Report: February 18, 2022
 Samples Submitted: February 17, 2022
 Laboratory Reference: 2202-220
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0217S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Tetrachloroethene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
2-Hexanone	ND	0.0050	EPA 8260D	2-17-22	2-17-22	
Dibromochloromethane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Chlorobenzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Ethylbenzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
m,p-Xylene	ND	0.0020	EPA 8260D	2-17-22	2-17-22	
o-Xylene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Styrene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Bromoform	ND	0.0050	EPA 8260D	2-17-22	2-17-22	
Isopropylbenzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Bromobenzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
n-Propylbenzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
2-Chlorotoluene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
4-Chlorotoluene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
tert-Butylbenzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
sec-Butylbenzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
n-Butylbenzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
1,2-Dibromo-3-chloropropane	ND	0.0064	EPA 8260D	2-17-22	2-17-22	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	2-17-22	2-17-22	
Naphthalene	ND	0.0050	EPA 8260D	2-17-22	2-17-22	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	2-17-22	2-17-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>113</i>	<i>71-130</i>				



Date of Report: February 18, 2022
 Samples Submitted: February 17, 2022
 Laboratory Reference: 2202-220
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0217S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0522	0.0506	0.0500	0.0500	104	101	71-131	3	19	
Benzene	0.0472	0.0476	0.0500	0.0500	94	95	73-124	1	18	
Trichloroethene	0.0547	0.0567	0.0500	0.0500	109	113	79-130	4	18	
Toluene	0.0498	0.0533	0.0500	0.0500	100	107	76-123	7	18	
Chlorobenzene	0.0539	0.0554	0.0500	0.0500	108	111	78-122	3	18	
<i>Surrogate:</i>										
Dibromofluoromethane					90	87	74-131			
Toluene-d8					102	104	78-128			
4-Bromofluorobenzene					108	111	71-130			





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





**Mv 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

Turnaround Request
(in working days)

(Check One)

- Same Day 1 Day
- 2 Days 3 Days
- Standard (7 Days)

48 hr - FAT
_____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Laboratory Number: 02-220																	
1	LGAC-01-021722	2/17/22	1115	Carbon	5	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	<input checked="" type="checkbox"/> 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	% Moisture

Received/Date	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		Aspect	2/17/22	1232	
Received		Aspect	2/17/22	1232	
Relinquished		Aspect	2/17/22	12:52	
Received		Aspect	2/17/22	1252	
Relinquished		Aspect	2/17/22	1252	
Received					
Relinquished					
Reviewed/Date		Reviewed/Date			

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)

VGAC

VGAC -- Effluent

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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Michael Erdahl, B.S.
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August 12, 2021

Jeremy Porter, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Porter:

Included are the results from the testing of material submitted on August 9, 2021 from the Spic N Span 652 S Dearborn St 060172, F&BI 108130 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Aspect Data
ASP0812R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 9, 2020 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Spic N Span 652 S Dearborn St 060172, F&BI 108130 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
108130 -01	VGAC-1-INF-080921
108130 -02	VGAC-1-EFF-080921

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

Individually certified canisters were provided for TO-15 sampling.

The APH EC5-8 aliphatics, APH EC9-12 aliphatics, and tetrachloroethene concentration in sample VGAC-1-INF-080921 exceeded the calibration range of the instrument. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-INF-080921	Client:	Aspect Consulting, LLC
Date Received:	08/09/21	Project:	060172, F&BI 108130
Date Collected:	08/09/21	Lab ID:	108130-01 1/6.2
Date Analyzed:	08/10/21	Data File:	081017.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	113	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	4,900 ve
APH EC9-12 aliphatics	5,500 ve
APH EC9-10 aromatics	350

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-EFF-080921	Client:	Aspect Consulting, LLC
Date Received:	08/09/21	Project:	060172, F&BI 108130
Date Collected:	08/09/21	Lab ID:	108130-02 1/5.3
Date Analyzed:	08/10/21	Data File:	081019.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	96	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	740
APH EC9-12 aliphatics	1,100
APH EC9-10 aromatics	220

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	060172, F&BI 108130
Date Collected:	Not Applicable	Lab ID:	01-1718 MB
Date Analyzed:	08/10/21	Data File:	081010.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	86	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-INF-080921	Client:	Aspect Consulting, LLC
Date Received:	08/09/21	Project:	060172, F&BI 108130
Date Collected:	08/09/21	Lab ID:	108130-01 1/6.2
Date Analyzed:	08/10/21	Data File:	081017.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	% Recovery:	Lower Limit:	Upper Limit:
Surrogates:			
4-Bromofluorobenzene	124	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	12	7.2	1,2-Dichloropropane	<1.4	<0.31
Dichlorodifluoromethane	4.2	0.86	1,4-Dioxane	<2.2	<0.62
Chloromethane	<23	<11	2,2,4-Trimethylpentane	<29	<6.2
F-114	<4.3	<0.62	Methyl methacrylate	<25	<6.2
Vinyl chloride	3.1	1.2	Heptane	<25	<6.2
1,3-Butadiene	0.91	0.41	Bromodichloromethane	<0.42	<0.062
Butane	<29	<12	Trichloroethene	190	35
Bromomethane	<14	<3.7	cis-1,3-Dichloropropene	<2.8	<0.62
Chloroethane	<16	<6.2	4-Methyl-2-pentanone	<25	<6.2
Vinyl bromide	<2.7	<0.62	trans-1,3-Dichloropropene	<2.8	<0.62
Ethanol	<47	<25	Toluene	<120	<31
Acrolein	<0.71	<0.31	1,1,2-Trichloroethane	<0.34	<0.062
Pentane	<18	<6.2	2-Hexanone	<25	<6.2
Trichlorofluoromethane	<14	<2.5	Tetrachloroethene	7,700 ve	1,100 ve
Acetone	<29	<12	Dibromochloromethane	<0.53	<0.062
2-Propanol	<53	<22	1,2-Dibromoethane (EDB)	<0.48	<0.062
1,1-Dichloroethene	<2.5	<0.62	Chlorobenzene	<2.9	<0.62
trans-1,2-Dichloroethene	3.0	0.75	Ethylbenzene	6.8	1.6
Methylene chloride	<220	<62	1,1,2,2-Tetrachloroethane	<0.85	<0.12
t-Butyl alcohol (TBA)	<75	<25	Nonane	76	14
3-Chloropropene	<9.7	<3.1	Isopropylbenzene	54	11
CFC-113	<4.8	<0.62	2-Chlorotoluene	<32	<6.2
Carbon disulfide	81	26	Propylbenzene	<15	<3.1
Methyl t-butyl ether (MTBE)	<11	<3.1	4-Ethyltoluene	<15	<3.1
Vinyl acetate	<44	<12	m,p-Xylene	25	5.8
1,1-Dichloroethane	<2.5	<0.62	o-Xylene	11	2.6
cis-1,2-Dichloroethene	97	24	Styrene	<5.3	<1.2
Hexane	<22	<6.2	Bromoform	<13	<1.2
Chloroform	6.1	1.3	Benzyl chloride	2.6	0.51
Ethyl acetate	<45	<12	1,3,5-Trimethylbenzene	20	4.1
Tetrahydrofuran	36	12	1,2,4-Trimethylbenzene	85	17
2-Butanone (MEK)	<18	<6.2	1,3-Dichlorobenzene	<3.7	<0.62
1,2-Dichloroethane (EDC)	1.5	0.36	1,4-Dichlorobenzene	<1.4	<0.24
1,1,1-Trichloroethane	<3.4	<0.62	1,2-Dichlorobenzene	<3.7	<0.62
Carbon tetrachloride	<2	<0.31	1,2,4-Trichlorobenzene	<4.6	<0.62
Benzene	26	8.1	Naphthalene	2.8	0.54
Cyclohexane	<43	<12	Hexachlorobutadiene	<1.3	<0.12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-EFF-080921	Client:	Aspect Consulting, LLC
Date Received:	08/09/21	Project:	060172, F&BI 108130
Date Collected:	08/09/21	Lab ID:	108130-02 1/5.3
Date Analyzed:	08/10/21	Data File:	081019.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	106	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	9.3 jl	5.4 jl	1,2-Dichloropropane	<1.2	<0.26
Dichlorodifluoromethane	2.8	0.57	1,4-Dioxane	<1.9	<0.53
Chloromethane	<20	<9.5	2,2,4-Trimethylpentane	<25	<5.3
F-114	<3.7	<0.53	Methyl methacrylate	<22	<5.3
Vinyl chloride	4.9	1.9	Heptane	<22	<5.3
1,3-Butadiene	<0.23	<0.11	Bromodichloromethane	<0.36	<0.053
Butane	<25	<11	Trichloroethene	<0.57	<0.11
Bromomethane	<12	<3.2	cis-1,3-Dichloropropene	<2.4	<0.53
Chloroethane	<14	<5.3	4-Methyl-2-pentanone	<22	<5.3
Vinyl bromide	<2.3	<0.53	trans-1,3-Dichloropropene	<2.4	<0.53
Ethanol	<40	<21	Toluene	<100	<26
Acrolein	<0.61	<0.26	1,1,2-Trichloroethane	<0.29	<0.053
Pentane	<16	<5.3	2-Hexanone	<22	<5.3
Trichlorofluoromethane	<12	<2.1	Tetrachloroethene	<36	<5.3
Acetone	<25	<11	Dibromochloromethane	<0.45	<0.053
2-Propanol	<46	<19	1,2-Dibromoethane (EDB)	<0.41	<0.053
1,1-Dichloroethene	<2.1	<0.53	Chlorobenzene	<2.4	<0.53
trans-1,2-Dichloroethene	<2.1	<0.53	Ethylbenzene	3.3	0.75
Methylene chloride	<180	<53	1,1,2,2-Tetrachloroethane	<0.73	<0.11
t-Butyl alcohol (TBA)	<64	<21	Nonane	47	8.9
3-Chloropropene	<8.3	<2.6	Isopropylbenzene	27	5.4
CFC-113	<4.1	<0.53	2-Chlorotoluene	<27	<5.3
Carbon disulfide	<33	<11	Propylbenzene	<13	<2.6
Methyl t-butyl ether (MTBE)	<9.6	<2.6	4-Ethyltoluene	<13	<2.6
Vinyl acetate	<37	<11	m,p-Xylene	13	2.9
1,1-Dichloroethane	<2.1	<0.53	o-Xylene	6.8	1.6
cis-1,2-Dichloroethene	<2.1	<0.53	Styrene	<4.5	<1.1
Hexane	<19	<5.3	Bromoform	<11	<1.1
Chloroform	<0.26	<0.053	Benzyl chloride	<0.27	<0.053
Ethyl acetate	<38	<11	1,3,5-Trimethylbenzene	15	3.1
Tetrahydrofuran	9.9	3.4	1,2,4-Trimethylbenzene	61	12
2-Butanone (MEK)	<16	<5.3	1,3-Dichlorobenzene	<3.2	<0.53
1,2-Dichloroethane (EDC)	<0.21	<0.053	1,4-Dichlorobenzene	<1.2	<0.2
1,1,1-Trichloroethane	<2.9	<0.53	1,2-Dichlorobenzene	<3.2	<0.53
Carbon tetrachloride	<1.7	<0.26	1,2,4-Trichlorobenzene	<3.9	<0.53
Benzene	2.2	0.69	Naphthalene	1.4	0.28
Cyclohexane	<36	<11	Hexachlorobutadiene	<1.1	<0.11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	060172, F&BI 108130
Date Collected:	Not Applicable	Lab ID:	01-1718 MB
Date Analyzed:	08/10/21	Data File:	081010.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2 j1	<0.7 j1	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.49	<0.1	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<0.7	<0.1	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<2.3	<0.6	cis-1,3-Dichloropropene	<0.45	<0.1
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<4.1	<1
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<19	<5
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<3	<1	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<1.6	<0.5	Isopropylbenzene	<2.5	<0.5
CFC-113	<0.77	<0.1	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<2.5	<0.5
Methyl t-butyl ether (MTBE)	<1.8	<0.5	4-Ethyltoluene	<2.5	<0.5
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<2.5	<0.5
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<2.5	<0.5
2-Butanone (MEK)	<2.9	<1	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/21

Date Received: 08/09/21

Project: Spic N Span 652 S Dearborn St 060172, F&BI 108130

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 108130-01 1/6.2 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	9,700	9,600	1
APH EC9-12 aliphatics	ug/m3	5,500	5,600	2
APH EC9-10 aromatics	ug/m3	350	360	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	72	70-130
APH EC9-12 aliphatics	ug/m3	67	92	70-130
APH EC9-10 aromatics	ug/m3	67	93	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/21

Date Received: 08/09/21

Project: Spic N Span 652 S Dearborn St 060172, F&BI 108130

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 108130-01 1/6.2 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	12	13	8
Dichlorodifluoromethane	ug/m3	4.2	5.0	17
Chloromethane	ug/m3	<23	<23	nm
F-114	ug/m3	<4.3	<4.3	nm
Vinyl chloride	ug/m3	3.1	3.1	0
1,3-Butadiene	ug/m3	0.91	0.88	3
Butane	ug/m3	<29	<29	nm
Bromomethane	ug/m3	<14	<14	nm
Chloroethane	ug/m3	<16	<16	nm
Vinyl bromide	ug/m3	<2.7	<2.7	nm
Ethanol	ug/m3	<47	<47	nm
Acrolein	ug/m3	<0.71	<0.71	nm
Pentane	ug/m3	<18	<18	nm
Trichlorofluoromethane	ug/m3	<14	<14	nm
Acetone	ug/m3	<29	30	nm
2-Propanol	ug/m3	<53	<53	nm
1,1-Dichloroethene	ug/m3	<2.5	<2.5	nm
trans-1,2-Dichloroethene	ug/m3	3.0	2.9	3
Methylene chloride	ug/m3	<220	<220	nm
t-Butyl alcohol (TBA)	ug/m3	<75	<75	nm
3-Chloropropene	ug/m3	<9.7	<9.7	nm
CFC-113	ug/m3	<4.8	<4.8	nm
Carbon disulfide	ug/m3	81	83	2
Methyl t-butyl ether (MTBE)	ug/m3	<11	<11	nm
Vinyl acetate	ug/m3	<44	<44	nm
1,1-Dichloroethane	ug/m3	<2.5	<2.5	nm
cis-1,2-Dichloroethene	ug/m3	97	99	2
Hexane	ug/m3	<22	<22	nm
Chloroform	ug/m3	6.1	6.2	2
Ethyl acetate	ug/m3	<45	<45	nm
Tetrahydrofuran	ug/m3	36	35	3
2-Butanone (MEK)	ug/m3	<18	<18	nm
1,2-Dichloroethane (EDC)	ug/m3	1.5	1.5	0
1,1,1-Trichloroethane	ug/m3	<3.4	<3.4	nm
Carbon tetrachloride	ug/m3	<2	<2	nm
Benzene	ug/m3	26	26	0
Cyclohexane	ug/m3	<43	<43	nm
1,2-Dichloropropane	ug/m3	<1.4	<1.4	nm
1,4-Dioxane	ug/m3	<2.2	<2.2	nm
2,2,4-Trimethylpentane	ug/m3	<29	<29	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/21

Date Received: 08/09/21

Project: Spic N Span 652 S Dearborn St 060172, F&BI 108130

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 108130-01 1/6.2 (Duplicate, continued)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Methyl methacrylate	ug/m3	<25	<25	nm
Heptane	ug/m3	<25	<25	nm
Bromodichloromethane	ug/m3	<0.42	<0.42	nm
Trichloroethene	ug/m3	190	190	0
cis-1,3-Dichloropropene	ug/m3	<2.8	<2.8	nm
4-Methyl-2-pentanone	ug/m3	<25	<25	nm
trans-1,3-Dichloropropene	ug/m3	<2.8	<2.8	nm
Toluene	ug/m3	<120	<120	nm
1,1,2-Trichloroethane	ug/m3	<0.34	<0.34	nm
2-Hexanone	ug/m3	<25	<25	nm
Tetrachloroethene	ug/m3	7,700	7,700	0
Dibromochloromethane	ug/m3	<0.53	<0.53	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.48	<0.48	nm
Chlorobenzene	ug/m3	<2.9	<2.9	nm
Ethylbenzene	ug/m3	6.8	6.8	0
1,1,2,2-Tetrachloroethane	ug/m3	<0.85	<0.85	nm
Nonane	ug/m3	76	75	1
Isopropylbenzene	ug/m3	54	53	2
2-Chlorotoluene	ug/m3	<32	<32	nm
Propylbenzene	ug/m3	<15	<15	nm
4-Ethyltoluene	ug/m3	<15	<15	nm
m,p-Xylene	ug/m3	25	25	0
o-Xylene	ug/m3	11	11	0
Styrene	ug/m3	<5.3	<5.3	nm
Bromoform	ug/m3	<13	<13	nm
Benzyl chloride	ug/m3	2.6	2.8	7
1,3,5-Trimethylbenzene	ug/m3	20	20	0
1,2,4-Trimethylbenzene	ug/m3	85	84	1
1,3-Dichlorobenzene	ug/m3	<3.7	<3.7	nm
1,4-Dichlorobenzene	ug/m3	<1.4	<1.4	nm
1,2-Dichlorobenzene	ug/m3	<3.7	<3.7	nm
1,2,4-Trichlorobenzene	ug/m3	<4.6	<4.6	nm
Naphthalene	ug/m3	2.8	2.8	0
Hexachlorobutadiene	ug/m3	<1.3	<1.3	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/21

Date Received: 08/09/21

Project: Spic N Span 652 S Dearborn St 060172, F&BI 108130

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Propene	ug/m3	23	67 vo	70-130
Dichlorodifluoromethane	ug/m3	67	106	70-130
Chloromethane	ug/m3	28	96	70-130
F-114	ug/m3	94	97	70-130
Vinyl chloride	ug/m3	35	85	70-130
1,3-Butadiene	ug/m3	30	89	70-130
Butane	ug/m3	32	95	70-130
Bromomethane	ug/m3	52	101	70-130
Chloroethane	ug/m3	36	96	70-130
Vinyl bromide	ug/m3	59	106	70-130
Ethanol	ug/m3	25	101	70-130
Acrolein	ug/m3	31	92	70-130
Pentane	ug/m3	40	90	70-130
Trichlorofluoromethane	ug/m3	76	99	70-130
Acetone	ug/m3	32	89	70-130
2-Propanol	ug/m3	33	89	70-130
1,1-Dichloroethene	ug/m3	54	98	70-130
trans-1,2-Dichloroethene	ug/m3	54	96	70-130
Methylene chloride	ug/m3	94	76	70-130
t-Butyl alcohol (TBA)	ug/m3	41	91	70-130
3-Chloropropene	ug/m3	42	88	70-130
CFC-113	ug/m3	100	98	70-130
Carbon disulfide	ug/m3	42	102	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	92	70-130
Vinyl acetate	ug/m3	48	85	70-130
1,1-Dichloroethane	ug/m3	55	96	70-130
cis-1,2-Dichloroethene	ug/m3	54	97	70-130
Hexane	ug/m3	48	85	70-130
Chloroform	ug/m3	66	96	70-130
Ethyl acetate	ug/m3	49	91	70-130
Tetrahydrofuran	ug/m3	40	86	70-130
2-Butanone (MEK)	ug/m3	40	100	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	96	70-130
1,1,1-Trichloroethane	ug/m3	74	99	70-130
Carbon tetrachloride	ug/m3	85	100	70-130
Benzene	ug/m3	43	94	70-130
Cyclohexane	ug/m3	46	89	70-130
1,2-Dichloropropane	ug/m3	62	92	70-130
1,4-Dioxane	ug/m3	49	97	70-130
2,2,4-Trimethylpentane	ug/m3	63	93	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/21

Date Received: 08/09/21

Project: Spic N Span 652 S Dearborn St 060172, F&BI 108130

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (continued)

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Methyl methacrylate	ug/m3	55	92	70-130
Heptane	ug/m3	55	88	70-130
Bromodichloromethane	ug/m3	90	96	70-130
Trichloroethene	ug/m3	73	109	70-130
cis-1,3-Dichloropropene	ug/m3	61	100	70-130
4-Methyl-2-pentanone	ug/m3	55	96	70-130
trans-1,3-Dichloropropene	ug/m3	61	95	70-130
Toluene	ug/m3	51	98	70-130
1,1,2-Trichloroethane	ug/m3	74	97	70-130
2-Hexanone	ug/m3	55	93	70-130
Tetrachloroethene	ug/m3	92	105	70-130
Dibromochloromethane	ug/m3	120	99	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	97	70-130
Chlorobenzene	ug/m3	62	100	70-130
Ethylbenzene	ug/m3	59	91	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	94	70-130
Nonane	ug/m3	71	84	70-130
Isopropylbenzene	ug/m3	66	98	70-130
2-Chlorotoluene	ug/m3	70	93	70-130
Propylbenzene	ug/m3	66	95	70-130
4-Ethyltoluene	ug/m3	66	91	70-130
m,p-Xylene	ug/m3	120	96	70-130
o-Xylene	ug/m3	59	100	70-130
Styrene	ug/m3	58	95	70-130
Bromoform	ug/m3	140	102	70-130
Benzyl chloride	ug/m3	70	101	70-130
1,3,5-Trimethylbenzene	ug/m3	66	91	70-130
1,2,4-Trimethylbenzene	ug/m3	66	92	70-130
1,3-Dichlorobenzene	ug/m3	81	102	70-130
1,4-Dichlorobenzene	ug/m3	81	97	70-130
1,2-Dichlorobenzene	ug/m3	81	100	70-130
1,2,4-Trichlorobenzene	ug/m3	100	93	70-130
Naphthalene	ug/m3	71	98	70-130
Hexachlorobutadiene	ug/m3	140	100	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

108130

SAMPLE CHAIN OF CUSTODY

ME 8/19/21

Page # 1 of 1

TURNAROUND TIME

Standard

RUSH 72 HOURS

Rush charges authorized by:

SAMPLE DISPOSAL

Default: Clean after 3 days

Archive (Fee may apply)

Report To: Jeremy Pette

Company: Aspect Consulting

Address: 710 2nd Ave Suite 550

City, State, ZIP Seattle, WA 98104

Phone: 206.740.2129

Email: jpette@aspectconsulting.com

SAMPLERS (signature)

PROJECT NAME & ADDRESS

Spic N Span

652 S. Dearborn St.

Signature: Jeremy Pette

PO #

060172

NOTES:

INVOICE TO

APP

SAMPLE INFORMATION

ANALYSIS REQUESTED

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	Helium	Notes
VGAC-1-INF-080921	01	3260	19	IA / (SG)	08/09/21	30	1345	5	1351	X			X		
VGAC-1-EFF-080921	02	3357	12	IA / (SG)	08/09/21	27	1357	5	1408	X			X		
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											

Samples received at 25°C

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: *Jeremy Pette*

Monique Rutter

Aspect

08/09/21 15:14

Received by: *Will Raddford*

Will Raddford

FBT

8/9/21 15:14

Relinquished by:

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 10, 2021

Jeremy Porter, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Porter:

Included are the results from the testing of material submitted on August 5, 2021 from the Spic 'n Span 060172, F&BI 108080 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Aspect Data
ASP0810R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 5, 2021 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Spic 'n Span 060172, F&BI 108080 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
108080 -01	VGAC-1-INF-080521
108080 -02	VGAC-1-EFF-080521

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

The tetrachloroethene concentration in sample VGAC-1-INF-080521 exceeded the calibration range of the instrument. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-INF-080521	Client:	Aspect Consulting, LLC
Date Received:	08/05/21	Project:	Spic 'n Span 060172, F&BI 108080
Date Collected:	08/05/21	Lab ID:	108080-01 1/17
Date Analyzed:	08/06/21	Data File:	080532.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	100	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	6,400
APH EC9-12 aliphatics	6,000
APH EC9-10 aromatics	1,900

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-EFF-080521	Client:	Aspect Consulting, LLC
Date Received:	08/05/21	Project:	Spic 'n Span 060172, F&BI 108080
Date Collected:	08/05/21	Lab ID:	108080-02 1/6.0
Date Analyzed:	08/06/21	Data File:	080529.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<450
APH EC9-12 aliphatics	300
APH EC9-10 aromatics	1,700

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic 'n Span 060172, F&BI 108080
Date Collected:	Not Applicable	Lab ID:	01-1726 MB
Date Analyzed:	08/05/21	Data File:	080513.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	83	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-INF-080521	Client:	Aspect Consulting, LLC
Date Received:	08/05/21	Project:	Spic 'n Span 060172, F&BI 108080
Date Collected:	08/05/21	Lab ID:	108080-01 1/17
Date Analyzed:	08/06/21	Data File:	080532.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	110	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<20	<12	1,2-Dichloropropane	<3.9	<0.85
Dichlorodifluoromethane	<8.4	<1.7	1,4-Dioxane	<6.1	<1.7
Chloromethane	<63	<31	2,2,4-Trimethylpentane	<79	<17
F-114	<12	<1.7	Methyl methacrylate	<70	<17
Vinyl chloride	7.7	3.0	Heptane	<70	<17
1,3-Butadiene	<0.75	<0.34	Bromodichloromethane	<1.1	<0.17
Butane	<81	<34	Trichloroethene	230	43
Bromomethane	<40	<10	cis-1,3-Dichloropropene	<7.7	<1.7
Chloroethane	<45	<17	4-Methyl-2-pentanone	<70	<17
Vinyl bromide	<7.4	<1.7	trans-1,3-Dichloropropene	<7.7	<1.7
Ethanol	<130	<68	Toluene	<320	<85
Acrolein	<1.9	<0.85	1,1,2-Trichloroethane	<0.93	<0.17
Pentane	<50	<17	2-Hexanone	<70	<17
Trichlorofluoromethane	<38	<6.8	Tetrachloroethene	14,000 ve	2,000 ve
Acetone	<81	<34	Dibromochloromethane	<1.4	<0.17
2-Propanol	<150	<59	1,2-Dibromoethane (EDB)	<1.3	<0.17
1,1-Dichloroethene	<6.7	<1.7	Chlorobenzene	<7.8	<1.7
trans-1,2-Dichloroethene	<6.7	<1.7	Ethylbenzene	30	6.9
Methylene chloride	<590	<170	1,1,2,2-Tetrachloroethane	<2.3	<0.34
t-Butyl alcohol (TBA)	<210	<68	Nonane	<89	<17
3-Chloropropene	<27	<8.5	Isopropylbenzene	180	36
CFC-113	<13	<1.7	2-Chlorotoluene	<88	<17
Carbon disulfide	<110	<34	Propylbenzene	<42	<8.5
Methyl t-butyl ether (MTBE)	<31	<8.5	4-Ethyltoluene	49	10
Vinyl acetate	<120	<34	m,p-Xylene	120	27
1,1-Dichloroethane	<6.9	<1.7	o-Xylene	51	12
cis-1,2-Dichloroethene	110	29	Styrene	<14	<3.4
Hexane	<60	<17	Bromoform	<35	<3.4
Chloroform	2.9	0.59	Benzyl chloride	<0.88	<0.17
Ethyl acetate	<120	<34	1,3,5-Trimethylbenzene	91	18
Tetrahydrofuran	48	16	1,2,4-Trimethylbenzene	390	80
2-Butanone (MEK)	<50	<17	1,3-Dichlorobenzene	<10	<1.7
1,2-Dichloroethane (EDC)	<0.69	<0.17	1,4-Dichlorobenzene	<3.9	<0.65
1,1,1-Trichloroethane	<9.3	<1.7	1,2-Dichlorobenzene	<10	<1.7
Carbon tetrachloride	<5.3	<0.85	1,2,4-Trichlorobenzene	<13	<1.7
Benzene	74	23	Naphthalene	74	14
Cyclohexane	<120	<34	Hexachlorobutadiene	<3.6	<0.34

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-EFF-080521	Client:	Aspect Consulting, LLC
Date Received:	08/05/21	Project:	Spic 'n Span 060172, F&BI 108080
Date Collected:	08/05/21	Lab ID:	108080-02 1/6.0
Date Analyzed:	08/06/21	Data File:	080529.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	102	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<7.2	<4.2	1,2-Dichloropropane	<1.4	<0.3
Dichlorodifluoromethane	<3	<0.6	1,4-Dioxane	<2.2	<0.6
Chloromethane	<22	<11	2,2,4-Trimethylpentane	<28	<6
F-114	<4.2	<0.6	Methyl methacrylate	<25	<6
Vinyl chloride	<1.5	<0.6	Heptane	<25	<6
1,3-Butadiene	<0.27	<0.12	Bromodichloromethane	<0.4	<0.06
Butane	<29	<12	Trichloroethene	<0.64	<0.12
Bromomethane	<14	<3.6	cis-1,3-Dichloropropene	<2.7	<0.6
Chloroethane	<16	<6	4-Methyl-2-pentanone	<25	<6
Vinyl bromide	<2.6	<0.6	trans-1,3-Dichloropropene	<2.7	<0.6
Ethanol	<45	<24	Toluene	<110	<30
Acrolein	<0.69	<0.3	1,1,2-Trichloroethane	<0.33	<0.06
Pentane	<18	<6	2-Hexanone	<25	<6
Trichlorofluoromethane	<13	<2.4	Tetrachloroethene	<41	<6
Acetone	<29	<12	Dibromochloromethane	<0.51	<0.06
2-Propanol	<52	<21	1,2-Dibromoethane (EDB)	<0.46	<0.06
1,1-Dichloroethene	<2.4	<0.6	Chlorobenzene	<2.8	<0.6
trans-1,2-Dichloroethene	<2.4	<0.6	Ethylbenzene	18	4.1
Methylene chloride	<210	<60	1,1,2,2-Tetrachloroethane	<0.82	<0.12
t-Butyl alcohol (TBA)	<73	<24	Nonane	<31	<6
3-Chloropropene	<9.4	<3	Isopropylbenzene	40	8.1
CFC-113	<4.6	<0.6	2-Chlorotoluene	<31	<6
Carbon disulfide	<37	<12	Propylbenzene	17	3.5
Methyl t-butyl ether (MTBE)	<11	<3	4-Ethyltoluene	42	8.6
Vinyl acetate	<42	<12	m,p-Xylene	74	17
1,1-Dichloroethane	<2.4	<0.6	o-Xylene	34	7.8
cis-1,2-Dichloroethene	<2.4	<0.6	Styrene	<5.1	<1.2
Hexane	<21	<6	Bromoform	<12	<1.2
Chloroform	<0.29	<0.06	Benzyl chloride	0.40	0.078
Ethyl acetate	<43	<12	1,3,5-Trimethylbenzene	72	15
Tetrahydrofuran	<3.5	<1.2	1,2,4-Trimethylbenzene	340	69
2-Butanone (MEK)	<18	<6	1,3-Dichlorobenzene	<3.6	<0.6
1,2-Dichloroethane (EDC)	<0.24	<0.06	1,4-Dichlorobenzene	<1.4	<0.23
1,1,1-Trichloroethane	<3.3	<0.6	1,2-Dichlorobenzene	<3.6	<0.6
Carbon tetrachloride	<1.9	<0.3	1,2,4-Trichlorobenzene	<4.5	<0.6
Benzene	5.9	1.8	Naphthalene	100	19
Cyclohexane	<41	<12	Hexachlorobutadiene	<1.3	<0.12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic 'n Span 060172, F&BI 108080
Date Collected:	Not Applicable	Lab ID:	01-1726 MB
Date Analyzed:	08/05/21	Data File:	080513.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.49	<0.1	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<0.7	<0.1	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<2.3	<0.6	cis-1,3-Dichloropropene	<0.45	<0.1
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<4.1	<1
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<19	<5
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<3	<1	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<1.6	<0.5	Isopropylbenzene	<2.5	<0.5
CFC-113	<0.77	<0.1	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<2.5	<0.5
Methyl t-butyl ether (MTBE)	<1.8	<0.5	4-Ethyltoluene	<2.5	<0.5
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<2.5	<0.5
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<2.5	<0.5
2-Butanone (MEK)	<2.9	<1	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/10/21

Date Received: 08/05/21

Project: Spic 'n Span 060172, F&BI 108080

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 108080-02 1/6.0 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	<450	<450	nm
APH EC9-12 aliphatics	ug/m3	300	280	7
APH EC9-10 aromatics	ug/m3	1,700	1,700	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	73	70-130
APH EC9-12 aliphatics	ug/m3	67	94	70-130
APH EC9-10 aromatics	ug/m3	67	95	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/10/21

Date Received: 08/05/21

Project: Spic 'n Span 060172, F&BI 108080

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 108080-02 1/6.0 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	<7.2	<7.2	nm
Dichlorodifluoromethane	ug/m3	<3	<3	nm
Chloromethane	ug/m3	<22	<22	nm
F-114	ug/m3	<4.2	<4.2	nm
Vinyl chloride	ug/m3	<1.5	<1.5	nm
1,3-Butadiene	ug/m3	<0.27	<0.27	nm
Butane	ug/m3	<29	<29	nm
Bromomethane	ug/m3	<14	<14	nm
Chloroethane	ug/m3	<16	<16	nm
Vinyl bromide	ug/m3	<2.6	<2.6	nm
Ethanol	ug/m3	<45	<45	nm
Acrolein	ug/m3	<0.69	<0.69	nm
Pentane	ug/m3	<18	<18	nm
Trichlorofluoromethane	ug/m3	<13	<13	nm
Acetone	ug/m3	<29	<29	nm
2-Propanol	ug/m3	<52	<52	nm
1,1-Dichloroethene	ug/m3	<2.4	<2.4	nm
trans-1,2-Dichloroethene	ug/m3	<2.4	<2.4	nm
Methylene chloride	ug/m3	<210	<210	nm
t-Butyl alcohol (TBA)	ug/m3	<73	<73	nm
3-Chloropropene	ug/m3	<9.4	<9.4	nm
CFC-113	ug/m3	<4.6	<4.6	nm
Carbon disulfide	ug/m3	<37	<37	nm
Methyl t-butyl ether (MTBE)	ug/m3	<11	<11	nm
Vinyl acetate	ug/m3	<42	<42	nm
1,1-Dichloroethane	ug/m3	<2.4	<2.4	nm
cis-1,2-Dichloroethene	ug/m3	<2.4	<2.4	nm
Hexane	ug/m3	<21	<21	nm
Chloroform	ug/m3	<0.29	<0.29	nm
Ethyl acetate	ug/m3	<43	<43	nm
Tetrahydrofuran	ug/m3	<3.5	<3.5	nm
2-Butanone (MEK)	ug/m3	<18	<18	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.24	<0.24	nm
1,1,1-Trichloroethane	ug/m3	<3.3	<3.3	nm
Carbon tetrachloride	ug/m3	<1.9	<1.9	nm
Benzene	ug/m3	5.9	6.0	2
Cyclohexane	ug/m3	<41	<41	nm
1,2-Dichloropropane	ug/m3	<1.4	<1.4	nm
1,4-Dioxane	ug/m3	<2.2	<2.2	nm
2,2,4-Trimethylpentane	ug/m3	<28	<28	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/10/21

Date Received: 08/05/21

Project: Spic 'n Span 060172, F&BI 108080

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 108080-02 1/6.0 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Methyl methacrylate	ug/m3	<25	<25	nm
Heptane	ug/m3	<25	<25	nm
Bromodichloromethane	ug/m3	<0.4	<0.4	nm
Trichloroethene	ug/m3	<0.64	<0.64	nm
cis-1,3-Dichloropropene	ug/m3	<2.7	<2.7	nm
4-Methyl-2-pentanone	ug/m3	<25	<25	nm
trans-1,3-Dichloropropene	ug/m3	<2.7	<2.7	nm
Toluene	ug/m3	<110	<110	nm
1,1,2-Trichloroethane	ug/m3	<0.33	<0.33	nm
2-Hexanone	ug/m3	<25	<25	nm
Tetrachloroethene	ug/m3	<41	<41	nm
Dibromochloromethane	ug/m3	<0.51	<0.51	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.46	<0.46	nm
Chlorobenzene	ug/m3	<2.8	<2.8	nm
Ethylbenzene	ug/m3	18	18	0
1,1,2,2-Tetrachloroethane	ug/m3	<0.82	<0.82	nm
Nonane	ug/m3	<31	<31	nm
Isopropylbenzene	ug/m3	40	39	3
2-Chlorotoluene	ug/m3	<31	<31	nm
Propylbenzene	ug/m3	17	18	6
4-Ethyltoluene	ug/m3	42	42	0
m,p-Xylene	ug/m3	74	74	0
o-Xylene	ug/m3	34	34	0
Styrene	ug/m3	<5.1	<5.1	nm
Bromoform	ug/m3	<12	<12	nm
Benzyl chloride	ug/m3	0.40	0.40	0
1,3,5-Trimethylbenzene	ug/m3	72	72	0
1,2,4-Trimethylbenzene	ug/m3	340	340	0
1,3-Dichlorobenzene	ug/m3	<3.6	<3.6	nm
1,4-Dichlorobenzene	ug/m3	<1.4	<1.4	nm
1,2-Dichlorobenzene	ug/m3	<3.6	<3.6	nm
1,2,4-Trichlorobenzene	ug/m3	<4.5	<4.5	nm
Naphthalene	ug/m3	100	100	0
Hexachlorobutadiene	ug/m3	<1.3	<1.3	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/10/21

Date Received: 08/05/21

Project: Spic 'n Span 060172, F&BI 108080

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Propene	ug/m3	23	84	70-130
Dichlorodifluoromethane	ug/m3	67	102	70-130
Chloromethane	ug/m3	28	85	70-130
F-114	ug/m3	94	97	70-130
Vinyl chloride	ug/m3	35	94	70-130
1,3-Butadiene	ug/m3	30	91	70-130
Butane	ug/m3	32	96	70-130
Bromomethane	ug/m3	52	101	70-130
Chloroethane	ug/m3	36	99	70-130
Vinyl bromide	ug/m3	59	110	70-130
Ethanol	ug/m3	25	100	70-130
Acrolein	ug/m3	31	97	70-130
Pentane	ug/m3	40	93	70-130
Trichlorofluoromethane	ug/m3	76	103	70-130
Acetone	ug/m3	32	93	70-130
2-Propanol	ug/m3	33	89	70-130
1,1-Dichloroethene	ug/m3	54	101	70-130
trans-1,2-Dichloroethene	ug/m3	54	100	70-130
Methylene chloride	ug/m3	94	88	70-130
t-Butyl alcohol (TBA)	ug/m3	41	94	70-130
3-Chloropropene	ug/m3	42	92	70-130
CFC-113	ug/m3	100	104	70-130
Carbon disulfide	ug/m3	42	103	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	98	70-130
Vinyl acetate	ug/m3	48	91	70-130
1,1-Dichloroethane	ug/m3	55	101	70-130
cis-1,2-Dichloroethene	ug/m3	54	102	70-130
Hexane	ug/m3	48	88	70-130
Chloroform	ug/m3	66	101	70-130
Ethyl acetate	ug/m3	49	96	70-130
Tetrahydrofuran	ug/m3	40	89	70-130
2-Butanone (MEK)	ug/m3	40	105	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	98	70-130
1,1,1-Trichloroethane	ug/m3	74	103	70-130
Carbon tetrachloride	ug/m3	85	104	70-130
Benzene	ug/m3	43	99	70-130
Cyclohexane	ug/m3	46	93	70-130
1,2-Dichloropropane	ug/m3	62	94	70-130
1,4-Dioxane	ug/m3	49	99	70-130
2,2,4-Trimethylpentane	ug/m3	63	96	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/10/21

Date Received: 08/05/21

Project: Spic 'n Span 060172, F&BI 108080

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Methyl methacrylate	ug/m3	55	99	70-130
Heptane	ug/m3	55	93	70-130
Bromodichloromethane	ug/m3	90	99	70-130
Trichloroethene	ug/m3	73	112	70-130
cis-1,3-Dichloropropene	ug/m3	61	104	70-130
4-Methyl-2-pentanone	ug/m3	55	109	70-130
trans-1,3-Dichloropropene	ug/m3	61	98	70-130
Toluene	ug/m3	51	103	70-130
1,1,2-Trichloroethane	ug/m3	74	99	70-130
2-Hexanone	ug/m3	55	94	70-130
Tetrachloroethene	ug/m3	92	107	70-130
Dibromochloromethane	ug/m3	120	101	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	98	70-130
Chlorobenzene	ug/m3	62	109	70-130
Ethylbenzene	ug/m3	59	98	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	100	70-130
Nonane	ug/m3	71	92	70-130
Isopropylbenzene	ug/m3	66	107	70-130
2-Chlorotoluene	ug/m3	70	100	70-130
Propylbenzene	ug/m3	66	101	70-130
4-Ethyltoluene	ug/m3	66	98	70-130
m,p-Xylene	ug/m3	120	104	70-130
o-Xylene	ug/m3	59	107	70-130
Styrene	ug/m3	58	103	70-130
Bromoform	ug/m3	140	111	70-130
Benzyl chloride	ug/m3	70	110	70-130
1,3,5-Trimethylbenzene	ug/m3	66	100	70-130
1,2,4-Trimethylbenzene	ug/m3	66	98	70-130
1,3-Dichlorobenzene	ug/m3	81	110	70-130
1,4-Dichlorobenzene	ug/m3	81	104	70-130
1,2-Dichlorobenzene	ug/m3	81	107	70-130
1,2,4-Trichlorobenzene	ug/m3	100	101	70-130
Naphthalene	ug/m3	71	111	70-130
Hexachlorobutadiene	ug/m3	140	107	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

108080

SAMPLE CHAIN OF CUSTODY

ME 081057a1

Page # of

Report To Jeremy Porter

Company Aspelt Consulting

Address 710 2nd Ave Suite 550

City, State, ZIP Seattle, WA 98104

Phone (206) 790-2129 Email porter@aspeltconsulting.com

SAMPLERS (signature) Monique Rute
 PROJECT NAME & ADDRESS Spic'n Spinn
 PO # 060172
 INVOICE TO AP

NOTES: 060172 R

TURNAROUND TIME
 Standard
 RUSH 72 WKS.
 Rush charges authorized by:
 SAMPLE DISPOSAL
 Default: Clean after 3 days
 Archive (Fee may apply)

SAMPLE INFORMATION							ANALYSIS REQUESTED				Notes				
Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan		TO15 BTEXN	TO15 cVOCs	APH	Helium
WAAC-NF-08052021	01	30000	03	IA / SG	08/09/2021	30	1335	5	1340	X			X		WAAC-2-NF-080521
WAAC-EFF-08052021	02	30710	111	IA SG	08/05/2021	30	1335	5	1341	X			X		WAAC-2-EFF-080521
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											

Samples received at 22 °C

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>Monique Rute</u>		Monique Rute		Aspelt		08/09/21	1415
Received by: <u>James Biogs</u>		James Biogs		F#B		815	1415
Relinquished by:							
Received by:							

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
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(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 16, 2021

Jeremy Porter, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Porter:

Included are the results from the testing of material submitted on September 8, 2021 from the Spic' N Span 060172, F&BI 109137 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Aspect Data
ASP0916R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 8, 2021 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Spic' N Span 060172, F&BI 109137 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
109137 -01	VGAC-1-INF-090821
109137 -02	VGAC-1-EFF-090821

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

Several analytes in sample VGAC-1-INF-090821 exceeded the calibration range. The data were flagged accordingly.

Benzyl chloride in the TO-15 laboratory control sample exceeded the acceptance criteria. The analyte was not detected in the samples, therefore the data were acceptable.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-INF-090821	Client:	Aspect Consulting, LLC
Date Received:	09/08/21	Project:	Spic' N Span 060172, F&BI 109137
Date Collected:	09/08/21	Lab ID:	109137-01 1/18
Date Analyzed:	09/09/21	Data File:	090919.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	100	70	130

Compounds:	Concentration
	ug/m3

APH EC5-8 aliphatics	25,000 ve
APH EC9-12 aliphatics	100,000 ve
APH EC9-10 aromatics	1,200

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-EFF-090821	Client:	Aspect Consulting, LLC
Date Received:	09/08/21	Project:	Spic' N Span 060172, F&BI 109137
Date Collected:	09/08/21	Lab ID:	109137-02 1/5.9
Date Analyzed:	09/09/21	Data File:	090917.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	96	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	460
APH EC9-12 aliphatics	630
APH EC9-10 aromatics	<150

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic' N Span 060172, F&BI 109137
Date Collected:	Not Applicable	Lab ID:	01-2016 MB
Date Analyzed:	09/09/21	Data File:	090911.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	96	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-INF-090821	Client:	Aspect Consulting, LLC
Date Received:	09/08/21	Project:	Spic' N Span 060172, F&BI 109137
Date Collected:	09/08/21	Lab ID:	109137-01 1/18
Date Analyzed:	09/09/21	Data File:	090919.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	99	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	110	61	1,2-Dichloropropane	7.8	1.7
Dichlorodifluoromethane	<8.9	<1.8	1,4-Dioxane	<6.5	<1.8
Chloromethane	<67	<32	2,2,4-Trimethylpentane	<84	<18
F-114	<13	<1.8	Methyl methacrylate	<74	<18
Vinyl chloride	14	5.5	Heptane	<74	<18
1,3-Butadiene	<0.8	<0.36	Bromodichloromethane	<1.2	<0.18
Butane	<86	<36	Trichloroethene	970	180
Bromomethane	<42	<11	cis-1,3-Dichloropropene	<8.2	<1.8
Chloroethane	<47	<18	4-Methyl-2-pentanone	<74	<18
Vinyl bromide	<7.9	<1.8	trans-1,3-Dichloropropene	<8.2	<1.8
Ethanol	<140	<72	Toluene	<340	<90
Acrolein	14	6.0	1,1,2-Trichloroethane	<0.98	<0.18
Pentane	<53	<18	2-Hexanone	<74	<18
Trichlorofluoromethane	<40	<7.2	Tetrachloroethene	18,000 ve	2,700 ve
Acetone	1,500 ve	630 ve	Dibromochloromethane	<1.5	<0.18
2-Propanol	<150	<63	1,2-Dibromoethane (EDB)	<1.4	<0.18
1,1-Dichloroethene	<7.1	<1.8	Chlorobenzene	<8.3	<1.8
trans-1,2-Dichloroethene	44	11	Ethylbenzene	21	4.9
Methylene chloride	<630	<180	1,1,2,2-Tetrachloroethane	<2.5	<0.36
t-Butyl alcohol (TBA)	<220	<72	Nonane	<94	<18
3-Chloropropene	<28	<9	Isopropylbenzene	<44	<9
CFC-113	<14	<1.8	2-Chlorotoluene	<93	<18
Carbon disulfide	170	56	Propylbenzene	45	9.2
Methyl t-butyl ether (MTBE)	<32	<9	4-Ethyltoluene	<44	<9
Vinyl acetate	300	85	m,p-Xylene	52	12
1,1-Dichloroethane	<7.3	<1.8	o-Xylene	20	4.7
cis-1,2-Dichloroethene	600	150	Styrene	<15	<3.6
Hexane	<63	<18	Bromoform	<37	<3.6
Chloroform	16	3.3	Benzyl chloride	<0.93	<0.18
Ethyl acetate	<130	<36	1,3,5-Trimethylbenzene	<44	<9
Tetrahydrofuran	68	23	1,2,4-Trimethylbenzene	76	16
2-Butanone (MEK)	230	78	1,3-Dichlorobenzene	<11	<1.8
1,2-Dichloroethane (EDC)	30	7.4	1,4-Dichlorobenzene	<4.1	<0.68
1,1,1-Trichloroethane	<9.8	<1.8	1,2-Dichlorobenzene	<11	<1.8
Carbon tetrachloride	<5.7	<0.9	1,2,4-Trichlorobenzene	<13	<1.8
Benzene	32	10	Naphthalene	29	5.6
Cyclohexane	<120	<36	Hexachlorobutadiene	<3.8	<0.36

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-EFF-090821	Client:	Aspect Consulting, LLC
Date Received:	09/08/21	Project:	Spic' N Span 060172, F&BI 109137
Date Collected:	09/08/21	Lab ID:	109137-02 1/5.9
Date Analyzed:	09/09/21	Data File:	090917.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	120	69	1,2-Dichloropropane	<1.4	<0.29
Dichlorodifluoromethane	6.2	1.3	1,4-Dioxane	<2.1	<0.59
Chloromethane	<22	<11	2,2,4-Trimethylpentane	<28	<5.9
F-114	<4.1	<0.59	Methyl methacrylate	<24	<5.9
Vinyl chloride	18	6.9	Heptane	<24	<5.9
1,3-Butadiene	<0.26	<0.12	Bromodichloromethane	<0.4	<0.059
Butane	<28	<12	Trichloroethene	<0.63	<0.12
Bromomethane	<14	<3.5	cis-1,3-Dichloropropene	<2.7	<0.59
Chloroethane	<16	<5.9	4-Methyl-2-pentanone	<24	<5.9
Vinyl bromide	<2.6	<0.59	trans-1,3-Dichloropropene	<2.7	<0.59
Ethanol	53	28	Toluene	<110	<29
Acrolein	0.72	0.31	1,1,2-Trichloroethane	<0.32	<0.059
Pentane	<17	<5.9	2-Hexanone	<24	<5.9
Trichlorofluoromethane	<13	<2.4	Tetrachloroethene	<40	<5.9
Acetone	<28	<12	Dibromochloromethane	<0.5	<0.059
2-Propanol	<51	<21	1,2-Dibromoethane (EDB)	<0.45	<0.059
1,1-Dichloroethene	<2.3	<0.59	Chlorobenzene	<2.7	<0.59
trans-1,2-Dichloroethene	<2.3	<0.59	Ethylbenzene	4.1	0.94
Methylene chloride	<200	<59	1,1,2,2-Tetrachloroethane	<0.81	<0.12
t-Butyl alcohol (TBA)	<72	<24	Nonane	<31	<5.9
3-Chloropropene	<9.2	<2.9	Isopropylbenzene	<15	<2.9
CFC-113	<4.5	<0.59	2-Chlorotoluene	<31	<5.9
Carbon disulfide	<37	<12	Propylbenzene	<15	<2.9
Methyl t-butyl ether (MTBE)	<11	<2.9	4-Ethyltoluene	<15	<2.9
Vinyl acetate	<42	<12	m,p-Xylene	14	3.2
1,1-Dichloroethane	<2.4	<0.59	o-Xylene	5.4	1.2
cis-1,2-Dichloroethene	<2.3	<0.59	Styrene	<5	<1.2
Hexane	<21	<5.9	Bromoform	<12	<1.2
Chloroform	<0.29	<0.059	Benzyl chloride	<0.31	<0.059
Ethyl acetate	<43	<12	1,3,5-Trimethylbenzene	<15	<2.9
Tetrahydrofuran	42	14	1,2,4-Trimethylbenzene	<15	<2.9
2-Butanone (MEK)	<17	<5.9	1,3-Dichlorobenzene	<3.5	<0.59
1,2-Dichloroethane (EDC)	<0.24	<0.059	1,4-Dichlorobenzene	<1.3	<0.22
1,1,1-Trichloroethane	<3.2	<0.59	1,2-Dichlorobenzene	<3.5	<0.59
Carbon tetrachloride	<1.9	<0.29	1,2,4-Trichlorobenzene	<4.4	<0.59
Benzene	<1.9	<0.59	Naphthalene	<1.5	<0.29
Cyclohexane	<41	<12	Hexachlorobutadiene	<1.3	<0.12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic' N Span 060172, F&BI 109137
Date Collected:	Not Applicable	Lab ID:	01-2016 MB
Date Analyzed:	09/09/21	Data File:	090911.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.49	<0.1	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<0.7	<0.1	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<2.3	<0.6	cis-1,3-Dichloropropene	<0.45	<0.1
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<4.1	<1
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<19	<5
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<3	<1	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<1.6	<0.5	Isopropylbenzene	<2.5	<0.5
CFC-113	<0.77	<0.1	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<2.5	<0.5
Methyl t-butyl ether (MTBE)	<1.8	<0.5	4-Ethyltoluene	<2.5	<0.5
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<2.5	<0.5
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<2.5	<0.5
2-Butanone (MEK)	<2.9	<1	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/21

Date Received: 09/08/21

Project: Spic' N Span 060172, F&BI 109137

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 109137-02 1/5.9 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	460	510	10
APH EC9-12 aliphatics	ug/m3	630	650	3
APH EC9-10 aromatics	ug/m3	<150	<150	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	94	70-130
APH EC9-12 aliphatics	ug/m3	67	125	70-130
APH EC9-10 aromatics	ug/m3	67	106	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/21

Date Received: 09/08/21

Project: Spic' N Span 060172, F&BI 109137

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 109137-02 1/5.9 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	120	130	8
Dichlorodifluoromethane	ug/m3	6.2	5.3	16
Chloromethane	ug/m3	<22	<22	nm
F-114	ug/m3	<4.1	<4.1	nm
Vinyl chloride	ug/m3	18	17	6
1,3-Butadiene	ug/m3	<0.26	<0.26	nm
Butane	ug/m3	<28	<28	nm
Bromomethane	ug/m3	<14	<14	nm
Chloroethane	ug/m3	<16	<16	nm
Vinyl bromide	ug/m3	<2.6	<2.6	nm
Ethanol	ug/m3	53	<44	nm
Acrolein	ug/m3	0.72	<0.68	nm
Pentane	ug/m3	<17	<17	nm
Trichlorofluoromethane	ug/m3	<13	<13	nm
Acetone	ug/m3	<28	<28	nm
2-Propanol	ug/m3	<51	<51	nm
1,1-Dichloroethene	ug/m3	<2.3	<2.3	nm
trans-1,2-Dichloroethene	ug/m3	<2.3	<2.3	nm
Methylene chloride	ug/m3	<200	<200	nm
t-Butyl alcohol (TBA)	ug/m3	<72	<72	nm
3-Chloropropene	ug/m3	<9.2	<9.2	nm
CFC-113	ug/m3	<4.5	<4.5	nm
Carbon disulfide	ug/m3	<37	<37	nm
Methyl t-butyl ether (MTBE)	ug/m3	<11	<11	nm
Vinyl acetate	ug/m3	<42	<42	nm
1,1-Dichloroethane	ug/m3	<2.4	<2.4	nm
cis-1,2-Dichloroethene	ug/m3	<2.3	<2.3	nm
Hexane	ug/m3	<21	<21	nm
Chloroform	ug/m3	<0.29	<0.29	nm
Ethyl acetate	ug/m3	<43	<43	nm
Tetrahydrofuran	ug/m3	42	41	2
2-Butanone (MEK)	ug/m3	<17	<17	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.24	<0.24	nm
1,1,1-Trichloroethane	ug/m3	<3.2	<3.2	nm
Carbon tetrachloride	ug/m3	<1.9	<1.9	nm
Benzene	ug/m3	<1.9	<1.9	nm
Cyclohexane	ug/m3	<41	<41	nm
1,2-Dichloropropane	ug/m3	<1.4	<1.4	nm
1,4-Dioxane	ug/m3	<2.1	<2.1	nm
2,2,4-Trimethylpentane	ug/m3	<28	<28	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/21

Date Received: 09/08/21

Project: Spic' N Span 060172, F&BI 109137

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 109137-02 1/5.9 (Duplicate, continued)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Methyl methacrylate	ug/m3	<24	<24	nm
Heptane	ug/m3	<24	<24	nm
Bromodichloromethane	ug/m3	<0.4	<0.4	nm
Trichloroethene	ug/m3	<0.63	<0.63	nm
cis-1,3-Dichloropropene	ug/m3	<2.7	<2.7	nm
4-Methyl-2-pentanone	ug/m3	<24	<24	nm
trans-1,3-Dichloropropene	ug/m3	<2.7	<2.7	nm
Toluene	ug/m3	<110	<110	nm
1,1,2-Trichloroethane	ug/m3	<0.32	<0.32	nm
2-Hexanone	ug/m3	<24	<24	nm
Tetrachloroethene	ug/m3	<40	<40	nm
Dibromochloromethane	ug/m3	<0.5	<0.5	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.45	<0.45	nm
Chlorobenzene	ug/m3	<2.7	<2.7	nm
Ethylbenzene	ug/m3	4.1	4.1	0
1,1,2,2-Tetrachloroethane	ug/m3	<0.81	<0.81	nm
Nonane	ug/m3	<31	<31	nm
Isopropylbenzene	ug/m3	<15	<15	nm
2-Chlorotoluene	ug/m3	<31	<31	nm
Propylbenzene	ug/m3	<15	<15	nm
4-Ethyltoluene	ug/m3	<15	<15	nm
m,p-Xylene	ug/m3	14	14	0
o-Xylene	ug/m3	5.4	5.5	2
Styrene	ug/m3	<5	<5	nm
Bromoform	ug/m3	<12	<12	nm
Benzyl chloride	ug/m3	<0.31	<0.31	nm
1,3,5-Trimethylbenzene	ug/m3	<15	<15	nm
1,2,4-Trimethylbenzene	ug/m3	<15	<15	nm
1,3-Dichlorobenzene	ug/m3	<3.5	<3.5	nm
1,4-Dichlorobenzene	ug/m3	<1.3	<1.3	nm
1,2-Dichlorobenzene	ug/m3	<3.5	<3.5	nm
1,2,4-Trichlorobenzene	ug/m3	<4.4	<4.4	nm
Naphthalene	ug/m3	<1.5	<1.5	nm
Hexachlorobutadiene	ug/m3	<1.3	<1.3	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/21

Date Received: 09/08/21

Project: Spic' N Span 060172, F&BI 109137

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Propene	ug/m3	23	116	70-130
Dichlorodifluoromethane	ug/m3	67	106	70-130
Chloromethane	ug/m3	28	109	70-130
F-114	ug/m3	94	103	70-130
Vinyl chloride	ug/m3	35	104	70-130
1,3-Butadiene	ug/m3	30	105	70-130
Butane	ug/m3	32	98	70-130
Bromomethane	ug/m3	52	129	70-130
Chloroethane	ug/m3	36	107	70-130
Vinyl bromide	ug/m3	59	115	70-130
Ethanol	ug/m3	25	100	70-130
Acrolein	ug/m3	31	102	70-130
Pentane	ug/m3	40	99	70-130
Trichlorofluoromethane	ug/m3	76	106	70-130
Acetone	ug/m3	32	110	70-130
2-Propanol	ug/m3	33	113	70-130
1,1-Dichloroethene	ug/m3	54	104	70-130
trans-1,2-Dichloroethene	ug/m3	54	105	70-130
Methylene chloride	ug/m3	94	96	70-130
t-Butyl alcohol (TBA)	ug/m3	41	109	70-130
3-Chloropropene	ug/m3	42	106	70-130
CFC-113	ug/m3	100	109	70-130
Carbon disulfide	ug/m3	42	100	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	108	70-130
Vinyl acetate	ug/m3	48	128	70-130
1,1-Dichloroethane	ug/m3	55	109	70-130
cis-1,2-Dichloroethene	ug/m3	54	104	70-130
Hexane	ug/m3	48	103	70-130
Chloroform	ug/m3	66	104	70-130
Ethyl acetate	ug/m3	49	115	70-130
Tetrahydrofuran	ug/m3	40	100	70-130
2-Butanone (MEK)	ug/m3	40	104	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	104	70-130
1,1,1-Trichloroethane	ug/m3	74	114	70-130
Carbon tetrachloride	ug/m3	85	115	70-130
Benzene	ug/m3	43	102	70-130
Cyclohexane	ug/m3	46	99	70-130
1,2-Dichloropropane	ug/m3	62	111	70-130
1,4-Dioxane	ug/m3	49	106	70-130
2,2,4-Trimethylpentane	ug/m3	63	108	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/21

Date Received: 09/08/21

Project: Spic' N Span 060172, F&BI 109137

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (Continued)

Analyte	Reporting Units	Spike Level	Percent	Acceptance Criteria
			Recovery LCS	
Methyl methacrylate	ug/m3	55	121	70-130
Heptane	ug/m3	55	107	70-130
Bromodichloromethane	ug/m3	90	112	70-130
Trichloroethene	ug/m3	73	105	70-130
cis-1,3-Dichloropropene	ug/m3	61	117	70-130
4-Methyl-2-pentanone	ug/m3	55	122	70-130
trans-1,3-Dichloropropene	ug/m3	61	122	70-130
Toluene	ug/m3	51	106	70-130
1,1,2-Trichloroethane	ug/m3	74	112	70-130
2-Hexanone	ug/m3	55	121	70-130
Tetrachloroethene	ug/m3	92	112	70-130
Dibromochloromethane	ug/m3	120	116	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	112	70-130
Chlorobenzene	ug/m3	62	107	70-130
Ethylbenzene	ug/m3	59	99	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	107	70-130
Nonane	ug/m3	71	105	70-130
Isopropylbenzene	ug/m3	66	104	70-130
2-Chlorotoluene	ug/m3	70	103	70-130
Propylbenzene	ug/m3	66	106	70-130
4-Ethyltoluene	ug/m3	66	105	70-130
m,p-Xylene	ug/m3	120	102	70-130
o-Xylene	ug/m3	59	102	70-130
Styrene	ug/m3	58	102	70-130
Bromoform	ug/m3	140	121	70-130
Benzyl chloride	ug/m3	70	143 vo	70-130
1,3,5-Trimethylbenzene	ug/m3	66	103	70-130
1,2,4-Trimethylbenzene	ug/m3	66	101	70-130
1,3-Dichlorobenzene	ug/m3	81	105	70-130
1,4-Dichlorobenzene	ug/m3	81	104	70-130
1,2-Dichlorobenzene	ug/m3	81	104	70-130
1,2,4-Trichlorobenzene	ug/m3	100	101	70-130
Naphthalene	ug/m3	71	91	70-130
Hexachlorobutadiene	ug/m3	140	107	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Report To Jeremy Porter

Company Aspect Consulting

Address 710 2nd Ave Suite 550

City, State, ZIP Seattle, WA 98104

Phone 206-790-2129 Email jporter@aspectconsulting.com

SAMPLERS (signature)

PROJECT NAME & ADDRESS

Spic N Span

PO #

00072

NOTES:

INVOICE TO

TURNAROUND TIME

Standard

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Default: Clean after 3 days

Archive (Fee may apply)

SAMPLE INFORMATION

ANALYSIS REQUESTED

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. (H ₂)	Field Initial Time	Final Vac. (H ₂)	Field Final Time	TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	Helium	Notes
V6AC-1-1NF-090821	01	8538	203	IA / SG	04/08/21	30	1125	5	1130	X	X	X			
V6AC-1-EFF-090821	02	8346	231	IA / SG	04/08/21	30	1133	5	1139	X	X	X			
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											

Samples received at 2300

Friedman & Bruja, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE

Reinquinshed by Monique Rutte

Reinquinshed by:

PRINT NAME

Monique Rutte

Fred B...

COMPANY

Aspect

F-B

DATE

04/08/21

1551

TIME

1551

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

December 6, 2021

Jeremy Porter, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Porter:

Included are the results from the testing of material submitted on November 19, 2021 from the Spic n Span 060172, F&BI 111360 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Aspect Data
ASP1206R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 19, 2021 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Spic n Span 060172, F&BI 111360 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
111360 -01	VGAC-EFF-111621
111360 -02	VGAC-INF-111621

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

Several TO-15 and APH analytes exceeded the calibration range. The data were qualified accordingly.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-EFF-111621	Client:	Aspect Consulting, LLC
Date Received:	11/19/21	Project:	Spic n Span 060172, F&BI 111360
Date Collected:	11/16/21	Lab ID:	111360-01 1/5.5
Date Analyzed:	11/22/21	Data File:	112214.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	78	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	500
APH EC9-12 aliphatics	<140
APH EC9-10 aromatics	<140

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-INF-111621	Client:	Aspect Consulting, LLC
Date Received:	11/19/21	Project:	Spic n Span 060172, F&BI 111360
Date Collected:	11/16/21	Lab ID:	111360-02 1/8.2
Date Analyzed:	11/22/21	Data File:	112215.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration
	ug/m3

APH EC5-8 aliphatics	6,600 ve
APH EC9-12 aliphatics	50,000 ve
APH EC9-10 aromatics	1,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic n Span 060172, F&BI 111360
Date Collected:	11/22/21	Lab ID:	01-2595 MB
Date Analyzed:	11/22/21	Data File:	112212.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	81	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-EFF-111621	Client:	Aspect Consulting, LLC
Date Received:	11/19/21	Project:	Spic n Span 060172, F&BI 111360
Date Collected:	11/16/21	Lab ID:	111360-01 1/5.5
Date Analyzed:	11/22/21	Data File:	112214.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	84	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	91	53	1,2-Dichloropropane	<1.3	<0.28
Dichlorodifluoromethane	3.4	0.69	1,4-Dioxane	<2	<0.55
Chloromethane	<20	<9.9	2,2,4-Trimethylpentane	<26	<5.5
F-114	<3.8	<0.55	Methyl methacrylate	<23	<5.5
Vinyl chloride	1.6	0.62	Heptane	<23	<5.5
1,3-Butadiene	<0.24	<0.11	Bromodichloromethane	<0.37	<0.055
Butane	52	22	Trichloroethene	<0.59	<0.11
Bromomethane	<13	<3.3	cis-1,3-Dichloropropene	<2.5	<0.55
Chloroethane	<15	<5.5	4-Methyl-2-pentanone	<23	<5.5
Vinyl bromide	<2.4	<0.55	trans-1,3-Dichloropropene	<2.5	<0.55
Ethanol	290 ve	160 ve	Toluene	<100	<27
Acrolein	<0.63	<0.28	1,1,2-Trichloroethane	<0.3	<0.055
Pentane	<16	<5.5	2-Hexanone	<23	<5.5
Trichlorofluoromethane	<12	<2.2	Tetrachloroethene	40	5.9
Acetone	520 ve	220 ve	Dibromochloromethane	<0.47	<0.055
2-Propanol	<47	<19	1,2-Dibromoethane (EDB)	<0.42	<0.055
1,1-Dichloroethene	<2.2	<0.55	Chlorobenzene	<2.5	<0.55
trans-1,2-Dichloroethene	<2.2	<0.55	Ethylbenzene	<2.4	<0.55
Methylene chloride	<190	<55	1,1,2,2-Tetrachloroethane	<0.76	<0.11
t-Butyl alcohol (TBA)	<67	<22	Nonane	<29	<5.5
3-Chloropropene	<8.6	<2.7	Isopropylbenzene	<14	<2.7
CFC-113	<4.2	<0.55	2-Chlorotoluene	<28	<5.5
Carbon disulfide	40	13	Propylbenzene	<14	<2.7
Methyl t-butyl ether (MTBE)	<9.9	<2.7	4-Ethyltoluene	<14	<2.7
Vinyl acetate	<39	<11	m,p-Xylene	<4.8	<1.1
1,1-Dichloroethane	<2.2	<0.55	o-Xylene	<2.4	<0.55
cis-1,2-Dichloroethene	<2.2	<0.55	Styrene	<4.7	<1.1
Hexane	<19	<5.5	Bromoform	<11	<1.1
Chloroform	<0.27	<0.055	Benzyl chloride	<0.28	<0.055
Ethyl acetate	<40	<11	1,3,5-Trimethylbenzene	<14	<2.7
Tetrahydrofuran	<3.2	<1.1	1,2,4-Trimethylbenzene	<14	<2.7
2-Butanone (MEK)	<16	<5.5	1,3-Dichlorobenzene	<3.3	<0.55
1,2-Dichloroethane (EDC)	<0.22	<0.055	1,4-Dichlorobenzene	<1.3	<0.21
1,1,1-Trichloroethane	<3	<0.55	1,2-Dichlorobenzene	<3.3	<0.55
Carbon tetrachloride	<1.7	<0.28	1,2,4-Trichlorobenzene	<4.1	<0.55
Benzene	<1.8	<0.55	Naphthalene	<1.4	<0.28
Cyclohexane	<38	<11	Hexachlorobutadiene	<1.2	<0.11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-INF-111621	Client:	Aspect Consulting, LLC
Date Received:	11/19/21	Project:	Spic n Span 060172, F&BI 111360
Date Collected:	11/16/21	Lab ID:	111360-02 1/8.2
Date Analyzed:	11/22/21	Data File:	112215.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	117	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	75	44	1,2-Dichloropropane	<1.9	<0.41
Dichlorodifluoromethane	<4.1	<0.82	1,4-Dioxane	<3	<0.82
Chloromethane	<30	<15	2,2,4-Trimethylpentane	<38	<8.2
F-114	<5.7	<0.82	Methyl methacrylate	<34	<8.2
Vinyl chloride	<2.1	<0.82	Heptane	<34	<8.2
1,3-Butadiene	<0.36	<0.16	Bromodichloromethane	<0.55	<0.082
Butane	<39	<16	Trichloroethene	190	36
Bromomethane	<19	<4.9	cis-1,3-Dichloropropene	<3.7	<0.82
Chloroethane	<22	<8.2	4-Methyl-2-pentanone	<34	<8.2
Vinyl bromide	<3.6	<0.82	trans-1,3-Dichloropropene	<3.7	<0.82
Ethanol	210	110	Toluene	<150	<41
Acrolein	38	17	1,1,2-Trichloroethane	0.45	0.082
Pentane	39	13	2-Hexanone	<34	<8.2
Trichlorofluoromethane	<18	<3.3	Tetrachloroethene	1,800 ve	270 ve
Acetone	5,300 ve	2,200 ve	Dibromochloromethane	<0.7	<0.082
2-Propanol	<71	<29	1,2-Dibromoethane (EDB)	<0.63	<0.082
1,1-Dichloroethene	<3.3	<0.82	Chlorobenzene	<3.8	<0.82
trans-1,2-Dichloroethene	8.0	2.0	Ethylbenzene	26	5.9
Methylene chloride	<280	<82	1,1,2,2-Tetrachloroethane	<1.1	<0.16
t-Butyl alcohol (TBA)	<99	<33	Nonane	<43	<8.2
3-Chloropropene	<13	<4.1	Isopropylbenzene	<20	<4.1
CFC-113	<6.3	<0.82	2-Chlorotoluene	<42	<8.2
Carbon disulfide	93	30	Propylbenzene	33	6.7
Methyl t-butyl ether (MTBE)	<15	<4.1	4-Ethyltoluene	29	6.0
Vinyl acetate	810 ve	230 ve	m,p-Xylene	64	15
1,1-Dichloroethane	<3.3	<0.82	o-Xylene	23	5.2
cis-1,2-Dichloroethene	97	25	Styrene	<7	<1.6
Hexane	<29	<8.2	Bromoform	<17	<1.6
Chloroform	13	2.6	Benzyl chloride	<0.42	<0.082
Ethyl acetate	<59	<16	1,3,5-Trimethylbenzene	23	4.8
Tetrahydrofuran	7.2	2.4	1,2,4-Trimethylbenzene	97	20
2-Butanone (MEK)	990 ve	340 ve	1,3-Dichlorobenzene	<4.9	<0.82
1,2-Dichloroethane (EDC)	6.4	1.6	1,4-Dichlorobenzene	3.4	0.56
1,1,1-Trichloroethane	<4.5	<0.82	1,2-Dichlorobenzene	7.0	1.2
Carbon tetrachloride	<2.6	<0.41	1,2,4-Trichlorobenzene	<6.1	<0.82
Benzene	45	14	Naphthalene	480	92
Cyclohexane	<56	<16	Hexachlorobutadiene	<1.7	<0.16

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic n Span 060172, F&BI 111360
Date Collected:	11/22/21	Lab ID:	01-2595 MB
Date Analyzed:	11/22/21	Data File:	112212.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	88	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.49	<0.1	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<0.7	<0.1	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<2.3	<0.6	cis-1,3-Dichloropropene	<0.45	<0.1
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<4.1	<1
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<19	<5
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<3	<1	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<1.6	<0.5	Isopropylbenzene	<2.5	<0.5
CFC-113	<0.77	<0.1	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<2.5	<0.5
Methyl t-butyl ether (MTBE)	<1.8	<0.5	4-Ethyltoluene	<2.5	<0.5
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<2.5	<0.5
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<2.5	<0.5
2-Butanone (MEK)	<2.9	<1	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/06/21

Date Received: 11/19/21

Project: Spic n Span 060172, F&BI 111360

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 111360-01 1/5.5 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	500	530	6
APH EC9-12 aliphatics	ug/m3	<140	<140	nm
APH EC9-10 aromatics	ug/m3	<140	<140	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	93	70-130
APH EC9-12 aliphatics	ug/m3	67	106	70-130
APH EC9-10 aromatics	ug/m3	67	87	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/06/21

Date Received: 11/19/21

Project: Spic n Span 060172, F&BI 111360

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 111360-01 1/5.5 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	91	84	8
Dichlorodifluoromethane	ug/m3	3.4	3.5	3
Chloromethane	ug/m3	<20	<20	nm
F-114	ug/m3	<3.8	<3.8	nm
Vinyl chloride	ug/m3	1.6	1.6	0
1,3-Butadiene	ug/m3	<0.24	<0.24	nm
Butane	ug/m3	52	52	0
Bromomethane	ug/m3	<13	<13	nm
Chloroethane	ug/m3	<15	<15	nm
Vinyl bromide	ug/m3	<2.4	<2.4	nm
Ethanol	ug/m3	290	280	4
Acrolein	ug/m3	<0.63	<0.63	nm
Pentane	ug/m3	<16	<16	nm
Trichlorofluoromethane	ug/m3	<12	<12	nm
Acetone	ug/m3	520	540	4
2-Propanol	ug/m3	<47	<47	nm
1,1-Dichloroethene	ug/m3	<2.2	<2.2	nm
trans-1,2-Dichloroethene	ug/m3	<2.2	<2.2	nm
Methylene chloride	ug/m3	<190	<190	nm
t-Butyl alcohol (TBA)	ug/m3	<67	<67	nm
3-Chloropropene	ug/m3	<8.6	<8.6	nm
CFC-113	ug/m3	<4.2	<4.2	nm
Carbon disulfide	ug/m3	40	42	5
Methyl t-butyl ether (MTBE)	ug/m3	<9.9	<9.9	nm
Vinyl acetate	ug/m3	<39	<39	nm
1,1-Dichloroethane	ug/m3	<2.2	<2.2	nm
cis-1,2-Dichloroethene	ug/m3	<2.2	<2.2	nm
Hexane	ug/m3	<19	<19	nm
Chloroform	ug/m3	<0.27	<0.27	nm
Ethyl acetate	ug/m3	<40	<40	nm
Tetrahydrofuran	ug/m3	<3.2	<3.2	nm
2-Butanone (MEK)	ug/m3	<16	<16	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.22	<0.22	nm
1,1,1-Trichloroethane	ug/m3	<3	<3	nm
Carbon tetrachloride	ug/m3	<1.7	<1.7	nm
Benzene	ug/m3	<1.8	<1.8	nm
Cyclohexane	ug/m3	<38	<38	nm
1,2-Dichloropropane	ug/m3	<1.3	<1.3	nm
1,4-Dioxane	ug/m3	<2	<2	nm
2,2,4-Trimethylpentane	ug/m3	<26	<26	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/06/21

Date Received: 11/19/21

Project: Spic n Span 060172, F&BI 111360

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 111360-01 1/5.5 (Duplicate, continued)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Methyl methacrylate	ug/m3	<23	<23	nm
Heptane	ug/m3	<23	<23	nm
Bromodichloromethane	ug/m3	<0.37	<0.37	nm
Trichloroethene	ug/m3	<0.59	<0.59	nm
cis-1,3-Dichloropropene	ug/m3	<2.5	<2.5	nm
4-Methyl-2-pentanone	ug/m3	<23	<23	nm
trans-1,3-Dichloropropene	ug/m3	<2.5	<2.5	nm
Toluene	ug/m3	<100	<100	nm
1,1,2-Trichloroethane	ug/m3	<0.3	<0.3	nm
2-Hexanone	ug/m3	<23	<23	nm
Tetrachloroethene	ug/m3	40	41	2
Dibromochloromethane	ug/m3	<0.47	0.52	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.42	0.72	nm
Chlorobenzene	ug/m3	<2.5	<2.5	nm
Ethylbenzene	ug/m3	<2.4	<2.4	nm
1,1,2,2-Tetrachloroethane	ug/m3	<0.76	<0.76	nm
Nonane	ug/m3	<29	<29	nm
Isopropylbenzene	ug/m3	<14	<14	nm
2-Chlorotoluene	ug/m3	<28	<28	nm
Propylbenzene	ug/m3	<14	<14	nm
4-Ethyltoluene	ug/m3	<14	<14	nm
m,p-Xylene	ug/m3	<4.8	<4.8	nm
o-Xylene	ug/m3	<2.4	<2.4	nm
Styrene	ug/m3	<4.7	<4.7	nm
Bromoform	ug/m3	<11	<11	nm
Benzyl chloride	ug/m3	<0.28	0.60	nm
1,3,5-Trimethylbenzene	ug/m3	<14	<14	nm
1,2,4-Trimethylbenzene	ug/m3	<14	<14	nm
1,3-Dichlorobenzene	ug/m3	<3.3	<3.3	nm
1,4-Dichlorobenzene	ug/m3	<1.3	<1.3	nm
1,2-Dichlorobenzene	ug/m3	<3.3	<3.3	nm
1,2,4-Trichlorobenzene	ug/m3	<4.1	<4.1	nm
Naphthalene	ug/m3	<1.4	<1.4	nm
Hexachlorobutadiene	ug/m3	<1.2	<1.2	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/06/21

Date Received: 11/19/21

Project: Spic n Span 060172, F&BI 111360

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Propene	ug/m3	23	109	70-130
Dichlorodifluoromethane	ug/m3	67	114	70-130
Chloromethane	ug/m3	28	108	70-130
F-114	ug/m3	94	123	70-130
Vinyl chloride	ug/m3	35	115	70-130
1,3-Butadiene	ug/m3	30	111	70-130
Butane	ug/m3	32	117	70-130
Bromomethane	ug/m3	52	128	70-130
Chloroethane	ug/m3	36	114	70-130
Vinyl bromide	ug/m3	59	115	70-130
Ethanol	ug/m3	25	102	70-130
Acrolein	ug/m3	31	100	70-130
Pentane	ug/m3	40	105	70-130
Trichlorofluoromethane	ug/m3	76	123	70-130
Acetone	ug/m3	32	112	70-130
2-Propanol	ug/m3	33	99	70-130
1,1-Dichloroethene	ug/m3	54	117	70-130
trans-1,2-Dichloroethene	ug/m3	54	113	70-130
Methylene chloride	ug/m3	94	109	70-130
t-Butyl alcohol (TBA)	ug/m3	41	110	70-130
3-Chloropropene	ug/m3	42	108	70-130
CFC-113	ug/m3	100	121	70-130
Carbon disulfide	ug/m3	42	117	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	109	70-130
Vinyl acetate	ug/m3	48	99	70-130
1,1-Dichloroethane	ug/m3	55	115	70-130
cis-1,2-Dichloroethene	ug/m3	54	115	70-130
Hexane	ug/m3	48	106	70-130
Chloroform	ug/m3	66	115	70-130
Ethyl acetate	ug/m3	49	105	70-130
Tetrahydrofuran	ug/m3	40	111	70-130
2-Butanone (MEK)	ug/m3	40	113	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	114	70-130
1,1,1-Trichloroethane	ug/m3	74	117	70-130
Carbon tetrachloride	ug/m3	85	115	70-130
Benzene	ug/m3	43	112	70-130
Cyclohexane	ug/m3	46	96	70-130
1,2-Dichloropropane	ug/m3	62	111	70-130
1,4-Dioxane	ug/m3	49	115	70-130
2,2,4-Trimethylpentane	ug/m3	63	110	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/06/21

Date Received: 11/19/21

Project: Spic n Span 060172, F&BI 111360

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample, continued

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Methyl methacrylate	ug/m3	55	115	70-130
Heptane	ug/m3	55	108	70-130
Bromodichloromethane	ug/m3	90	116	70-130
Trichloroethene	ug/m3	73	113	70-130
cis-1,3-Dichloropropene	ug/m3	61	119	70-130
4-Methyl-2-pentanone	ug/m3	55	117	70-130
trans-1,3-Dichloropropene	ug/m3	61	113	70-130
Toluene	ug/m3	51	115	70-130
1,1,2-Trichloroethane	ug/m3	74	116	70-130
2-Hexanone	ug/m3	55	111	70-130
Tetrachloroethene	ug/m3	92	119	70-130
Dibromochloromethane	ug/m3	120	124	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	113	70-130
Chlorobenzene	ug/m3	62	121	70-130
Ethylbenzene	ug/m3	59	110	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	113	70-130
Nonane	ug/m3	71	104	70-130
Isopropylbenzene	ug/m3	66	115	70-130
2-Chlorotoluene	ug/m3	70	112	70-130
Propylbenzene	ug/m3	66	110	70-130
4-Ethyltoluene	ug/m3	66	101	70-130
m,p-Xylene	ug/m3	120	114	70-130
o-Xylene	ug/m3	59	119	70-130
Styrene	ug/m3	58	114	70-130
Bromoform	ug/m3	140	114	70-130
Benzyl chloride	ug/m3	70	121	70-130
1,3,5-Trimethylbenzene	ug/m3	66	110	70-130
1,2,4-Trimethylbenzene	ug/m3	66	110	70-130
1,3-Dichlorobenzene	ug/m3	81	121	70-130
1,4-Dichlorobenzene	ug/m3	81	118	70-130
1,2-Dichlorobenzene	ug/m3	81	120	70-130
1,2,4-Trichlorobenzene	ug/m3	100	93	70-130
Naphthalene	ug/m3	71	104	70-130
Hexachlorobutadiene	ug/m3	140	110	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

111360

SAMPLE CHAIN OF CUSTODY

11-19-21

Page # 1 of 1

Report To: Jeremy Porter

Company: ASPECT CONSULTING

Address: 710 2nd AVE SUITE 550

City, State, ZIP: Seattle, WA 98104

Phone: _____ Email: porter@aspectconsulting.com

SAMPLERS (signature) <u>Monique Rute</u>	
PROJECT NAME & ADDRESS <u>Spic n Span</u>	PO # <u>000172</u>
NOTES:	INVOICE TO

TURNAROUND TIME	
<input checked="" type="checkbox"/> Standard	
<input type="checkbox"/> RUSH	
Rush charges authorized by: _____	
SAMPLE DISPOSAL	
<input type="checkbox"/> Default: Clean after 3 days	
<input type="checkbox"/> Archive (Fee may apply)	

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. (Hg)	Field Initial Time	Final Vac. (Hg)	Field Final Time	ANALYSIS REQUESTED				Notes	
										TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH		Helium
16A0-EFF-111021	01			IA / <u>SG</u>	11/10/21	30"	1343	5"	1344	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
16A0-INF-111021	02			IA / <u>SG</u>	11/10/21	30"	1352	5"	1357	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											

Samples received at 60 °C

Friedman & Bruyno, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044
 FORMS\COC\COCTO-15.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>Monique Rute</u>	Monique Rute	ASPECT	11/19/21	0922
<u>Jeremy Porter</u>	Jeremy Porter	ASPECT	11/19/21	0922
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

December 14, 2021

Jeremy Porter, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Porter:

Included are the results from the testing of material submitted on December 3, 2021 from the Spic n Span 060172, F&BI 112057 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Aspect Data
ASP1214R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 3, 2021 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Spic n Span 060172, F&BI 112057 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
112057 -01	VGAC-INF-3-120221
112057 -02	VGAC-EFF-3-120221

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

The concentration of several analytes exceeded the calibration range of the instrument. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-INF-3-120221	Client:	Aspect Consulting, LLC
Date Received:	12/03/21	Project:	Spic n Span 060172
Date Collected:	12/02/21	Lab ID:	112057-01 1/16
Date Analyzed:	12/08/21	Data File:	120729.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	105	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	4,000
APH EC9-12 aliphatics	13,000
APH EC9-10 aromatics	480

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-EFF-3-120221	Client:	Aspect Consulting, LLC
Date Received:	12/03/21	Project:	Spic n Span 060172
Date Collected:	12/02/21	Lab ID:	112057-02 1/8.5
Date Analyzed:	12/08/21	Data File:	120727.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	78	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	<640
APH EC9-12 aliphatics	<210
APH EC9-10 aromatics	<210

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic n Span 060172
Date Collected:	Not Applicable	Lab ID:	01-2772 MB
Date Analyzed:	12/07/21	Data File:	120711.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	76	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-INF-3-120221	Client:	Aspect Consulting, LLC
Date Received:	12/03/21	Project:	Spic n Span 060172
Date Collected:	12/02/21	Lab ID:	112057-01 1/16
Date Analyzed:	12/08/21	Data File:	120729.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	% Recovery:	Lower Limit:	Upper Limit:
Surrogates:			
4-Bromofluorobenzene	114	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	66	38	1,2-Dichloropropane	<3.7	<0.8
Dichlorodifluoromethane	<7.9	<1.6	1,4-Dioxane	<5.8	<1.6
Chloromethane	<59	<29	2,2,4-Trimethylpentane	<75	<16
F-114	<11	<1.6	Methyl methacrylate	<66	<16
Vinyl chloride	<4.1	<1.6	Heptane	<66	<16
1,3-Butadiene	<0.71	<0.32	Bromodichloromethane	<1.1	<0.16
Butane	<76	<32	Trichloroethene	120	23
Bromomethane	<37	<9.6	cis-1,3-Dichloropropene	<7.3	<1.6
Chloroethane	<42	<16	4-Methyl-2-pentanone	<66	<16
Vinyl bromide	<7	<1.6	trans-1,3-Dichloropropene	<7.3	<1.6
Ethanol	170	90	Toluene	<300	<80
Acrolein	19	8.3	1,1,2-Trichloroethane	<0.87	<0.16
Pentane	<47	<16	2-Hexanone	<66	<16
Trichlorofluoromethane	<36	<6.4	Tetrachloroethene	830	120
Acetone	4,400 ve	1,800 ve	Dibromochloromethane	<1.4	<0.16
2-Propanol	<140	<56	1,2-Dibromoethane (EDB)	<1.2	<0.16
1,1-Dichloroethene	<6.3	<1.6	Chlorobenzene	<7.4	<1.6
trans-1,2-Dichloroethene	<6.3	<1.6	Ethylbenzene	12	2.8
Methylene chloride	<560	<160	1,1,2,2-Tetrachloroethane	<2.2	<0.32
t-Butyl alcohol (TBA)	<190	<64	Nonane	<84	<16
3-Chloropropene	<25	<8	Isopropylbenzene	<39	<8
CFC-113	<12	<1.6	2-Chlorotoluene	<83	<16
Carbon disulfide	<100	<32	Propylbenzene	<39	<8
Methyl t-butyl ether (MTBE)	<29	<8	4-Ethyltoluene	<39	<8
Vinyl acetate	<110	<32	m,p-Xylene	33	7.7
1,1-Dichloroethane	<6.5	<1.6	o-Xylene	11	2.6
cis-1,2-Dichloroethene	75	19	Styrene	<14	<3.2
Hexane	<56	<16	Bromoform	<33	<3.2
Chloroform	7.8	1.6	Benzyl chloride	<0.83	<0.16
Ethyl acetate	<120	<32	1,3,5-Trimethylbenzene	<39	<8
Tetrahydrofuran	20	6.9	1,2,4-Trimethylbenzene	<39	<8
2-Butanone (MEK)	610 ve	210 ve	1,3-Dichlorobenzene	<9.6	<1.6
1,2-Dichloroethane (EDC)	3.4	0.85	1,4-Dichlorobenzene	<3.7	<0.61
1,1,1-Trichloroethane	<8.7	<1.6	1,2-Dichlorobenzene	<9.6	<1.6
Carbon tetrachloride	<5	<0.8	1,2,4-Trichlorobenzene	<12	<1.6
Benzene	32	10	Naphthalene	85	16
Cyclohexane	<110	<32	Hexachlorobutadiene	<3.4	<0.32

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-EFF-3-120221	Client:	Aspect Consulting, LLC
Date Received:	12/03/21	Project:	Spic n Span 060172
Date Collected:	12/02/21	Lab ID:	112057-02 1/8.5
Date Analyzed:	12/08/21	Data File:	120727.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	85	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	46	27	1,2-Dichloropropane	<2	<0.42
Dichlorodifluoromethane	<4.2	<0.85	1,4-Dioxane	<3.1	<0.85
Chloromethane	<32	<15	2,2,4-Trimethylpentane	<40	<8.5
F-114	<5.9	<0.85	Methyl methacrylate	<35	<8.5
Vinyl chloride	<2.2	<0.85	Heptane	<35	<8.5
1,3-Butadiene	<0.38	<0.17	Bromodichloromethane	<0.57	<0.085
Butane	92	39	Trichloroethene	<0.91	<0.17
Bromomethane	<20	<5.1	cis-1,3-Dichloropropene	<3.9	<0.85
Chloroethane	<22	<8.5	4-Methyl-2-pentanone	<35	<8.5
Vinyl bromide	<3.7	<0.85	trans-1,3-Dichloropropene	<3.9	<0.85
Ethanol	120	61	Toluene	<160	<42
Acrolein	<0.97	<0.42	1,1,2-Trichloroethane	<0.46	<0.085
Pentane	<25	<8.5	2-Hexanone	<35	<8.5
Trichlorofluoromethane	<19	<3.4	Tetrachloroethene	<58	<8.5
Acetone	2,300 ve	980 ve	Dibromochloromethane	<0.72	<0.085
2-Propanol	<73	<30	1,2-Dibromoethane (EDB)	<0.65	<0.085
1,1-Dichloroethene	<3.4	<0.85	Chlorobenzene	<3.9	<0.85
trans-1,2-Dichloroethene	<3.4	<0.85	Ethylbenzene	<3.7	<0.85
Methylene chloride	<300	<85	1,1,2,2-Tetrachloroethane	<1.2	<0.17
t-Butyl alcohol (TBA)	<100	<34	Nonane	<45	<8.5
3-Chloropropene	<13	<4.2	Isopropylbenzene	<21	<4.2
CFC-113	<6.5	<0.85	2-Chlorotoluene	<44	<8.5
Carbon disulfide	85	27	Propylbenzene	<21	<4.2
Methyl t-butyl ether (MTBE)	<15	<4.2	4-Ethyltoluene	<21	<4.2
Vinyl acetate	<60	<17	m,p-Xylene	12	2.7
1,1-Dichloroethane	<3.4	<0.85	o-Xylene	3.9	0.89
cis-1,2-Dichloroethene	<3.4	<0.85	Styrene	<7.2	<1.7
Hexane	<30	<8.5	Bromoform	<18	<1.7
Chloroform	<0.42	<0.085	Benzyl chloride	<0.44	<0.085
Ethyl acetate	<61	<17	1,3,5-Trimethylbenzene	<21	<4.2
Tetrahydrofuran	21	7.0	1,2,4-Trimethylbenzene	<21	<4.2
2-Butanone (MEK)	<25	<8.5	1,3-Dichlorobenzene	<5.1	<0.85
1,2-Dichloroethane (EDC)	<0.34	<0.085	1,4-Dichlorobenzene	<1.9	<0.32
1,1,1-Trichloroethane	<4.6	<0.85	1,2-Dichlorobenzene	<5.1	<0.85
Carbon tetrachloride	<2.7	<0.42	1,2,4-Trichlorobenzene	<6.3	<0.85
Benzene	<2.7	<0.85	Naphthalene	<2.2	<0.42
Cyclohexane	<59	<17	Hexachlorobutadiene	<1.8	<0.17

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic n Span 060172
Date Collected:	Not Applicable	Lab ID:	01-2772 MB
Date Analyzed:	12/07/21	Data File:	120711.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	82	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.49	<0.1	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<0.7	<0.1	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<2.3	<0.6	cis-1,3-Dichloropropene	<0.45	<0.1
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<4.1	<1
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<19	<5
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<3	<1	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<1.6	<0.5	Isopropylbenzene	<2.5	<0.5
CFC-113	<0.77	<0.1	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<2.5	<0.5
Methyl t-butyl ether (MTBE)	<1.8	<0.5	4-Ethyltoluene	<2.5	<0.5
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<2.5	<0.5
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<2.5	<0.5
2-Butanone (MEK)	<2.9	<1	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/14/21

Date Received: 12/03/21

Project: Spic n Span 060172, F&BI 112057

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 112057-02 1/8.5 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	<640	<640	nm
APH EC9-12 aliphatics	ug/m3	<210	<210	nm
APH EC9-10 aromatics	ug/m3	<210	<210	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	87	70-130
APH EC9-12 aliphatics	ug/m3	67	97	70-130
APH EC9-10 aromatics	ug/m3	67	86	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/14/21

Date Received: 12/03/21

Project: Spic n Span 060172, F&BI 112057

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 112057-02 1/8.5 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	46	47	2
Dichlorodifluoromethane	ug/m3	<4.2	<4.2	nm
Chloromethane	ug/m3	<32	<32	nm
F-114	ug/m3	<5.9	<5.9	nm
Vinyl chloride	ug/m3	<2.2	<2.2	nm
1,3-Butadiene	ug/m3	<0.38	<0.38	nm
Butane	ug/m3	92	87	6
Bromomethane	ug/m3	<20	<20	nm
Chloroethane	ug/m3	<22	<22	nm
Vinyl bromide	ug/m3	<3.7	<3.7	nm
Ethanol	ug/m3	120	130	8
Acrolein	ug/m3	<0.97	<0.97	nm
Pentane	ug/m3	<25	<25	nm
Trichlorofluoromethane	ug/m3	<19	<19	nm
Acetone	ug/m3	2,300	2,200	4
2-Propanol	ug/m3	<73	<73	nm
1,1-Dichloroethene	ug/m3	<3.4	<3.4	nm
trans-1,2-Dichloroethene	ug/m3	<3.4	<3.4	nm
Methylene chloride	ug/m3	<300	<300	nm
t-Butyl alcohol (TBA)	ug/m3	<100	<100	nm
3-Chloropropene	ug/m3	<13	<13	nm
CFC-113	ug/m3	<6.5	<6.5	nm
Carbon disulfide	ug/m3	85	83	2
Methyl t-butyl ether (MTBE)	ug/m3	<15	<15	nm
Vinyl acetate	ug/m3	<60	<60	nm
1,1-Dichloroethane	ug/m3	<3.4	<3.4	nm
cis-1,2-Dichloroethene	ug/m3	<3.4	<3.4	nm
Hexane	ug/m3	<30	<30	nm
Chloroform	ug/m3	<0.42	<0.42	nm
Ethyl acetate	ug/m3	<61	<61	nm
Tetrahydrofuran	ug/m3	21	21	0
2-Butanone (MEK)	ug/m3	<25	<25	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.34	<0.34	nm
1,1,1-Trichloroethane	ug/m3	<4.6	<4.6	nm
Carbon tetrachloride	ug/m3	<2.7	<2.7	nm
Benzene	ug/m3	<2.7	<2.7	nm
Cyclohexane	ug/m3	<59	<59	nm
1,2-Dichloropropane	ug/m3	<2	<2	nm
1,4-Dioxane	ug/m3	<3.1	<3.1	nm
2,2,4-Trimethylpentane	ug/m3	<40	<40	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/14/21

Date Received: 12/03/21

Project: Spic n Span 060172, F&BI 112057

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 112057-02 1/8.5 (Duplicate) (continued)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Methyl methacrylate	ug/m3	<35	<35	nm
Heptane	ug/m3	<35	<35	nm
Bromodichloromethane	ug/m3	<0.57	<0.57	nm
Trichloroethene	ug/m3	<0.91	<0.91	nm
cis-1,3-Dichloropropene	ug/m3	<3.9	<3.9	nm
4-Methyl-2-pentanone	ug/m3	<35	<35	nm
trans-1,3-Dichloropropene	ug/m3	<3.9	<3.9	nm
Toluene	ug/m3	<160	<160	nm
1,1,2-Trichloroethane	ug/m3	<0.46	<0.46	nm
2-Hexanone	ug/m3	<35	<35	nm
Tetrachloroethene	ug/m3	<58	<58	nm
Dibromochloromethane	ug/m3	<0.72	<0.72	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.65	<0.65	nm
Chlorobenzene	ug/m3	<3.9	<3.9	nm
Ethylbenzene	ug/m3	<3.7	<3.7	nm
1,1,2,2-Tetrachloroethane	ug/m3	<1.2	<1.2	nm
Nonane	ug/m3	<45	<45	nm
Isopropylbenzene	ug/m3	<21	<21	nm
2-Chlorotoluene	ug/m3	<44	<44	nm
Propylbenzene	ug/m3	<21	<21	nm
4-Ethyltoluene	ug/m3	<21	<21	nm
m,p-Xylene	ug/m3	12	11	9
o-Xylene	ug/m3	3.9	3.8	3
Styrene	ug/m3	<7.2	<7.2	nm
Bromoform	ug/m3	<18	<18	nm
Benzyl chloride	ug/m3	<0.44	<0.44	nm
1,3,5-Trimethylbenzene	ug/m3	<21	<21	nm
1,2,4-Trimethylbenzene	ug/m3	<21	<21	nm
1,3-Dichlorobenzene	ug/m3	<5.1	<5.1	nm
1,4-Dichlorobenzene	ug/m3	<1.9	<1.9	nm
1,2-Dichlorobenzene	ug/m3	<5.1	<5.1	nm
1,2,4-Trichlorobenzene	ug/m3	<6.3	<6.3	nm
Naphthalene	ug/m3	<2.2	<2.2	nm
Hexachlorobutadiene	ug/m3	<1.8	<1.8	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/14/21

Date Received: 12/03/21

Project: Spic n Span 060172, F&BI 112057

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Propene	ug/m3	23	78	70-130
Dichlorodifluoromethane	ug/m3	67	97	70-130
Chloromethane	ug/m3	28	97	70-130
F-114	ug/m3	94	99	70-130
Vinyl chloride	ug/m3	35	91	70-130
1,3-Butadiene	ug/m3	30	85	70-130
Butane	ug/m3	32	87	70-130
Bromomethane	ug/m3	52	94	70-130
Chloroethane	ug/m3	36	95	70-130
Vinyl bromide	ug/m3	59	96	70-130
Ethanol	ug/m3	25	71	70-130
Acrolein	ug/m3	31	83	70-130
Pentane	ug/m3	40	78	70-130
Trichlorofluoromethane	ug/m3	76	103	70-130
Acetone	ug/m3	32	94	70-130
2-Propanol	ug/m3	33	86	70-130
1,1-Dichloroethene	ug/m3	54	97	70-130
trans-1,2-Dichloroethene	ug/m3	54	95	70-130
Methylene chloride	ug/m3	94	94	70-130
t-Butyl alcohol (TBA)	ug/m3	41	90	70-130
3-Chloropropene	ug/m3	42	82	70-130
CFC-113	ug/m3	100	102	70-130
Carbon disulfide	ug/m3	42	86	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	85	70-130
Vinyl acetate	ug/m3	48	78	70-130
1,1-Dichloroethane	ug/m3	55	94	70-130
cis-1,2-Dichloroethene	ug/m3	54	96	70-130
Hexane	ug/m3	48	83	70-130
Chloroform	ug/m3	66	99	70-130
Ethyl acetate	ug/m3	49	88	70-130
Tetrahydrofuran	ug/m3	40	83	70-130
2-Butanone (MEK)	ug/m3	40	97	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	93	70-130
1,1,1-Trichloroethane	ug/m3	74	99	70-130
Carbon tetrachloride	ug/m3	85	102	70-130
Benzene	ug/m3	43	92	70-130
Cyclohexane	ug/m3	46	76	70-130
1,2-Dichloropropane	ug/m3	62	94	70-130
1,4-Dioxane	ug/m3	49	97	70-130
2,2,4-Trimethylpentane	ug/m3	63	93	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/14/21

Date Received: 12/03/21

Project: Spic n Span 060172, F&BI 112057

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (continued)

Analyte	Reporting Units	Spike Level	Percent	Acceptance Criteria
			Recovery LCS	
Methyl methacrylate	ug/m3	55	93	70-130
Heptane	ug/m3	55	87	70-130
Bromodichloromethane	ug/m3	90	101	70-130
Trichloroethene	ug/m3	73	97	70-130
cis-1,3-Dichloropropene	ug/m3	61	98	70-130
4-Methyl-2-pentanone	ug/m3	55	96	70-130
trans-1,3-Dichloropropene	ug/m3	61	102	70-130
Toluene	ug/m3	51	103	70-130
1,1,2-Trichloroethane	ug/m3	74	102	70-130
2-Hexanone	ug/m3	55	88	70-130
Tetrachloroethene	ug/m3	92	111	70-130
Dibromochloromethane	ug/m3	120	113	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	100	70-130
Chlorobenzene	ug/m3	62	107	70-130
Ethylbenzene	ug/m3	59	93	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	99	70-130
Nonane	ug/m3	71	77	70-130
Isopropylbenzene	ug/m3	66	97	70-130
2-Chlorotoluene	ug/m3	70	100	70-130
Propylbenzene	ug/m3	66	92	70-130
4-Ethyltoluene	ug/m3	66	94	70-130
m,p-Xylene	ug/m3	120	97	70-130
o-Xylene	ug/m3	59	100	70-130
Styrene	ug/m3	58	95	70-130
Bromoform	ug/m3	140	109	70-130
Benzyl chloride	ug/m3	70	103	70-130
1,3,5-Trimethylbenzene	ug/m3	66	92	70-130
1,2,4-Trimethylbenzene	ug/m3	66	88	70-130
1,3-Dichlorobenzene	ug/m3	81	109	70-130
1,4-Dichlorobenzene	ug/m3	81	96	70-130
1,2-Dichlorobenzene	ug/m3	81	103	70-130
1,2,4-Trichlorobenzene	ug/m3	100	85	70-130
Naphthalene	ug/m3	71	82	70-130
Hexachlorobutadiene	ug/m3	140	101	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

112057

SAMPLE CHAIN OF CUSTODY

12-03-21

Report To ASPECT CONSULTING

Company SEYMOUR PORTER

Address 710 2nd Ave Suite 550

City, State, ZIP SEATTLE, WA 98104

Phone 206.790.2129 Email spatter@aspectconsulting.com

SAMPLERS (Signature) <u>Monique Rutte</u>	
PROJECT NAME & ADDRESS <u>SPIC N Span</u>	PO # <u>060172</u>
NOTES:	INVOICE TO

Page # 1 of 1

TURNAROUND TIME

Standard
 RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL
 Default: Clean after 3 days
 Archive (Fee may apply)

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. (Hg)	Field Initial Time	Final Vac. (Hg)	Field Final Time	ANALYSIS REQUESTED			Notes
										TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	
NAAC-INF-3-120221	01	3344	259	IA / SG	12/2/21	30	0957	5	1002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
NAAC-EFF-3-120221	02	3540	304	IA / SG	↓	30	1004	5	1009	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	↓
				IA / SG									
				IA / SG									
				IA / SG									
				IA / SG									
				IA / SG									
				IA / SG									

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Reinquired by: <u>Monique Rutte</u>		<u>Monique Rutte</u>		<u>ASPECT</u>		<u>12/2/21</u>	<u>1315</u>
Received by: <u>Carly</u>		<u>Ann Wengya</u>		<u>FMS</u>		<u>12/3/21</u>	<u>1315</u>
Reinquished by:							
Received by:				<u>Samples received at</u>	<u>21</u>		<u>00</u>

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

January 4, 2022

Jeremy Porter, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Porter:

Included are the results from the testing of material submitted on December 15, 2021 from the Spic n' Span 060172, F&BI 112287 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Aspect Data
ASP0104R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 15, 2021 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Spic n' Span 060172, F&BI 112287 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
112287 -01	VGAC-INF-3-121521
112287 -02	VAGC-EFF-3-121521

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

The concentration of several analytes exceeded the calibration range of the instrument. The data were flagged accordingly.

The TO-15 calibration standard failed the acceptance criteria for ethanol. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-INF-3-121521	Client:	Aspect Consulting, LLC
Date Received:	12/15/21	Project:	Spic n' Span 060172, F&BI 112287
Date Collected:	12/15/21	Lab ID:	112287-01 1/18
Date Analyzed:	12/28/21	Data File:	122817.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	VM

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	107	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	1,700
APH EC9-12 aliphatics	9,200
APH EC9-10 aromatics	<450

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VAGC-EFF-3-121521	Client:	Aspect Consulting, LLC
Date Received:	12/15/21	Project:	Spic n' Span 060172, F&BI 112287
Date Collected:	12/15/21	Lab ID:	112287-02 1/18
Date Analyzed:	12/28/21	Data File:	122819.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	VM

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	90	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	<1,300
APH EC9-12 aliphatics	450
APH EC9-10 aromatics	<450

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic n' Span 060172, F&BI 112287
Date Collected:	Not Applicable	Lab ID:	01-2855 MB
Date Analyzed:	12/28/21	Data File:	122810.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	VM

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-INF-3-121521	Client:	Aspect Consulting, LLC
Date Received:	12/15/21	Project:	Spic n' Span 060172, F&BI 112287
Date Collected:	12/15/21	Lab ID:	112287-01 1/18
Date Analyzed:	12/28/21	Data File:	122817.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	VM

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	109	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	69	40	1,2-Dichloropropane	<4.2	<0.9
Dichlorodifluoromethane	<8.9	<1.8	1,4-Dioxane	<6.5	<1.8
Chloromethane	<67	<32	2,2,4-Trimethylpentane	<84	<18
F-114	<13	<1.8	Methyl methacrylate	<74	<18
Vinyl chloride	<4.6	<1.8	Heptane	<74	<18
1,3-Butadiene	<0.8	<0.36	Bromodichloromethane	<1.2	<0.18
Butane	<86	<36	Trichloroethene	76	14
Bromomethane	<42	<11	cis-1,3-Dichloropropene	<8.2	<1.8
Chloroethane	<47	<18	4-Methyl-2-pentanone	<74	<18
Vinyl bromide	<7.9	<1.8	trans-1,3-Dichloropropene	<8.2	<1.8
Ethanol	370 ca ve	200 ca ve	Toluene	<340	<90
Acrolein	20	8.6	1,1,2-Trichloroethane	<0.98	<0.18
Pentane	<53	<18	2-Hexanone	<74	<18
Trichlorofluoromethane	<40	<7.2	Tetrachloroethene	350	51
Acetone	3,100 ve	1,300 ve	Dibromochloromethane	<1.5	<0.18
2-Propanol	<150	<63	1,2-Dibromoethane (EDB)	<1.4	<0.18
1,1-Dichloroethene	<7.1	<1.8	Chlorobenzene	<8.3	<1.8
trans-1,2-Dichloroethene	<7.1	<1.8	Ethylbenzene	7.8	1.8
Methylene chloride	<630	<180	1,1,2,2-Tetrachloroethane	<2.5	<0.36
t-Butyl alcohol (TBA)	<220	<72	Nonane	<94	<18
3-Chloropropene	<28	<9	Isopropylbenzene	<44	<9
CFC-113	<14	<1.8	2-Chlorotoluene	<93	<18
Carbon disulfide	<110	<36	Propylbenzene	<44	<9
Methyl t-butyl ether (MTBE)	<32	<9	4-Ethyltoluene	<44	<9
Vinyl acetate	560	160	m,p-Xylene	21	4.8
1,1-Dichloroethane	<7.3	<1.8	o-Xylene	9.9	2.3
cis-1,2-Dichloroethene	51	13	Styrene	<15	<3.6
Hexane	<63	<18	Bromoform	<37	<3.6
Chloroform	8.7	1.8	Benzyl chloride	<0.93	<0.18
Ethyl acetate	<130	<36	1,3,5-Trimethylbenzene	<44	<9
Tetrahydrofuran	12	4.2	1,2,4-Trimethylbenzene	<44	<9
2-Butanone (MEK)	510	170	1,3-Dichlorobenzene	<11	<1.8
1,2-Dichloroethane (EDC)	3.2	0.79	1,4-Dichlorobenzene	<4.1	<0.68
1,1,1-Trichloroethane	<9.8	<1.8	1,2-Dichlorobenzene	<11	<1.8
Carbon tetrachloride	<5.7	<0.9	1,2,4-Trichlorobenzene	<13	<1.8
Benzene	29	9.1	Naphthalene	62	12
Cyclohexane	<120	<36	Hexachlorobutadiene	<3.8	<0.36

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VAGC-EFF-3-121521	Client:	Aspect Consulting, LLC
Date Received:	12/15/21	Project:	Spic n' Span 060172, F&BI 112287
Date Collected:	12/15/21	Lab ID:	112287-02 1/18
Date Analyzed:	12/28/21	Data File:	122819.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	VM

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	92	53	1,2-Dichloropropane	<4.2	<0.9
Dichlorodifluoromethane	<8.9	<1.8	1,4-Dioxane	<6.5	<1.8
Chloromethane	<67	<32	2,2,4-Trimethylpentane	<84	<18
F-114	<13	<1.8	Methyl methacrylate	<74	<18
Vinyl chloride	<4.6	<1.8	Heptane	<74	<18
1,3-Butadiene	<0.8	<0.36	Bromodichloromethane	<1.2	<0.18
Butane	<86	<36	Trichloroethene	<1.9	<0.36
Bromomethane	<42	<11	cis-1,3-Dichloropropene	<8.2	<1.8
Chloroethane	<47	<18	4-Methyl-2-pentanone	<74	<18
Vinyl bromide	<7.9	<1.8	trans-1,3-Dichloropropene	<8.2	<1.8
Ethanol	390 ca ve	210 ca ve	Toluene	<340	<90
Acrolein	<2.1	<0.9	1,1,2-Trichloroethane	<0.98	<0.18
Pentane	<53	<18	2-Hexanone	<74	<18
Trichlorofluoromethane	<40	<7.2	Tetrachloroethene	<120	<18
Acetone	2,900 ve	1,200 ve	Dibromochloromethane	<1.5	<0.18
2-Propanol	<150	<63	1,2-Dibromoethane (EDB)	<1.4	<0.18
1,1-Dichloroethene	<7.1	<1.8	Chlorobenzene	<8.3	<1.8
trans-1,2-Dichloroethene	<7.1	<1.8	Ethylbenzene	<7.8	<1.8
Methylene chloride	<630	<180	1,1,2,2-Tetrachloroethane	<2.5	<0.36
t-Butyl alcohol (TBA)	<220	<72	Nonane	<94	<18
3-Chloropropene	<28	<9	Isopropylbenzene	<44	<9
CFC-113	<14	<1.8	2-Chlorotoluene	<93	<18
Carbon disulfide	<110	<36	Propylbenzene	<44	<9
Methyl t-butyl ether (MTBE)	<32	<9	4-Ethyltoluene	<44	<9
Vinyl acetate	<130	<36	m,p-Xylene	<16	<3.6
1,1-Dichloroethane	<7.3	<1.8	o-Xylene	<7.8	<1.8
cis-1,2-Dichloroethene	<7.1	<1.8	Styrene	<15	<3.6
Hexane	<63	<18	Bromoform	<37	<3.6
Chloroform	<0.88	<0.18	Benzyl chloride	<0.93	<0.18
Ethyl acetate	<130	<36	1,3,5-Trimethylbenzene	<44	<9
Tetrahydrofuran	<11	<3.6	1,2,4-Trimethylbenzene	<44	<9
2-Butanone (MEK)	<53	<18	1,3-Dichlorobenzene	<11	<1.8
1,2-Dichloroethane (EDC)	<0.73	<0.18	1,4-Dichlorobenzene	<4.1	<0.68
1,1,1-Trichloroethane	<9.8	<1.8	1,2-Dichlorobenzene	<11	<1.8
Carbon tetrachloride	<5.7	<0.9	1,2,4-Trichlorobenzene	<13	<1.8
Benzene	<5.8	<1.8	Naphthalene	18	3.5
Cyclohexane	<120	<36	Hexachlorobutadiene	<3.8	<0.36

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic n' Span 060172, F&BI 112287
Date Collected:	Not Applicable	Lab ID:	01-2855 MB
Date Analyzed:	12/28/21	Data File:	122810.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	VM

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.49	<0.1	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<0.7	<0.1	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<2.3	<0.6	cis-1,3-Dichloropropene	<0.45	<0.1
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<4.1	<1
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<19	<5
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<3	<1	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<1.6	<0.5	Isopropylbenzene	<2.5	<0.5
CFC-113	<0.77	<0.1	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<2.5	<0.5
Methyl t-butyl ether (MTBE)	<1.8	<0.5	4-Ethyltoluene	<2.5	<0.5
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<2.5	<0.5
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<2.5	<0.5
2-Butanone (MEK)	<2.9	<1	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/04/22

Date Received: 12/15/21

Project: Spic n' Span 060172, F&BI 112287

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 112287-01 1/18 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	1,700	2,600	42 vo
APH EC9-12 aliphatics	ug/m3	9,200	9,200	0
APH EC9-10 aromatics	ug/m3	<450	<450	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	87	70-130
APH EC9-12 aliphatics	ug/m3	67	119	70-130
APH EC9-10 aromatics	ug/m3	67	119	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/04/22

Date Received: 12/15/21

Project: Spic n' Span 060172, F&BI 112287

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 112287-01 1/18 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	69	55	23
Dichlorodifluoromethane	ug/m3	<8.9	<8.9	nm
Chloromethane	ug/m3	<67	<67	nm
F-114	ug/m3	<13	<13	nm
Vinyl chloride	ug/m3	<4.6	<4.6	nm
1,3-Butadiene	ug/m3	<0.8	<0.8	nm
Butane	ug/m3	<86	<86	nm
Bromomethane	ug/m3	<42	<42	nm
Chloroethane	ug/m3	<47	<47	nm
Vinyl bromide	ug/m3	<7.9	<7.9	nm
Ethanol	ug/m3	370	350	6
Acrolein	ug/m3	20	19	5
Pentane	ug/m3	<53	<53	nm
Trichlorofluoromethane	ug/m3	<40	<40	nm
Acetone	ug/m3	1,300	1,200	8
2-Propanol	ug/m3	<150	<150	nm
1,1-Dichloroethene	ug/m3	<7.1	<7.1	nm
trans-1,2-Dichloroethene	ug/m3	<7.1	<7.1	nm
Methylene chloride	ug/m3	<630	<630	nm
t-Butyl alcohol (TBA)	ug/m3	<220	<220	nm
3-Chloropropene	ug/m3	<28	<28	nm
CFC-113	ug/m3	<14	<14	nm
Carbon disulfide	ug/m3	<110	<110	nm
Methyl t-butyl ether (MTBE)	ug/m3	<32	<32	nm
Vinyl acetate	ug/m3	560	550	2
1,1-Dichloroethane	ug/m3	<7.3	<7.3	nm
cis-1,2-Dichloroethene	ug/m3	51	50	2
Hexane	ug/m3	<63	<63	nm
Chloroform	ug/m3	8.7	8.3	5
Ethyl acetate	ug/m3	<130	<130	nm
Tetrahydrofuran	ug/m3	12	11	9
2-Butanone (MEK)	ug/m3	510	440	15
1,2-Dichloroethane (EDC)	ug/m3	3.2	3.4	6
1,1,1-Trichloroethane	ug/m3	<9.8	<9.8	nm
Carbon tetrachloride	ug/m3	<5.7	<5.7	nm
Benzene	ug/m3	29	28	4
Cyclohexane	ug/m3	<120	<120	nm
1,2-Dichloropropane	ug/m3	<4.2	<4.2	nm
1,4-Dioxane	ug/m3	<6.5	<6.5	nm
2,2,4-Trimethylpentane	ug/m3	<84	<84	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/04/22

Date Received: 12/15/21

Project: Spic n' Span 060172, F&BI 112287

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 112287-01 1/18 (Duplicate) (continued)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Methyl methacrylate	ug/m3	<74	<74	nm
Heptane	ug/m3	<74	<74	nm
Bromodichloromethane	ug/m3	<1.2	<1.2	nm
Trichloroethene	ug/m3	76	68	11
cis-1,3-Dichloropropene	ug/m3	<8.2	<8.2	nm
4-Methyl-2-pentanone	ug/m3	<74	<74	nm
trans-1,3-Dichloropropene	ug/m3	<8.2	<8.2	nm
Toluene	ug/m3	<340	<340	nm
1,1,2-Trichloroethane	ug/m3	<0.98	<0.98	nm
2-Hexanone	ug/m3	<74	<74	nm
Tetrachloroethene	ug/m3	350	310	12
Dibromochloromethane	ug/m3	<1.5	<1.5	nm
1,2-Dibromoethane (EDB)	ug/m3	<1.4	<1.4	nm
Chlorobenzene	ug/m3	<8.3	<8.3	nm
Ethylbenzene	ug/m3	7.8	7.8	0
1,1,2,2-Tetrachloroethane	ug/m3	<2.5	<2.5	nm
Nonane	ug/m3	<94	<94	nm
Isopropylbenzene	ug/m3	<44	<44	nm
2-Chlorotoluene	ug/m3	<93	<93	nm
Propylbenzene	ug/m3	<44	<44	nm
4-Ethyltoluene	ug/m3	<44	<44	nm
m,p-Xylene	ug/m3	21	21	0
o-Xylene	ug/m3	9.9	9.8	1
Styrene	ug/m3	<15	<15	nm
Bromoform	ug/m3	<37	<37	nm
Benzyl chloride	ug/m3	<0.93	<0.93	nm
1,3,5-Trimethylbenzene	ug/m3	<44	<44	nm
1,2,4-Trimethylbenzene	ug/m3	<44	<44	nm
1,3-Dichlorobenzene	ug/m3	<11	<11	nm
1,4-Dichlorobenzene	ug/m3	<4.1	<4.1	nm
1,2-Dichlorobenzene	ug/m3	<11	<11	nm
1,2,4-Trichlorobenzene	ug/m3	<13	<13	nm
Naphthalene	ug/m3	62	64	3
Hexachlorobutadiene	ug/m3	<3.8	<3.8	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/04/22

Date Received: 12/15/21

Project: Spic n' Span 060172, F&BI 112287

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance Criteria
			Recovery LCS	
Propene	ug/m3	23	113	70-130
Dichlorodifluoromethane	ug/m3	67	93	70-130
Chloromethane	ug/m3	28	103	70-130
F-114	ug/m3	94	99	70-130
Vinyl chloride	ug/m3	35	103	70-130
1,3-Butadiene	ug/m3	30	102	70-130
Butane	ug/m3	32	99	70-130
Bromomethane	ug/m3	52	101	70-130
Chloroethane	ug/m3	36	93	70-130
Vinyl bromide	ug/m3	59	96	70-130
Ethanol	ug/m3	25	161 vo	70-130
Acrolein	ug/m3	31	97	70-130
Pentane	ug/m3	40	106	70-130
Trichlorofluoromethane	ug/m3	76	103	70-130
Acetone	ug/m3	32	109	70-130
2-Propanol	ug/m3	33	104	70-130
1,1-Dichloroethene	ug/m3	54	95	70-130
trans-1,2-Dichloroethene	ug/m3	54	99	70-130
Methylene chloride	ug/m3	94	145 vo	70-130
t-Butyl alcohol (TBA)	ug/m3	41	103	70-130
3-Chloropropene	ug/m3	42	98	70-130
CFC-113	ug/m3	100	97	70-130
Carbon disulfide	ug/m3	42	89	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	94	70-130
Vinyl acetate	ug/m3	48	81	70-130
1,1-Dichloroethane	ug/m3	55	99	70-130
cis-1,2-Dichloroethene	ug/m3	54	99	70-130
Hexane	ug/m3	48	91	70-130
Chloroform	ug/m3	66	99	70-130
Ethyl acetate	ug/m3	49	97	70-130
Tetrahydrofuran	ug/m3	40	94	70-130
2-Butanone (MEK)	ug/m3	40	101	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	101	70-130
1,1,1-Trichloroethane	ug/m3	74	99	70-130
Carbon tetrachloride	ug/m3	85	98	70-130
Benzene	ug/m3	43	97	70-130
Cyclohexane	ug/m3	46	95	70-130
1,2-Dichloropropane	ug/m3	62	86	70-130
1,4-Dioxane	ug/m3	49	92	70-130
2,2,4-Trimethylpentane	ug/m3	63	88	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/04/22

Date Received: 12/15/21

Project: Spic n' Span 060172, F&BI 112287

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (continued)

Analyte	Reporting Units	Spike Level	Percent	Acceptance Criteria
			Recovery LCS	
Methyl methacrylate	ug/m3	55	87	70-130
Heptane	ug/m3	55	89	70-130
Bromodichloromethane	ug/m3	90	89	70-130
Trichloroethene	ug/m3	73	87	70-130
cis-1,3-Dichloropropene	ug/m3	61	89	70-130
4-Methyl-2-pentanone	ug/m3	55	97	70-130
trans-1,3-Dichloropropene	ug/m3	61	87	70-130
Toluene	ug/m3	51	87	70-130
1,1,2-Trichloroethane	ug/m3	74	84	70-130
2-Hexanone	ug/m3	55	87	70-130
Tetrachloroethene	ug/m3	92	92	70-130
Dibromochloromethane	ug/m3	120	91	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	86	70-130
Chlorobenzene	ug/m3	62	98	70-130
Ethylbenzene	ug/m3	59	94	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	92	70-130
Nonane	ug/m3	71	93	70-130
Isopropylbenzene	ug/m3	66	95	70-130
2-Chlorotoluene	ug/m3	70	101	70-130
Propylbenzene	ug/m3	66	96	70-130
4-Ethyltoluene	ug/m3	66	95	70-130
m,p-Xylene	ug/m3	120	93	70-130
o-Xylene	ug/m3	59	99	70-130
Styrene	ug/m3	58	91	70-130
Bromoform	ug/m3	140	97	70-130
Benzyl chloride	ug/m3	70	98	70-130
1,3,5-Trimethylbenzene	ug/m3	66	95	70-130
1,2,4-Trimethylbenzene	ug/m3	66	96	70-130
1,3-Dichlorobenzene	ug/m3	81	98	70-130
1,4-Dichlorobenzene	ug/m3	81	92	70-130
1,2-Dichlorobenzene	ug/m3	81	94	70-130
1,2,4-Trichlorobenzene	ug/m3	100	74	70-130
Naphthalene	ug/m3	71	81	70-130
Hexachlorobutadiene	ug/m3	140	89	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

112207

PROPERTY OF CUSTOMER

ME 12/15/21

Report to Jeremy Porter

Company ASPECT CONSULTING

Address 710 2nd Ave Suite 550

City, State, ZIP SEATTLE, WA 98104

Phone _____ Email jporter@aspectconsulting.com

SAMPLERS (signature) Monique Rutter

PROJECT NAME & ADDRESS Spic n' Spin

PO # 060172

NOTES:

INVOICE TO

TURNAROUND TIME
 Standard
 RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
 Default: Clean after 3 days
 Archive (Fee may apply)

SAMPLE INFORMATION

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. (Hg)	Field Initial Time	Final Vac. (Hg)	Field Final Time	ANALYSIS REQUESTED				Notes	
V6AL-INF-3-121521	01	8532	02	IA / <u>SG</u>	12/15/21	29	0837	5	0845	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	APH	Helium	
V6AC-EFF-3-121521	02	8531	111	IA / <u>SG</u>	12/15/21	29	0847	5	0853	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	APH	Helium	
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											

Samples received at 17 °C

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COGN\COCTO-13.DOC

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: Monique Rutter

Relinquished by: Monique Rutter

Received by: J Porter

Received by: J Porter

ASPECT

12/16/21 1015

Relinquished by:

Relinquished by:

FBI

12/15/21 1015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

February 1, 2022

Jeremy Porter, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Porter:

Included are the results from the testing of material submitted on January 21, 2022 from the Spic n Span 060172, F&BI 201302 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Aspect Data
ASP0201R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 21, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Spic n Span 060172, F&BI 201302 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
201302 -01	VGAC-1-EFF-012022
201302 -02	VGAC-1-INF-012022

Individually certified canisters were provided for TO-15 sampling.

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

The concentration of several analytes exceeded the calibration range of the instrument. The data were flagged accordingly.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-EFF-012022	Client:	Aspect Consulting, LLC
Date Received:	01/21/22	Project:	060172, F&BI 201302
Date Collected:	01/20/22	Lab ID:	201302-01 1/5.8
Date Analyzed:	01/27/22	Data File:	012631.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	83	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	470
APH EC9-12 aliphatics	210
APH EC9-10 aromatics	<140

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-INF-012022	Client:	Aspect Consulting, LLC
Date Received:	01/21/22	Project:	060172, F&BI 201302
Date Collected:	01/20/22	Lab ID:	201302-02 1/17
Date Analyzed:	01/27/22	Data File:	012633.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	89	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	6,700
APH EC9-12 aliphatics	34,000 ve
APH EC9-10 aromatics	490

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	060172, F&BI 201302
Date Collected:	Not Applicable	Lab ID:	02-0214 MB
Date Analyzed:	01/26/22	Data File:	012612.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	83	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-EFF-012022	Client:	Aspect Consulting, LLC
Date Received:	01/21/22	Project:	060172, F&BI 201302
Date Collected:	01/20/22	Lab ID:	201302-01 1/5.8
Date Analyzed:	01/27/22	Data File:	012631.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	71	41	1,2-Dichloropropane	<1.3	<0.29
Dichlorodifluoromethane	<2.9	<0.58	1,4-Dioxane	<2.1	<0.58
Chloromethane	<22	<10	2,2,4-Trimethylpentane	<27	<5.8
F-114	<4.1	<0.58	Methyl methacrylate	<24	<5.8
Vinyl chloride	<1.5	<0.58	Heptane	<24	<5.8
1,3-Butadiene	<0.26	<0.12	Bromodichloromethane	<0.39	<0.058
Butane	<28	<12	Trichloroethene	<0.62	<0.12
Bromomethane	<14	<3.5	cis-1,3-Dichloropropene	<2.6	<0.58
Chloroethane	<15	<5.8	4-Methyl-2-pentanone	<24	<5.8
Vinyl bromide	<2.5	<0.58	trans-1,3-Dichloropropene	<2.6	<0.58
Ethanol	200 ve	110 ve	Toluene	<110	<29
Acrolein	<0.66	<0.29	1,1,2-Trichloroethane	<0.32	<0.058
Pentane	<17	<5.8	2-Hexanone	<24	<5.8
Trichlorofluoromethane	<13	<2.3	Tetrachloroethene	<39	<5.8
Acetone	810 ve	340 ve	Dibromochloromethane	<0.49	<0.058
2-Propanol	<50	<20	1,2-Dibromoethane (EDB)	<0.45	<0.058
1,1-Dichloroethene	<2.3	<0.58	Chlorobenzene	<2.7	<0.58
trans-1,2-Dichloroethene	<2.3	<0.58	Ethylbenzene	4.6	1.1
Methylene chloride	<200	<58	1,1,2,2-Tetrachloroethane	<0.8	<0.12
t-Butyl alcohol (TBA)	<70	<23	Nonane	<30	<5.8
3-Chloropropene	<9.1	<2.9	Isopropylbenzene	<14	<2.9
CFC-113	<4.4	<0.58	2-Chlorotoluene	<30	<5.8
Carbon disulfide	<36	<12	Propylbenzene	<14	<2.9
Methyl t-butyl ether (MTBE)	<10	<2.9	4-Ethyltoluene	<14	<2.9
Vinyl acetate	<41	<12	m,p-Xylene	17	3.8
1,1-Dichloroethane	<2.3	<0.58	o-Xylene	5.7	1.3
cis-1,2-Dichloroethene	<2.3	<0.58	Styrene	<4.9	<1.2
Hexane	<20	<5.8	Bromoform	<12	<1.2
Chloroform	<0.28	<0.058	Benzyl chloride	<0.3	<0.058
Ethyl acetate	<42	<12	1,3,5-Trimethylbenzene	<14	<2.9
Tetrahydrofuran	19	6.4	1,2,4-Trimethylbenzene	<14	<2.9
2-Butanone (MEK)	<17	<5.8	1,3-Dichlorobenzene	<3.5	<0.58
1,2-Dichloroethane (EDC)	<0.23	<0.058	1,4-Dichlorobenzene	<1.3	<0.22
1,1,1-Trichloroethane	<3.2	<0.58	1,2-Dichlorobenzene	<3.5	<0.58
Carbon tetrachloride	<1.8	<0.29	1,2,4-Trichlorobenzene	<4.3	<0.58
Benzene	<1.9	<0.58	Naphthalene	<1.5	<0.29
Cyclohexane	<40	<12	Hexachlorobutadiene	<1.2	<0.12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-INF-012022	Client:	Aspect Consulting, LLC
Date Received:	01/21/22	Project:	060172, F&BI 201302
Date Collected:	01/20/22	Lab ID:	201302-02 1/17
Date Analyzed:	01/27/22	Data File:	012633.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	% Recovery:	Lower Limit:	Upper Limit:
Surrogates:			
4-Bromofluorobenzene	99	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	67	39	1,2-Dichloropropane	<3.9	<0.85
Dichlorodifluoromethane	<8.4	<1.7	1,4-Dioxane	<6.1	<1.7
Chloromethane	<63	<31	2,2,4-Trimethylpentane	<79	<17
F-114	<12	<1.7	Methyl methacrylate	<70	<17
Vinyl chloride	<4.3	<1.7	Heptane	<70	<17
1,3-Butadiene	<0.75	<0.34	Bromodichloromethane	<1.1	<0.17
Butane	<81	<34	Trichloroethene	100	19
Bromomethane	<40	<10	cis-1,3-Dichloropropene	<7.7	<1.7
Chloroethane	<45	<17	4-Methyl-2-pentanone	<70	<17
Vinyl bromide	<7.4	<1.7	trans-1,3-Dichloropropene	<7.7	<1.7
Ethanol	280	150	Toluene	<320	<85
Acrolein	25	11	1,1,2-Trichloroethane	<0.93	<0.17
Pentane	<50	<17	2-Hexanone	<70	<17
Trichlorofluoromethane	<38	<6.8	Tetrachloroethene	850	120
Acetone	4,600 ve	1,900 ve	Dibromochloromethane	<1.4	<0.17
2-Propanol	<150	<59	1,2-Dibromoethane (EDB)	<1.3	<0.17
1,1-Dichloroethene	<6.7	<1.7	Chlorobenzene	<7.8	<1.7
trans-1,2-Dichloroethene	<6.7	<1.7	Ethylbenzene	23	5.2
Methylene chloride	<590	<170	1,1,2,2-Tetrachloroethane	<2.3	<0.34
t-Butyl alcohol (TBA)	<210	<68	Nonane	<89	<17
3-Chloropropene	<27	<8.5	Isopropylbenzene	<42	<8.5
CFC-113	<13	<1.7	2-Chlorotoluene	<88	<17
Carbon disulfide	<110	<34	Propylbenzene	<42	<8.5
Methyl t-butyl ether (MTBE)	<31	<8.5	4-Ethyltoluene	<42	<8.5
Vinyl acetate	<120	<34	m,p-Xylene	68	16
1,1-Dichloroethane	<6.9	<1.7	o-Xylene	27	6.1
cis-1,2-Dichloroethene	47	12	Styrene	<14	<3.4
Hexane	<60	<17	Bromoform	<35	<3.4
Chloroform	8.5	1.8	Benzyl chloride	<0.88	<0.17
Ethyl acetate	<120	<34	1,3,5-Trimethylbenzene	<42	<8.5
Tetrahydrofuran	33	11	1,2,4-Trimethylbenzene	46	9.3
2-Butanone (MEK)	760 ve	260 ve	1,3-Dichlorobenzene	<10	<1.7
1,2-Dichloroethane (EDC)	2.3	0.56	1,4-Dichlorobenzene	<3.9	<0.65
1,1,1-Trichloroethane	<9.3	<1.7	1,2-Dichlorobenzene	<10	<1.7
Carbon tetrachloride	<5.3	<0.85	1,2,4-Trichlorobenzene	<13	<1.7
Benzene	37	12	Naphthalene	270	52
Cyclohexane	<120	<34	Hexachlorobutadiene	<3.6	<0.34

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	060172, F&BI 201302
Date Collected:	Not Applicable	Lab ID:	02-0214 MB
Date Analyzed:	01/26/22	Data File:	012612.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.49	<0.1	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<0.7	<0.1	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<2.3	<0.6	cis-1,3-Dichloropropene	<0.45	<0.1
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<4.1	<1
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<19	<5
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<3	<1	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<1.6	<0.5	Isopropylbenzene	<2.5	<0.5
CFC-113	<0.77	<0.1	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<2.5	<0.5
Methyl t-butyl ether (MTBE)	<1.8	<0.5	4-Ethyltoluene	<2.5	<0.5
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<2.5	<0.5
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<2.5	<0.5
2-Butanone (MEK)	<2.9	<1	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/01/22

Date Received: 01/21/22

Project: Spic n Span 060172, F&BI 201302

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 201302-01 1/5.8 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	470	520	10
APH EC9-12 aliphatics	ug/m3	210	210	0
APH EC9-10 aromatics	ug/m3	<140	<140	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	77	70-130
APH EC9-12 aliphatics	ug/m3	67	95	70-130
APH EC9-10 aromatics	ug/m3	67	96	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/01/22

Date Received: 01/21/22

Project: Spic n Span 060172, F&BI 201302

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 201302-01 1/5.8 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	71	61	15
Dichlorodifluoromethane	ug/m3	<2.9	3.5	nm
Chloromethane	ug/m3	<22	<22	nm
F-114	ug/m3	<4.1	<4.1	nm
Vinyl chloride	ug/m3	<1.5	<1.5	nm
1,3-Butadiene	ug/m3	<0.26	<0.26	nm
Butane	ug/m3	<28	<28	nm
Bromomethane	ug/m3	<14	<14	nm
Chloroethane	ug/m3	<15	<15	nm
Vinyl bromide	ug/m3	<2.5	<2.5	nm
Ethanol	ug/m3	200	190	5
Acrolein	ug/m3	<0.66	<0.66	nm
Pentane	ug/m3	<17	<17	nm
Trichlorofluoromethane	ug/m3	<13	<13	nm
Acetone	ug/m3	810	820	1
2-Propanol	ug/m3	<50	<50	nm
1,1-Dichloroethene	ug/m3	<2.3	<2.3	nm
trans-1,2-Dichloroethene	ug/m3	<2.3	<2.3	nm
Methylene chloride	ug/m3	<200	<200	nm
t-Butyl alcohol (TBA)	ug/m3	<70	<70	nm
3-Chloropropene	ug/m3	<9.1	<9.1	nm
CFC-113	ug/m3	<4.4	<4.4	nm
Carbon disulfide	ug/m3	<36	<36	nm
Methyl t-butyl ether (MTBE)	ug/m3	<10	<10	nm
Vinyl acetate	ug/m3	<41	<41	nm
1,1-Dichloroethane	ug/m3	<2.3	<2.3	nm
cis-1,2-Dichloroethene	ug/m3	<2.3	<2.3	nm
Hexane	ug/m3	<20	<20	nm
Chloroform	ug/m3	<0.28	<0.28	nm
Ethyl acetate	ug/m3	<42	<42	nm
Tetrahydrofuran	ug/m3	19	20	5
2-Butanone (MEK)	ug/m3	<17	<17	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.23	<0.23	nm
1,1,1-Trichloroethane	ug/m3	<3.2	<3.2	nm
Carbon tetrachloride	ug/m3	<1.8	<1.8	nm
Benzene	ug/m3	<1.9	<1.9	nm
Cyclohexane	ug/m3	<40	<40	nm
1,2-Dichloropropane	ug/m3	<1.3	<1.3	nm
1,4-Dioxane	ug/m3	<2.1	<2.1	nm
2,2,4-Trimethylpentane	ug/m3	<27	<27	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/01/22

Date Received: 01/21/22

Project: Spic n Span 060172, F&BI 201302

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 201302-01 1/5.8 (Duplicate, continued)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Methyl methacrylate	ug/m3	<24	<24	nm
Heptane	ug/m3	<24	<24	nm
Bromodichloromethane	ug/m3	<0.39	<0.39	nm
Trichloroethene	ug/m3	<0.62	<0.62	nm
cis-1,3-Dichloropropene	ug/m3	<2.6	<2.6	nm
4-Methyl-2-pentanone	ug/m3	<24	<24	nm
trans-1,3-Dichloropropene	ug/m3	<2.6	<2.6	nm
Toluene	ug/m3	<110	<110	nm
1,1,2-Trichloroethane	ug/m3	<0.32	<0.32	nm
2-Hexanone	ug/m3	<24	<24	nm
Tetrachloroethene	ug/m3	<39	<39	nm
Dibromochloromethane	ug/m3	<0.49	<0.49	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.45	<0.45	nm
Chlorobenzene	ug/m3	<2.7	<2.7	nm
Ethylbenzene	ug/m3	4.6	4.6	0
1,1,2,2-Tetrachloroethane	ug/m3	<0.8	<0.8	nm
Nonane	ug/m3	<30	<30	nm
Isopropylbenzene	ug/m3	<14	<14	nm
2-Chlorotoluene	ug/m3	<30	<30	nm
Propylbenzene	ug/m3	<14	<14	nm
4-Ethyltoluene	ug/m3	<14	<14	nm
m,p-Xylene	ug/m3	17	16	6
o-Xylene	ug/m3	5.7	5.6	2
Styrene	ug/m3	<4.9	<4.9	nm
Bromoform	ug/m3	<12	<12	nm
Benzyl chloride	ug/m3	<0.3	<0.3	nm
1,3,5-Trimethylbenzene	ug/m3	<14	<14	nm
1,2,4-Trimethylbenzene	ug/m3	<14	<14	nm
1,3-Dichlorobenzene	ug/m3	<3.5	<3.5	nm
1,4-Dichlorobenzene	ug/m3	<1.3	<1.3	nm
1,2-Dichlorobenzene	ug/m3	<3.5	<3.5	nm
1,2,4-Trichlorobenzene	ug/m3	<4.3	<4.3	nm
Naphthalene	ug/m3	<1.5	<1.5	nm
Hexachlorobutadiene	ug/m3	<1.2	<1.2	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/01/22

Date Received: 01/21/22

Project: Spic n Span 060172, F&BI 201302

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Propene	ug/m3	23	85	70-130
Dichlorodifluoromethane	ug/m3	67	107	70-130
Chloromethane	ug/m3	28	89	70-130
F-114	ug/m3	94	105	70-130
Vinyl chloride	ug/m3	35	96	70-130
1,3-Butadiene	ug/m3	30	92	70-130
Butane	ug/m3	32	95	70-130
Bromomethane	ug/m3	52	104	70-130
Chloroethane	ug/m3	36	98	70-130
Vinyl bromide	ug/m3	59	99	70-130
Ethanol	ug/m3	25	119	70-130
Acrolein	ug/m3	31	95	70-130
Pentane	ug/m3	40	97	70-130
Trichlorofluoromethane	ug/m3	76	108	70-130
Acetone	ug/m3	32	97	70-130
2-Propanol	ug/m3	33	93	70-130
1,1-Dichloroethene	ug/m3	54	97	70-130
trans-1,2-Dichloroethene	ug/m3	54	98	70-130
Methylene chloride	ug/m3	94	77	70-130
t-Butyl alcohol (TBA)	ug/m3	41	95	70-130
3-Chloropropene	ug/m3	42	93	70-130
CFC-113	ug/m3	100	107	70-130
Carbon disulfide	ug/m3	42	93	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	95	70-130
Vinyl acetate	ug/m3	48	85	70-130
1,1-Dichloroethane	ug/m3	55	99	70-130
cis-1,2-Dichloroethene	ug/m3	54	97	70-130
Hexane	ug/m3	48	95	70-130
Chloroform	ug/m3	66	105	70-130
Ethyl acetate	ug/m3	49	100	70-130
Tetrahydrofuran	ug/m3	40	87	70-130
2-Butanone (MEK)	ug/m3	40	100	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	109	70-130
1,1,1-Trichloroethane	ug/m3	74	108	70-130
Carbon tetrachloride	ug/m3	85	111	70-130
Benzene	ug/m3	43	95	70-130
Cyclohexane	ug/m3	46	91	70-130
1,2-Dichloropropane	ug/m3	62	94	70-130
1,4-Dioxane	ug/m3	49	98	70-130
2,2,4-Trimethylpentane	ug/m3	63	96	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/01/22

Date Received: 01/21/22

Project: Spic n Span 060172, F&BI 201302

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (Continued)

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Methyl methacrylate	ug/m3	55	98	70-130
Heptane	ug/m3	55	92	70-130
Bromodichloromethane	ug/m3	90	108	70-130
Trichloroethene	ug/m3	73	101	70-130
cis-1,3-Dichloropropene	ug/m3	61	103	70-130
4-Methyl-2-pentanone	ug/m3	55	96	70-130
trans-1,3-Dichloropropene	ug/m3	61	109	70-130
Toluene	ug/m3	51	108	70-130
1,1,2-Trichloroethane	ug/m3	74	103	70-130
2-Hexanone	ug/m3	55	93	70-130
Tetrachloroethene	ug/m3	92	115	70-130
Dibromochloromethane	ug/m3	120	113	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	100	70-130
Chlorobenzene	ug/m3	62	112	70-130
Ethylbenzene	ug/m3	59	97	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	101	70-130
Nonane	ug/m3	71	82	70-130
Isopropylbenzene	ug/m3	66	112	70-130
2-Chlorotoluene	ug/m3	70	106	70-130
Propylbenzene	ug/m3	66	98	70-130
4-Ethyltoluene	ug/m3	66	96	70-130
m,p-Xylene	ug/m3	120	100	70-130
o-Xylene	ug/m3	59	101	70-130
Styrene	ug/m3	58	98	70-130
Bromoform	ug/m3	140	121	70-130
Benzyl chloride	ug/m3	70	106	70-130
1,3,5-Trimethylbenzene	ug/m3	66	92	70-130
1,2,4-Trimethylbenzene	ug/m3	66	88	70-130
1,3-Dichlorobenzene	ug/m3	81	110	70-130
1,4-Dichlorobenzene	ug/m3	81	97	70-130
1,2-Dichlorobenzene	ug/m3	81	104	70-130
1,2,4-Trichlorobenzene	ug/m3	100	95	70-130
Naphthalene	ug/m3	71	92	70-130
Hexachlorobutadiene	ug/m3	140	122	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

201302

SAMPLE CHAIN OF CUSTODY

01-21-22

Page # 1 of 1

Report To Jeremy Porter

Company ASPECT CONSULTING

Address 710 2nd Ave Suite 560

City, State, ZIP SEATTLE, WA 98104

Phone 206.790.2129 Email jeremy.porter@aspectconsulting.com

SAMPLERS (signature) Monique Rutter

PROJECT NAME & ADDRESS Spil n Span

PO # 660172

NOTES:

INVOICE TO

INVOICE TO

TURNAROUND TIME
 Standard
 RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
 Default: Clean after 3 days
 Archive (Fee may apply).

SAMPLE INFORMATION

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. (°Hg)	Field Initial Time	Final Vac. (°Hg)	Field Final Time	ANALYSIS REQUESTED				Notes	
										TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH		Helium
VGAC-1-EFF-012022-01		3287	242	IA / (SG)	1/20/22	30	1120	5	1124		X				
VGAC-1-1NF-012022-02		3445	259	IA / (SG)	↓	30	1121	5	1125		↓				
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											

Samples received at 18 °C

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS-CO-CO-CTO-15.DOC

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>Monique Rutter</u>	<u>Monique Rutter</u>					1/21/22	1541
Received by: <u>Monique Rutter</u>	<u>Monique Rutter</u>			ASPECT		1/21/22	1541
Relinquished by: <u>Monique Rutter</u>	<u>Monique Rutter</u>			ASPECT		1/21/22	1541
Received by: <u>Monique Rutter</u>	<u>Monique Rutter</u>			ASPECT		1/21/22	1541

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 23, 2021

Jeremy Porter, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Porter:

Included are the results from the testing of material submitted on August 17, 2021 from the Spic'N Span 060172, F&BI 108267 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Aspect Data
ASP0823R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 17, 2021 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Spic'N Span 060172, F&BI 108267 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
108267 -01	VGAC-1-INF-081721
108267 -02	VGAC-1-EFF-081721

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

Individually certified canisters were provided for TO-15 sampling.

The APH EC5-8 aliphatics, APH EC9-12 aliphatics, acetone and tetrachloroethene concentration in sample VGAC-1-INF-081721 exceeded the calibration range of the instrument. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-INF-081721	Client:	Aspect Consulting, LLC
Date Received:	08/17/21	Project:	Spic'N Span 060172, F&BI 108267
Date Collected:	08/17/21	Lab ID:	108267-01 1/5.9
Date Analyzed:	08/18/21	Data File:	081817.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	116	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	10,000 ve
APH EC9-12 aliphatics	28,000 ve
APH EC9-10 aromatics	410

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-EFF-081721	Client:	Aspect Consulting, LLC
Date Received:	08/17/21	Project:	Spic'N Span 060172, F&BI 108267
Date Collected:	08/17/21	Lab ID:	108267-02 1/4.1
Date Analyzed:	08/19/21	Data File:	081911.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	86	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	310
APH EC9-12 aliphatics	250
APH EC9-10 aromatics	<100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic'N Span 060172, F&BI 108267
Date Collected:	Not Applicable	Lab ID:	01-1851 MB
Date Analyzed:	08/18/21	Data File:	081816.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	87	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-INF-081721	Client:	Aspect Consulting, LLC
Date Received:	08/17/21	Project:	Spic'N Span 060172, F&BI 108267
Date Collected:	08/17/21	Lab ID:	108267-01 1/5.9
Date Analyzed:	08/18/21	Data File:	081817.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	118	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<7.1	<4.1	1,2-Dichloropropane	2.6	0.55
Dichlorodifluoromethane	6.0	1.2	1,4-Dioxane	<2.1	<0.59
Chloromethane	<22	<11	2,2,4-Trimethylpentane	<28	<5.9
F-114	<4.1	<0.59	Methyl methacrylate	<24	<5.9
Vinyl chloride	5.1	2.0	Heptane	<24	<5.9
1,3-Butadiene	<0.26	<0.12	Bromodichloromethane	<0.4	<0.059
Butane	<28	<12	Trichloroethene	380	71
Bromomethane	<14	<3.5	cis-1,3-Dichloropropene	<2.7	<0.59
Chloroethane	<16	<5.9	4-Methyl-2-pentanone	<24	<5.9
Vinyl bromide	<2.6	<0.59	trans-1,3-Dichloropropene	<2.7	<0.59
Ethanol	<44	<24	Toluene	<110	<29
Acrolein	3.8	1.6	1,1,2-Trichloroethane	<0.32	<0.059
Pentane	22	7.6	2-Hexanone	<24	<5.9
Trichlorofluoromethane	<13	<2.4	Tetrachloroethene	9,900 ve	1,500 ve
Acetone	210 ve	89 ve	Dibromochloromethane	<0.5	<0.059
2-Propanol	<51	<21	1,2-Dibromoethane (EDB)	<0.45	<0.059
1,1-Dichloroethene	<2.3	<0.59	Chlorobenzene	<2.7	<0.59
trans-1,2-Dichloroethene	9.9	2.5	Ethylbenzene	8.9	2.1
Methylene chloride	<200 jl	<59 jl	1,1,2,2-Tetrachloroethane	<0.81	<0.12
t-Butyl alcohol (TBA)	<72	<24	Nonane	<31 ca	<5.9 ca
3-Chloropropene	<9.2	<2.9	Isopropylbenzene	16	3.2
CFC-113	<4.5	<0.59	2-Chlorotoluene	<31	<5.9
Carbon disulfide	210	68	Propylbenzene	<15	<2.9
Methyl t-butyl ether (MTBE)	<11	<2.9	4-Ethyltoluene	<15	<2.9
Vinyl acetate	<42	<12	m,p-Xylene	27	6.2
1,1-Dichloroethane	<2.4	<0.59	o-Xylene	11	2.6
cis-1,2-Dichloroethene	180	45	Styrene	<5	<1.2
Hexane	<21	<5.9	Bromoform	<12	<1.2
Chloroform	14	2.9	Benzyl chloride	<0.31	<0.059
Ethyl acetate	<43	<12	1,3,5-Trimethylbenzene	<15	<2.9
Tetrahydrofuran	34	11	1,2,4-Trimethylbenzene	19	3.9
2-Butanone (MEK)	43	15	1,3-Dichlorobenzene	<3.5	<0.59
1,2-Dichloroethane (EDC)	15	3.8	1,4-Dichlorobenzene	<1.3	<0.22
1,1,1-Trichloroethane	<3.2	<0.59	1,2-Dichlorobenzene	<3.5	<0.59
Carbon tetrachloride	<1.9	<0.29	1,2,4-Trichlorobenzene	<4.4	<0.59
Benzene	24	7.5	Naphthalene	8.8	1.7
Cyclohexane	<41	<12	Hexachlorobutadiene	<1.3	<0.12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-EFF-081721	Client:	Aspect Consulting, LLC
Date Received:	08/17/21	Project:	Spic'N Span 060172, F&BI 108267
Date Collected:	08/17/21	Lab ID:	108267-02 1/4.1
Date Analyzed:	08/19/21	Data File:	081911.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	86	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<4.9	<2.9	1,2-Dichloropropane	<0.95	<0.2
Dichlorodifluoromethane	3.1	0.63	1,4-Dioxane	<1.5	<0.41
Chloromethane	<15	<7.4	2,2,4-Trimethylpentane	<19	<4.1
F-114	<2.9	<0.41	Methyl methacrylate	<17	<4.1
Vinyl chloride	2.4	0.93	Heptane	<17	<4.1
1,3-Butadiene	<0.18	<0.082	Bromodichloromethane	<0.27	<0.041
Butane	<19	<8.2	Trichloroethene	<0.44	<0.082
Bromomethane	<9.6	<2.5	cis-1,3-Dichloropropene	<1.9	<0.41
Chloroethane	<11	<4.1	4-Methyl-2-pentanone	<17	<4.1
Vinyl bromide	<1.8	<0.41	trans-1,3-Dichloropropene	<1.9	<0.41
Ethanol	<31	<16	Toluene	<77	<20
Acrolein	<0.45	<0.21	1,1,2-Trichloroethane	<0.22	<0.041
Pentane	<12	<4.1	2-Hexanone	<17	<4.1
Trichlorofluoromethane	<9.2	<1.6	Tetrachloroethene	<28	<4.1
Acetone	<19	<8.2	Dibromochloromethane	<0.35	<0.041
2-Propanol	<35	<14	1,2-Dibromoethane (EDB)	<0.32	<0.041
1,1-Dichloroethene	<1.6	<0.41	Chlorobenzene	<1.9	<0.41
trans-1,2-Dichloroethene	<1.6	<0.41	Ethylbenzene	3.7	0.85
Methylene chloride	<140 jl	<41 jl	1,1,2,2-Tetrachloroethane	<0.56	<0.082
t-Butyl alcohol (TBA)	<50	<16	Nonane	<22	<4.1
3-Chloropropene	<6.4	<2	Isopropylbenzene	11	2.3
CFC-113	<3.1	<0.41	2-Chlorotoluene	<21	<4.1
Carbon disulfide	<26	<8.2	Propylbenzene	<10	<2
Methyl t-butyl ether (MTBE)	<7.4	<2	4-Ethyltoluene	<10	<2
Vinyl acetate	<29	<8.2	m,p-Xylene	15	3.4
1,1-Dichloroethane	<1.7	<0.41	o-Xylene	4.8	1.1
cis-1,2-Dichloroethene	<1.6	<0.41	Styrene	<3.5	<0.82
Hexane	<14	<4.1	Bromoform	<8.5	<0.82
Chloroform	<0.2	<0.041	Benzyl chloride	<0.21	<0.041
Ethyl acetate	<30	<8.2	1,3,5-Trimethylbenzene	<10	<2
Tetrahydrofuran	19	6.4	1,2,4-Trimethylbenzene	<10	<2
2-Butanone (MEK)	<12	<4.1	1,3-Dichlorobenzene	<2.5	<0.41
1,2-Dichloroethane (EDC)	<0.17	<0.041	1,4-Dichlorobenzene	<0.94	<0.16
1,1,1-Trichloroethane	<2.2	<0.41	1,2-Dichlorobenzene	<2.5	<0.41
Carbon tetrachloride	<1.3	<0.2	1,2,4-Trichlorobenzene	<3	<0.41
Benzene	1.7	0.52	Naphthalene	<1.1	<0.2
Cyclohexane	<28	<8.2	Hexachlorobutadiene	<0.87	<0.082

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic'N Span 060172, F&BI 108267
Date Collected:	08/18/21	Lab ID:	01-1851 MB
Date Analyzed:	08/18/21	Data File:	081816.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	87	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.49	<0.1	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<0.7	<0.1	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<2.3	<0.6	cis-1,3-Dichloropropene	<0.45	<0.1
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<4.1	<1
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<19	<5
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<3	<1	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35 jl	<10 jl	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2 ca	<1 ca
3-Chloropropene	<1.6	<0.5	Isopropylbenzene	<2.5	<0.5
CFC-113	<0.77	<0.1	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<2.5	<0.5
Methyl t-butyl ether (MTBE)	<1.8	<0.5	4-Ethyltoluene	<2.5	<0.5
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<2.5	<0.5
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<2.5	<0.5
2-Butanone (MEK)	<2.9	<1	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/23/21

Date Received: 08/17/21

Project: Spic'N Span 060172, F&BI 108267

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 108267-01 1/5.9 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	10,000	9,700	3
APH EC9-12 aliphatics	ug/m3	28,000	28,000	0
APH EC9-10 aromatics	ug/m3	410	370	10

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	83	70-130
APH EC9-12 aliphatics	ug/m3	67	104	70-130
APH EC9-10 aromatics	ug/m3	67	90	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/23/21

Date Received: 08/17/21

Project: Spic'N Span 060172, F&BI 108267

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 108267-01 1/5.9 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	<7.1	<7.1	nm
Dichlorodifluoromethane	ug/m3	6.0	5.0	18
Chloromethane	ug/m3	<22	<22	nm
F-114	ug/m3	<4.1	<4.1	nm
Vinyl chloride	ug/m3	5.1	4.7	8
1,3-Butadiene	ug/m3	<0.26	<0.26	nm
Butane	ug/m3	<28	<28	nm
Bromomethane	ug/m3	<14	<14	nm
Chloroethane	ug/m3	<16	<16	nm
Vinyl bromide	ug/m3	<2.6	<2.6	nm
Ethanol	ug/m3	<44	<44	nm
Acrolein	ug/m3	3.8	3.8	0
Pentane	ug/m3	22	19	15
Trichlorofluoromethane	ug/m3	<13	<13	nm
Acetone	ug/m3	210	210	0
2-Propanol	ug/m3	<51	<51	nm
1,1-Dichloroethene	ug/m3	<2.3	<2.3	nm
trans-1,2-Dichloroethene	ug/m3	9.9	9.6	3
Methylene chloride	ug/m3	<200	<200	nm
t-Butyl alcohol (TBA)	ug/m3	<72	<72	nm
3-Chloropropene	ug/m3	<9.2	<9.2	nm
CFC-113	ug/m3	<4.5	<4.5	nm
Carbon disulfide	ug/m3	210	200	5
Methyl t-butyl ether (MTBE)	ug/m3	<11	<11	nm
Vinyl acetate	ug/m3	<42	<42	nm
1,1-Dichloroethane	ug/m3	<2.4	<2.4	nm
cis-1,2-Dichloroethene	ug/m3	180	180	0
Hexane	ug/m3	<21	<21	nm
Chloroform	ug/m3	14	14	0
Ethyl acetate	ug/m3	<43	<43	nm
Tetrahydrofuran	ug/m3	34	33	3
2-Butanone (MEK)	ug/m3	43	48	11
1,2-Dichloroethane (EDC)	ug/m3	15	15	0
1,1,1-Trichloroethane	ug/m3	<3.2	<3.2	nm
Carbon tetrachloride	ug/m3	<1.9	<1.9	nm
Benzene	ug/m3	24	24	0
Cyclohexane	ug/m3	<41	<41	nm
1,2-Dichloropropane	ug/m3	2.6	2.5	4
1,4-Dioxane	ug/m3	<2.1	<2.1	nm
2,2,4-Trimethylpentane	ug/m3	<28	<28	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/23/21

Date Received: 08/17/21

Project: Spic'N Span 060172, F&BI 108267

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 108267-01 1/5.9 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Methyl methacrylate	ug/m3	<24	<24	nm
Heptane	ug/m3	<24	<24	nm
Bromodichloromethane	ug/m3	<0.4	<0.4	nm
Trichloroethene	ug/m3	380	370	3
cis-1,3-Dichloropropene	ug/m3	<2.7	<2.7	nm
4-Methyl-2-pentanone	ug/m3	<24	<24	nm
trans-1,3-Dichloropropene	ug/m3	<2.7	<2.7	nm
Toluene	ug/m3	<110	<110	nm
1,1,2-Trichloroethane	ug/m3	<0.32	<0.32	nm
2-Hexanone	ug/m3	<24	<24	nm
Tetrachloroethene	ug/m3	9,900	9,400	5
Dibromochloromethane	ug/m3	<0.5	<0.5	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.45	<0.45	nm
Chlorobenzene	ug/m3	<2.7	<2.7	nm
Ethylbenzene	ug/m3	8.9	8.4	6
1,1,2,2-Tetrachloroethane	ug/m3	<0.81	<0.81	nm
Nonane	ug/m3	<31	<31	nm
Isopropylbenzene	ug/m3	16	17	6
2-Chlorotoluene	ug/m3	<31	<31	nm
Propylbenzene	ug/m3	<15	<15	nm
4-Ethyltoluene	ug/m3	<15	<15	nm
m,p-Xylene	ug/m3	27	27	0
o-Xylene	ug/m3	11	11	0
Styrene	ug/m3	<5	<5	nm
Bromoform	ug/m3	<12	<12	nm
Benzyl chloride	ug/m3	<0.31	<0.31	nm
1,3,5-Trimethylbenzene	ug/m3	<15	<15	nm
1,2,4-Trimethylbenzene	ug/m3	19	20	5
1,3-Dichlorobenzene	ug/m3	<3.5	<3.5	nm
1,4-Dichlorobenzene	ug/m3	<1.3	<1.3	nm
1,2-Dichlorobenzene	ug/m3	<3.5	<3.5	nm
1,2,4-Trichlorobenzene	ug/m3	<4.4	<4.4	nm
Naphthalene	ug/m3	8.8	9.2	4
Hexachlorobutadiene	ug/m3	<1.3	<1.3	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/23/21

Date Received: 08/17/21

Project: Spic'N Span 060172, F&BI 108267

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Propene	ug/m3	23	109	70-130
Dichlorodifluoromethane	ug/m3	67	89	70-130
Chloromethane	ug/m3	28	101	70-130
F-114	ug/m3	94	99	70-130
Vinyl chloride	ug/m3	35	82	70-130
1,3-Butadiene	ug/m3	30	89	70-130
Butane	ug/m3	32	80	70-130
Bromomethane	ug/m3	52	100	70-130
Chloroethane	ug/m3	36	97	70-130
Vinyl bromide	ug/m3	59	98	70-130
Ethanol	ug/m3	25	93	70-130
Acrolein	ug/m3	31	85	70-130
Pentane	ug/m3	40	82	70-130
Trichlorofluoromethane	ug/m3	76	107	70-130
Acetone	ug/m3	32	91	70-130
2-Propanol	ug/m3	33	81	70-130
1,1-Dichloroethene	ug/m3	54	94	70-130
trans-1,2-Dichloroethene	ug/m3	54	95	70-130
Methylene chloride	ug/m3	94	62 vo	70-130
t-Butyl alcohol (TBA)	ug/m3	41	93	70-130
3-Chloropropene	ug/m3	42	85	70-130
CFC-113	ug/m3	100	94	70-130
Carbon disulfide	ug/m3	42	93	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	96	70-130
Vinyl acetate	ug/m3	48	73	70-130
1,1-Dichloroethane	ug/m3	55	97	70-130
cis-1,2-Dichloroethene	ug/m3	54	98	70-130
Hexane	ug/m3	48	83	70-130
Chloroform	ug/m3	66	103	70-130
Ethyl acetate	ug/m3	49	88	70-130
Tetrahydrofuran	ug/m3	40	80	70-130
2-Butanone (MEK)	ug/m3	40	84	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	110	70-130
1,1,1-Trichloroethane	ug/m3	74	109	70-130
Carbon tetrachloride	ug/m3	85	110	70-130
Benzene	ug/m3	43	95	70-130
Cyclohexane	ug/m3	46	99	70-130
1,2-Dichloropropane	ug/m3	62	82	70-130
1,4-Dioxane	ug/m3	49	91	70-130
2,2,4-Trimethylpentane	ug/m3	63	82	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/23/21

Date Received: 08/17/21

Project: Spic'N Span 060172, F&BI 108267

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance Criteria
			Recovery LCS	
Methyl methacrylate	ug/m3	55	79	70-130
Heptane	ug/m3	55	76	70-130
Bromodichloromethane	ug/m3	90	95	70-130
Trichloroethene	ug/m3	73	91	70-130
cis-1,3-Dichloropropene	ug/m3	61	94	70-130
4-Methyl-2-pentanone	ug/m3	55	87	70-130
trans-1,3-Dichloropropene	ug/m3	61	92	70-130
Toluene	ug/m3	51	94	70-130
1,1,2-Trichloroethane	ug/m3	74	88	70-130
2-Hexanone	ug/m3	55	79	70-130
Tetrachloroethene	ug/m3	92	103	70-130
Dibromochloromethane	ug/m3	120	94	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	92	70-130
Chlorobenzene	ug/m3	62	102	70-130
Ethylbenzene	ug/m3	59	93	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	95	70-130
Nonane	ug/m3	71	68 vo	70-130
Isopropylbenzene	ug/m3	66	89	70-130
2-Chlorotoluene	ug/m3	70	102	70-130
Propylbenzene	ug/m3	66	91	70-130
4-Ethyltoluene	ug/m3	66	85	70-130
m,p-Xylene	ug/m3	120	96	70-130
o-Xylene	ug/m3	59	100	70-130
Styrene	ug/m3	58	86	70-130
Bromoform	ug/m3	140	112	70-130
Benzyl chloride	ug/m3	70	106	70-130
1,3,5-Trimethylbenzene	ug/m3	66	92	70-130
1,2,4-Trimethylbenzene	ug/m3	66	86	70-130
1,3-Dichlorobenzene	ug/m3	81	103	70-130
1,4-Dichlorobenzene	ug/m3	81	98	70-130
1,2-Dichlorobenzene	ug/m3	81	104	70-130
1,2,4-Trichlorobenzene	ug/m3	100	76	70-130
Naphthalene	ug/m3	71	70	70-130
Hexachlorobutadiene	ug/m3	140	110	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

108267

SAMPLE CHAIN OF CUSTODY

ME 8/17/21

Page # 1 of 1

Report To Jeremy Porter

Company Aspect Consulting

Address 710 2nd Ave Suite 550

City, State, ZIP Seattle, WA 98104

Phone 206 740 2129 Email jporter@aspectconsulting.com

SAMPLERS (signature) Monique Rutter
PROJECT NAME & ADDRESS
Spicyn Span
PO # 060172

NOTES:
AP
INVOICE TO
AP

TURNAROUND TIME
Standard 72 hrs
RUSH 75
Rush charges authorized by:

SAMPLE DISPOSAL
 Default: Clean after 3 days
 Archive (Fee may apply)

SAMPLE INFORMATION

ANALYSIS REQUESTED

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	Helium	Notes
VGAC-1-INF-081721	01	4175	101	IA / SG	08/17/21	30	0919	5	0923	X			X		
VGAC-1-EFF-081721	02	4181	117	IA / SG	08/17/21	30	0910	5	0915	X			X		
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											

Samples received at 21 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>Monique Rutter</u>	MONIQUE RUTTER	ASPECT	08/17/21	1504
<u>Will Raddard</u>	Will Raddard	FBI	8/17/21	15:04
Received by:				
Relinquished by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044
FORMS\COC\COCCTO-15.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 30, 2021

Jeremy Porter, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Porter:

Included are the results from the testing of material submitted on August 25, 2021 from the Spic'N Span 060172, F&BI 108405 project. There are 15 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Aspect Data
ASP0830R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 25, 2021 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Spic'N Span 060172, F&BI 108405 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
108405 -01	VGAC-1-EFF-082521
108405 -02	VGAC-1-INF-082521

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

Individually certified canisters were provided for TO-15 sampling.

The concentration of several analytes exceeded the calibration range of the instrument. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-EFF-082521	Client:	Aspect Consulting, LLC
Date Received:	08/25/21	Project:	Spic'N Span 060172, F&BI 108405
Date Collected:	08/25/21	Lab ID:	108405-01 1/5.8
Date Analyzed:	08/26/21	Data File:	082616.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	102	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	1,600
APH EC9-12 aliphatics	1,500
APH EC9-10 aromatics	340

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-INF-082521	Client:	Aspect Consulting, LLC
Date Received:	08/25/21	Project:	Spic'N Span 060172, F&BI 108405
Date Collected:	08/25/21	Lab ID:	108405-02 1/8.4
Date Analyzed:	08/26/21	Data File:	082619.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	117	70	130

	Concentration
Compounds:	ug/m3
APH EC9-10 aromatics	810

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-INF-082521	Client:	Aspect Consulting, LLC
Date Received:	08/25/21	Project:	Spic'N Span 060172, F&BI 108405
Date Collected:	08/25/21	Lab ID:	108405-02 1/42
Date Analyzed:	08/26/21	Data File:	082618.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	103	70	130

Compounds:	Concentration
	ug/m3

APH EC5-8 aliphatics	18,000
APH EC9-12 aliphatics	84,000 ve

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic'N Span 060172, F&BI 108405
Date Collected:	Not Applicable	Lab ID:	01-1867 MB
Date Analyzed:	08/26/21	Data File:	082611.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	99	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-EFF-082521	Client:	Aspect Consulting, LLC
Date Received:	08/25/21	Project:	Spic'N Span 060172, F&BI 108405
Date Collected:	08/25/21	Lab ID:	108405-01 1/5.8
Date Analyzed:	08/26/21	Data File:	082616.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	100	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<7	<4.1	1,2-Dichloropropane	<1.3	<0.29
Dichlorodifluoromethane	6.3	1.3	1,4-Dioxane	<2.1	<0.58
Chloromethane	<22	<10	2,2,4-Trimethylpentane	<27	<5.8
F-114	<4.1	<0.58	Methyl methacrylate	<24	<5.8
Vinyl chloride	7.4	2.9	Heptane	<24	<5.8
1,3-Butadiene	<0.26	<0.12	Bromodichloromethane	<0.39	<0.058
Butane	110	44	Trichloroethene	<0.62	<0.12
Bromomethane	<14	<3.5	cis-1,3-Dichloropropene	<2.6	<0.58
Chloroethane	<15	<5.8	4-Methyl-2-pentanone	55	13
Vinyl bromide	<2.5	<0.58	trans-1,3-Dichloropropene	<2.6	<0.58
Ethanol	<44	<23	Toluene	160	43
Acrolein	<0.66	<0.29	1,1,2-Trichloroethane	<0.32	<0.058
Pentane	<17	<5.8	2-Hexanone	<24	<5.8
Trichlorofluoromethane	<13	<2.3	Tetrachloroethene	<39	<5.8
Acetone	2,000 ve	820 ve	Dibromochloromethane	<0.49	<0.058
2-Propanol	120	50	1,2-Dibromoethane (EDB)	<0.45	<0.058
1,1-Dichloroethene	<2.3	<0.58	Chlorobenzene	<2.7	<0.58
trans-1,2-Dichloroethene	<2.3	<0.58	Ethylbenzene	76	18
Methylene chloride	<200	<58	1,1,2,2-Tetrachloroethane	<0.8	<0.12
t-Butyl alcohol (TBA)	<70	<23	Nonane	100	19
3-Chloropropene	<9.1	<2.9	Isopropylbenzene	<14	<2.9
CFC-113	<4.4	<0.58	2-Chlorotoluene	<30	<5.8
Carbon disulfide	<36	<12	Propylbenzene	<14	<2.9
Methyl t-butyl ether (MTBE)	<10	<2.9	4-Ethyltoluene	<14	<2.9
Vinyl acetate	<41	<12	m,p-Xylene	300	70
1,1-Dichloroethane	<2.3	<0.58	o-Xylene	83	19
cis-1,2-Dichloroethene	<2.3	<0.58	Styrene	23	5.4
Hexane	<20	<5.8	Bromoform	<12	<1.2
Chloroform	0.62	0.13	Benzyl chloride	0.39	0.075
Ethyl acetate	<42	<12	1,3,5-Trimethylbenzene	<14	<2.9
Tetrahydrofuran	4.1	1.4	1,2,4-Trimethylbenzene	31	6.2
2-Butanone (MEK)	<17	<5.8	1,3-Dichlorobenzene	42	6.9
1,2-Dichloroethane (EDC)	0.45	0.11	1,4-Dichlorobenzene	<1.3	<0.22
1,1,1-Trichloroethane	<3.2	<0.58	1,2-Dichlorobenzene	<3.5	<0.58
Carbon tetrachloride	<1.8	<0.29	1,2,4-Trichlorobenzene	<4.3	<0.58
Benzene	<1.9	<0.58	Naphthalene	50	9.6
Cyclohexane	<40	<12	Hexachlorobutadiene	<1.2	<0.12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-INF-082521	Client:	Aspect Consulting, LLC
Date Received:	08/25/21	Project:	Spic'N Span 060172, F&BI 108405
Date Collected:	08/25/21	Lab ID:	108405-02 1/8.4
Date Analyzed:	08/26/21	Data File:	082619.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	% Recovery:	Lower Limit:	Upper Limit:
Surrogates:			
4-Bromofluorobenzene	115	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<10	<5.9	1,2-Dichloropropane	3.9	0.85
Dichlorodifluoromethane	5.2	1.0	1,4-Dioxane	<3	<0.84
Chloromethane	<31	<15	2,2,4-Trimethylpentane	<39	<8.4
F-114	<5.9	<0.84	Methyl methacrylate	<34	<8.4
Vinyl chloride	7.5	2.9	Heptane	<34	<8.4
1,3-Butadiene	<0.37	<0.17	Bromodichloromethane	<0.56	<0.084
Butane	140	61	Trichloroethene	560	110
Bromomethane	<20	<5	cis-1,3-Dichloropropene	<3.8	<0.84
Chloroethane	<22	<8.4	4-Methyl-2-pentanone	55	14
Vinyl bromide	<3.7	<0.84	trans-1,3-Dichloropropene	<3.8	<0.84
Ethanol	<63	<34	Toluene	<160	<42
Acrolein	10	4.5	1,1,2-Trichloroethane	<0.46	<0.084
Pentane	34	11	2-Hexanone	<34	<8.4
Trichlorofluoromethane	<19	<3.4	Tetrachloroethene	15,000 ve	2,200 ve
Acetone	1,900 ve	800 ve	Dibromochloromethane	<0.72	<0.084
2-Propanol	100	42	1,2-Dibromoethane (EDB)	<0.65	<0.084
1,1-Dichloroethene	<3.3	<0.84	Chlorobenzene	<3.9	<0.84
trans-1,2-Dichloroethene	17	4.3	Ethylbenzene	62	14
Methylene chloride	<290	<84	1,1,2,2-Tetrachloroethane	<1.2	<0.17
t-Butyl alcohol (TBA)	<100	<34	Nonane	150	28
3-Chloropropene	<13	<4.2	Isopropylbenzene	<21	<4.2
CFC-113	<6.4	<0.84	2-Chlorotoluene	<43	<8.4
Carbon disulfide	200	64	Propylbenzene	22	4.4
Methyl t-butyl ether (MTBE)	<15	<4.2	4-Ethyltoluene	<21	<4.2
Vinyl acetate	91	26	m,p-Xylene	240	54
1,1-Dichloroethane	<3.4	<0.84	o-Xylene	66	15
cis-1,2-Dichloroethene	300	75	Styrene	27	6.3
Hexane	<30	<8.4	Bromoform	<17	<1.7
Chloroform	18	3.6	Benzyl chloride	<0.43	<0.084
Ethyl acetate	<61	<17	1,3,5-Trimethylbenzene	21	4.3
Tetrahydrofuran	30	10	1,2,4-Trimethylbenzene	48	9.8
2-Butanone (MEK)	60	20	1,3-Dichlorobenzene	36	6.0
1,2-Dichloroethane (EDC)	21	5.2	1,4-Dichlorobenzene	<1.9	<0.32
1,1,1-Trichloroethane	<4.6	<0.84	1,2-Dichlorobenzene	<5.1	<0.84
Carbon tetrachloride	<2.6	<0.42	1,2,4-Trichlorobenzene	<6.2	<0.84
Benzene	12	3.9	Naphthalene	58	11
Cyclohexane	<58	<17	Hexachlorobutadiene	<1.8	<0.17

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-INF-082521	Client:	Aspect Consulting, LLC
Date Received:	08/25/21	Project:	Spic'N Span 060172, F&BI 108405
Date Collected:	08/25/21	Lab ID:	108405-02 1/42
Date Analyzed:	08/26/21	Data File:	082618.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	% Recovery:	Lower Limit:	Upper Limit:
Surrogates:			
4-Bromofluorobenzene	102	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<51	<29	1,2-Dichloropropane	<9.7	<2.1
Dichlorodifluoromethane	<21	<4.2	1,4-Dioxane	<15	<4.2
Chloromethane	<160	<76	2,2,4-Trimethylpentane	<200	<42
F-114	<29	<4.2	Methyl methacrylate	<170	<42
Vinyl chloride	<11	<4.2	Heptane	<170	<42
1,3-Butadiene	<1.9	<0.84	Bromodichloromethane	<2.8	<0.42
Butane	<200	<84	Trichloroethene	700	130
Bromomethane	<98	<25	cis-1,3-Dichloropropene	<19	<4.2
Chloroethane	<110	<42	4-Methyl-2-pentanone	<170	<42
Vinyl bromide	<18	<4.2	trans-1,3-Dichloropropene	<19	<4.2
Ethanol	<320	<170	Toluene	<790	<210
Acrolein	13	5.8	1,1,2-Trichloroethane	<2.3	<0.42
Pentane	<120	<42	2-Hexanone	<170	<42
Trichlorofluoromethane	<94	<17	Tetrachloroethene	17,000 ve	2,600 ve
Acetone	2,400 ve	1,000 ve	Dibromochloromethane	<3.6	<0.42
2-Propanol	<360	<150	1,2-Dibromoethane (EDB)	<3.2	<0.42
1,1-Dichloroethene	<17	<4.2	Chlorobenzene	<19	<4.2
trans-1,2-Dichloroethene	22	5.5	Ethylbenzene	78	18
Methylene chloride	<1,500	<420	1,1,2,2-Tetrachloroethane	<5.8	<0.84
t-Butyl alcohol (TBA)	<510	<170	Nonane	<220	<42
3-Chloropropene	<66	<21	Isopropylbenzene	<100	<21
CFC-113	<32	<4.2	2-Chlorotoluene	<220	<42
Carbon disulfide	<260	<84	Propylbenzene	<100	<21
Methyl t-butyl ether (MTBE)	<76	<21	4-Ethyltoluene	<100	<21
Vinyl acetate	<300	<84	m,p-Xylene	290	68
1,1-Dichloroethane	<17	<4.2	o-Xylene	83	19
cis-1,2-Dichloroethene	380	96	Styrene	<36	<8.4
Hexane	<150	<42	Bromoform	<87	<8.4
Chloroform	23	4.7	Benzyl chloride	<2.2	<0.42
Ethyl acetate	<300	<84	1,3,5-Trimethylbenzene	<100	<21
Tetrahydrofuran	39	13	1,2,4-Trimethylbenzene	<100	<21
2-Butanone (MEK)	<120	<42	1,3-Dichlorobenzene	43	7.2
1,2-Dichloroethane (EDC)	27	6.7	1,4-Dichlorobenzene	<9.6	<1.6
1,1,1-Trichloroethane	<23	<4.2	1,2-Dichlorobenzene	<25	<4.2
Carbon tetrachloride	<13	<2.1	1,2,4-Trichlorobenzene	<31	<4.2
Benzene	17	5.3	Naphthalene	62	12
Cyclohexane	<290	<84	Hexachlorobutadiene	<9	<0.84

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic'N Span 060172, F&BI 108405
Date Collected:	Not Applicable	Lab ID:	01-1867 MB
Date Analyzed:	08/26/21	Data File:	082611.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	97	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.49	<0.1	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<0.7	<0.1	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<2.3	<0.6	cis-1,3-Dichloropropene	<0.45	<0.1
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<4.1	<1
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<19	<5
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<3	<1	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<1.6	<0.5	Isopropylbenzene	<2.5	<0.5
CFC-113	<0.77	<0.1	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<2.5	<0.5
Methyl t-butyl ether (MTBE)	<1.8	<0.5	4-Ethyltoluene	<2.5	<0.5
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<2.5	<0.5
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<2.5	<0.5
2-Butanone (MEK)	<2.9	<1	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/30/21

Date Received: 08/25/21

Project: Spic'N Span 060172, F&BI 108405

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 108405-01 1/5.8 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	1,600	1,800	12
APH EC9-12 aliphatics	ug/m3	1,500	1,400	7
APH EC9-10 aromatics	ug/m3	340	340	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	91	70-130
APH EC9-12 aliphatics	ug/m3	67	121	70-130
APH EC9-10 aromatics	ug/m3	67	106	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/30/21

Date Received: 08/25/21

Project: Spic'N Span 060172, F&BI 108405

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 108405-01 1/5.8 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	<7	<7	nm
Dichlorodifluoromethane	ug/m3	6.3	6.4	2
Chloromethane	ug/m3	<22	<22	nm
F-114	ug/m3	<4.1	<4.1	nm
Vinyl chloride	ug/m3	7.4	7.2	3
1,3-Butadiene	ug/m3	<0.26	<0.26	nm
Butane	ug/m3	110	100	10
Bromomethane	ug/m3	<14	<14	nm
Chloroethane	ug/m3	<15	<15	nm
Vinyl bromide	ug/m3	<2.5	<2.5	nm
Ethanol	ug/m3	<44	44	nm
Acrolein	ug/m3	<0.66	<0.66	nm
Pentane	ug/m3	<17	<17	nm
Trichlorofluoromethane	ug/m3	<13	<13	nm
Acetone	ug/m3	2,000	1,900	5
2-Propanol	ug/m3	120	120	0
1,1-Dichloroethene	ug/m3	<2.3	<2.3	nm
trans-1,2-Dichloroethene	ug/m3	<2.3	<2.3	nm
Methylene chloride	ug/m3	<200	<200	nm
t-Butyl alcohol (TBA)	ug/m3	<70	<70	nm
3-Chloropropene	ug/m3	<9.1	<9.1	nm
CFC-113	ug/m3	<4.4	<4.4	nm
Carbon disulfide	ug/m3	<36	<36	nm
Methyl t-butyl ether (MTBE)	ug/m3	<10	<10	nm
Vinyl acetate	ug/m3	<41	<41	nm
1,1-Dichloroethane	ug/m3	<2.3	<2.3	nm
cis-1,2-Dichloroethene	ug/m3	<2.3	<2.3	nm
Hexane	ug/m3	<20	<20	nm
Chloroform	ug/m3	0.62	0.59	5
Ethyl acetate	ug/m3	<42	<42	nm
Tetrahydrofuran	ug/m3	4.1	4.0	2
2-Butanone (MEK)	ug/m3	<17	<17	nm
1,2-Dichloroethane (EDC)	ug/m3	0.45	0.45	0
1,1,1-Trichloroethane	ug/m3	<3.2	<3.2	nm
Carbon tetrachloride	ug/m3	<1.8	<1.8	nm
Benzene	ug/m3	<1.9	<1.9	nm
Cyclohexane	ug/m3	<40	<40	nm
1,2-Dichloropropane	ug/m3	<1.3	<1.3	nm
1,4-Dioxane	ug/m3	<2.1	<2.1	nm
2,2,4-Trimethylpentane	ug/m3	<27	<27	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/30/21

Date Received: 08/25/21

Project: Spic'N Span 060172, F&BI 108405

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 108405-01 1/5.8 (Duplicate) (continued)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Methyl methacrylate	ug/m3	<24	<24	nm
Heptane	ug/m3	<24	<24	nm
Bromodichloromethane	ug/m3	<0.39	<0.39	nm
Trichloroethene	ug/m3	<0.62	<0.62	nm
cis-1,3-Dichloropropene	ug/m3	<2.6	<2.6	nm
4-Methyl-2-pentanone	ug/m3	55	61	10
trans-1,3-Dichloropropene	ug/m3	<2.6	<2.6	nm
Toluene	ug/m3	160	160	0
1,1,2-Trichloroethane	ug/m3	<0.32	<0.32	nm
2-Hexanone	ug/m3	<24	<24	nm
Tetrachloroethene	ug/m3	<39	<39	nm
Dibromochloromethane	ug/m3	<0.49	<0.49	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.45	<0.45	nm
Chlorobenzene	ug/m3	<2.7	<2.7	nm
Ethylbenzene	ug/m3	76	75	1
1,1,2,2-Tetrachloroethane	ug/m3	<0.8	<0.8	nm
Nonane	ug/m3	100	100	0
Isopropylbenzene	ug/m3	<14	<14	nm
2-Chlorotoluene	ug/m3	<30	<30	nm
Propylbenzene	ug/m3	<14	<14	nm
4-Ethyltoluene	ug/m3	<14	<14	nm
m,p-Xylene	ug/m3	300	300	0
o-Xylene	ug/m3	83	83	0
Styrene	ug/m3	23	22	4
Bromoform	ug/m3	<12	<12	nm
Benzyl chloride	ug/m3	0.39	0.33	17
1,3,5-Trimethylbenzene	ug/m3	<14	<14	nm
1,2,4-Trimethylbenzene	ug/m3	31	31	0
1,3-Dichlorobenzene	ug/m3	42	42	0
1,4-Dichlorobenzene	ug/m3	<1.3	<1.3	nm
1,2-Dichlorobenzene	ug/m3	<3.5	<3.5	nm
1,2,4-Trichlorobenzene	ug/m3	<4.3	<4.3	nm
Naphthalene	ug/m3	50	54	8
Hexachlorobutadiene	ug/m3	<1.2	<1.2	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/30/21

Date Received: 08/25/21

Project: Spic'N Span 060172, F&BI 108405

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Propene	ug/m3	23	116	70-130
Dichlorodifluoromethane	ug/m3	67	98	70-130
Chloromethane	ug/m3	28	97	70-130
F-114	ug/m3	94	98	70-130
Vinyl chloride	ug/m3	35	106	70-130
1,3-Butadiene	ug/m3	30	100	70-130
Butane	ug/m3	32	98	70-130
Bromomethane	ug/m3	52	109	70-130
Chloroethane	ug/m3	36	101	70-130
Vinyl bromide	ug/m3	59	110	70-130
Ethanol	ug/m3	25	106	70-130
Acrolein	ug/m3	31	102	70-130
Pentane	ug/m3	40	102	70-130
Trichlorofluoromethane	ug/m3	76	105	70-130
Acetone	ug/m3	32	101	70-130
2-Propanol	ug/m3	33	109	70-130
1,1-Dichloroethene	ug/m3	54	101	70-130
trans-1,2-Dichloroethene	ug/m3	54	101	70-130
Methylene chloride	ug/m3	94	97	70-130
t-Butyl alcohol (TBA)	ug/m3	41	106	70-130
3-Chloropropene	ug/m3	42	103	70-130
CFC-113	ug/m3	100	106	70-130
Carbon disulfide	ug/m3	42	108	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	103	70-130
Vinyl acetate	ug/m3	48	108	70-130
1,1-Dichloroethane	ug/m3	55	103	70-130
cis-1,2-Dichloroethene	ug/m3	54	101	70-130
Hexane	ug/m3	48	103	70-130
Chloroform	ug/m3	66	100	70-130
Ethyl acetate	ug/m3	49	100	70-130
Tetrahydrofuran	ug/m3	40	100	70-130
2-Butanone (MEK)	ug/m3	40	103	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	101	70-130
1,1,1-Trichloroethane	ug/m3	74	103	70-130
Carbon tetrachloride	ug/m3	85	103	70-130
Benzene	ug/m3	43	100	70-130
Cyclohexane	ug/m3	46	101	70-130
1,2-Dichloropropane	ug/m3	62	101	70-130
1,4-Dioxane	ug/m3	49	105	70-130
2,2,4-Trimethylpentane	ug/m3	63	105	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/30/21

Date Received: 08/25/21

Project: Spic'N Span 060172, F&BI 108405

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (continued)

Analyte	Reporting Units	Spike Level	Percent	Acceptance Criteria
			Recovery LCS	
Methyl methacrylate	ug/m3	55	107	70-130
Heptane	ug/m3	55	107	70-130
Bromodichloromethane	ug/m3	90	103	70-130
Trichloroethene	ug/m3	73	97	70-130
cis-1,3-Dichloropropene	ug/m3	61	105	70-130
4-Methyl-2-pentanone	ug/m3	55	102	70-130
trans-1,3-Dichloropropene	ug/m3	61	104	70-130
Toluene	ug/m3	51	102	70-130
1,1,2-Trichloroethane	ug/m3	74	102	70-130
2-Hexanone	ug/m3	55	104	70-130
Tetrachloroethene	ug/m3	92	104	70-130
Dibromochloromethane	ug/m3	120	102	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	100	70-130
Chlorobenzene	ug/m3	62	103	70-130
Ethylbenzene	ug/m3	59	98	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	100	70-130
Nonane	ug/m3	71	104	70-130
Isopropylbenzene	ug/m3	66	103	70-130
2-Chlorotoluene	ug/m3	70	101	70-130
Propylbenzene	ug/m3	66	104	70-130
4-Ethyltoluene	ug/m3	66	105	70-130
m,p-Xylene	ug/m3	120	101	70-130
o-Xylene	ug/m3	59	101	70-130
Styrene	ug/m3	58	102	70-130
Bromoform	ug/m3	140	104	70-130
Benzyl chloride	ug/m3	70	106	70-130
1,3,5-Trimethylbenzene	ug/m3	66	102	70-130
1,2,4-Trimethylbenzene	ug/m3	66	103	70-130
1,3-Dichlorobenzene	ug/m3	81	97	70-130
1,4-Dichlorobenzene	ug/m3	81	106	70-130
1,2-Dichlorobenzene	ug/m3	81	99	70-130
1,2,4-Trichlorobenzene	ug/m3	100	100	70-130
Naphthalene	ug/m3	71	95	70-130
Hexachlorobutadiene	ug/m3	140	99	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

108465

Report To: Jeremy Prier

Company: ASPECT CONSULTING

Address: 710 2nd AVE SUITE 550

City, State, ZIP: Seattle, WA 98104

Phone: 206.740.2129 Email: jprier@aspectconsulting.com

SAMPLE CHAIN OF CUSTODY

SAMPLERS (signature)

Monique Ruite ME 8/25/21

Page # 1 of 1

TURNAROUND TIME

PROJECT NAME & ADDRESS

Spic 'N Span
060172

PO #

NOTES:

INVOICE TO

Standard
 RUSH 72 hrs.
Rush charges authorized by:

SAMPLE DISPOSAL
 Default: Clean after 3 days
 Archive (Fee may apply)

SAMPLE INFORMATION

ANALYSIS REQUESTED

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	TO15 eVOCs	APH	Helium	Notes
V6AC-1-EFF-082521	01	2299	243	IA / <u>SG</u>	08/25/21	30	1213	5	1218	X					
V6AC-1-INT-082521	02	3385	307	IA / <u>SG</u>	08/25/21	30	1220	5	1224	X			X		
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											

Samples received at 29 °C

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS \00C\COCTO-15.DOC

SIGNATURE

Relinquished by: Monique Ruite

Received by: Will Raddford

PRINT NAME

Monique Ruite

Will Raddford

COMPANY

ASPECT

FiBI

DATE

08/25/21

8/25/21

TIME

1512

1512

Received by:

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 4, 2021

Jeremy Porter, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Porter:

Included are the results from the testing of material submitted on September 22, 2021 from the Spic'N Span 060172, F&BI 109387 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Aspect Data
ASP1004R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 22, 2021 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Spic’N Span 060172, F&BI 109387 project. Samples were logged in under the laboratory ID’s listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
109387 -01	VGAC-INF-1-092221
109387 -02	VGAC-EFF-1-092221

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

Several analytes exceeded the calibration range. The data were flagged accordingly.

Benzyl chloride in the TO-15 laboratory control sample exceeded the acceptance criteria. The analyte was not detected in the samples, therefore the data were acceptable.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-INF-1-092221	Client:	Aspect Consulting, LLC
Date Received:	09/22/21	Project:	Spic'N Span 060172, F&BI 109387
Date Collected:	09/22/21	Lab ID:	109387-01 1/9
Date Analyzed:	09/28/21	Data File:	092724.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	114	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	18,000 ve
APH EC9-12 aliphatics	61,000 ve
APH EC9-10 aromatics	1,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-EFF-1-092221	Client:	Aspect Consulting, LLC
Date Received:	09/22/21	Project:	Spic'N Span 060172, F&BI 109387
Date Collected:	09/22/21	Lab ID:	109387-02 1/6
Date Analyzed:	09/27/21	Data File:	092722.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	1,000
APH EC9-12 aliphatics	2,000
APH EC9-10 aromatics	290

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic'N Span 060172, F&BI 109387
Date Collected:	Not Applicable	Lab ID:	01-2134 MB
Date Analyzed:	09/27/21	Data File:	092711.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-INF-1-092221	Client:	Aspect Consulting, LLC
Date Received:	09/22/21	Project:	Spic'N Span 060172, F&BI 109387
Date Collected:	09/22/21	Lab ID:	109387-01 1/9
Date Analyzed:	09/28/21	Data File:	092724.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	112	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	96	56	1,2-Dichloropropane	9.4	2.0
Dichlorodifluoromethane	4.9	0.98	1,4-Dioxane	<3.2	<0.9
Chloromethane	<33	<16	2,2,4-Trimethylpentane	<42	<9
F-114	<6.3	<0.9	Methyl methacrylate	<37	<9
Vinyl chloride	9.6	3.8	Heptane	<37	<9
1,3-Butadiene	<0.4	<0.18	Bromodichloromethane	<0.6	<0.09
Butane	<43	<18	Trichloroethene	1,400 ve	260 ve
Bromomethane	<21	<5.4	cis-1,3-Dichloropropene	<4.1	<0.9
Chloroethane	<24	<9	4-Methyl-2-pentanone	95	23
Vinyl bromide	<3.9	<0.9	trans-1,3-Dichloropropene	<4.1	<0.9
Ethanol	230	120	Toluene	170	45
Acrolein	18	7.6	1,1,2-Trichloroethane	<0.5	<0.09
Pentane	42	14	2-Hexanone	<37	<9
Trichlorofluoromethane	<20	<3.6	Tetrachloroethene	15,000 ve	2,200 ve
Acetone	3,200 ve	1,300 ve	Dibromochloromethane	<0.77	<0.09
2-Propanol	<77	<31	1,2-Dibromoethane (EDB)	<0.69	<0.09
1,1-Dichloroethene	10	2.6	Chlorobenzene	<4.1	<0.9
trans-1,2-Dichloroethene	60	15	Ethylbenzene	36	8.2
Methylene chloride	<310	<90	1,1,2,2-Tetrachloroethane	<1.2	<0.18
t-Butyl alcohol (TBA)	<110	<36	Nonane	<47	<9
3-Chloropropene	<14	<4.5	Isopropylbenzene	30	6.2
CFC-113	<6.9	<0.9	2-Chlorotoluene	<47	<9
Carbon disulfide	130	42	Propylbenzene	47	9.5
Methyl t-butyl ether (MTBE)	<16	<4.5	4-Ethyltoluene	26	5.2
Vinyl acetate	470	130	m,p-Xylene	130	29
1,1-Dichloroethane	<3.6	<0.9	o-Xylene	45	10
cis-1,2-Dichloroethene	890 ve	220 ve	Styrene	20	4.7
Hexane	<32	<9	Bromoform	<19	<1.8
Chloroform	18	3.6	Benzyl chloride	<0.47	<0.09
Ethyl acetate	<65	<18	1,3,5-Trimethylbenzene	31	6.3
Tetrahydrofuran	20	6.8	1,2,4-Trimethylbenzene	93	19
2-Butanone (MEK)	440 ve	150 ve	1,3-Dichlorobenzene	9.0	1.5
1,2-Dichloroethane (EDC)	44	11	1,4-Dichlorobenzene	<2.1	<0.34
1,1,1-Trichloroethane	<4.9	<0.9	1,2-Dichlorobenzene	<5.4	<0.9
Carbon tetrachloride	<2.8	<0.45	1,2,4-Trichlorobenzene	<6.7	<0.9
Benzene	51	16	Naphthalene	83	16
Cyclohexane	<62	<18	Hexachlorobutadiene	<1.9	<0.18

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-EFF-1-092221	Client:	Aspect Consulting, LLC
Date Received:	09/22/21	Project:	Spic'N Span 060172, F&BI 109387
Date Collected:	09/22/21	Lab ID:	109387-02 1/6
Date Analyzed:	09/27/21	Data File:	092722.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	110	64	1,2-Dichloropropane	<1.4	<0.3
Dichlorodifluoromethane	4.9	1.0	1,4-Dioxane	<2.2	<0.6
Chloromethane	<22	<11	2,2,4-Trimethylpentane	<28	<6
F-114	<4.2	<0.6	Methyl methacrylate	<25	<6
Vinyl chloride	14	5.6	Heptane	<25	<6
1,3-Butadiene	<0.27	<0.12	Bromodichloromethane	<0.4	<0.06
Butane	<29	<12	Trichloroethene	0.74	0.14
Bromomethane	<14	<3.6	cis-1,3-Dichloropropene	<2.7	<0.6
Chloroethane	<16	<6	4-Methyl-2-pentanone	92	22
Vinyl bromide	<2.6	<0.6	trans-1,3-Dichloropropene	<2.7	<0.6
Ethanol	230 ve	120 ve	Toluene	170	45
Acrolein	1.4	0.62	1,1,2-Trichloroethane	<0.33	<0.06
Pentane	<18	<6	2-Hexanone	<25	<6
Trichlorofluoromethane	<13	<2.4	Tetrachloroethene	<41	<6
Acetone	93	39	Dibromochloromethane	<0.51	<0.06
2-Propanol	<52	<21	1,2-Dibromoethane (EDB)	<0.46	<0.06
1,1-Dichloroethene	<2.4	<0.6	Chlorobenzene	<2.8	<0.6
trans-1,2-Dichloroethene	<2.4	<0.6	Ethylbenzene	22	5.0
Methylene chloride	<210	<60	1,1,2,2-Tetrachloroethane	<0.82	<0.12
t-Butyl alcohol (TBA)	<73	<24	Nonane	<31	<6
3-Chloropropene	<9.4	<3	Isopropylbenzene	<15	<3
CFC-113	<4.6	<0.6	2-Chlorotoluene	<31	<6
Carbon disulfide	<37	<12	Propylbenzene	<15	<3
Methyl t-butyl ether (MTBE)	<11	<3	4-Ethyltoluene	<15	<3
Vinyl acetate	<42	<12	m,p-Xylene	98	23
1,1-Dichloroethane	<2.4	<0.6	o-Xylene	36	8.4
cis-1,2-Dichloroethene	<2.4	<0.6	Styrene	21	5.0
Hexane	<21	<6	Bromoform	<12	<1.2
Chloroform	<0.29	<0.06	Benzyl chloride	0.37 ca	0.072 ca
Ethyl acetate	<43	<12	1,3,5-Trimethylbenzene	<15	<3
Tetrahydrofuran	<3.5	<1.2	1,2,4-Trimethylbenzene	30	6.1
2-Butanone (MEK)	<18	<6	1,3-Dichlorobenzene	8.3	1.4
1,2-Dichloroethane (EDC)	0.44	0.11	1,4-Dichlorobenzene	<1.4	<0.23
1,1,1-Trichloroethane	<3.3	<0.6	1,2-Dichlorobenzene	<3.6	<0.6
Carbon tetrachloride	<1.9	<0.3	1,2,4-Trichlorobenzene	<4.5	<0.6
Benzene	2.3	0.73	Naphthalene	61	12
Cyclohexane	<41	<12	Hexachlorobutadiene	1.5	0.14

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic'N Span 060172, F&BI 109387
Date Collected:	Not Applicable	Lab ID:	01-2134 MB
Date Analyzed:	09/27/21	Data File:	092711.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	91	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.49	<0.1	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<0.7	<0.1	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<2.3	<0.6	cis-1,3-Dichloropropene	<0.45	<0.1
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<4.1	<1
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<19	<5
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<3	<1	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<1.6	<0.5	Isopropylbenzene	<2.5	<0.5
CFC-113	<0.77	<0.1	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<2.5	<0.5
Methyl t-butyl ether (MTBE)	<1.8	<0.5	4-Ethyltoluene	<2.5	<0.5
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<2.5	<0.5
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<2.5	<0.5
2-Butanone (MEK)	<2.9	<1	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/04/21

Date Received: 09/22/21

Project: Spic'N Span 060172, F&BI 109387

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 109387-02 1/6 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	1,000	1,100	10
APH EC9-12 aliphatics	ug/m3	2,000	2,100	5
APH EC9-10 aromatics	ug/m3	290	300	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	86	70-130
APH EC9-12 aliphatics	ug/m3	67	117	70-130
APH EC9-10 aromatics	ug/m3	67	98	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/04/21

Date Received: 09/22/21

Project: Spic'N Span 060172, F&BI 109387

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 109387-02 1/6 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	110	100	10
Dichlorodifluoromethane	ug/m3	4.9	5.3	8
Chloromethane	ug/m3	<22	<22	nm
F-114	ug/m3	<4.2	<4.2	nm
Vinyl chloride	ug/m3	14	14	0
1,3-Butadiene	ug/m3	<0.27	<0.27	nm
Butane	ug/m3	<29	<29	nm
Bromomethane	ug/m3	<14	<14	nm
Chloroethane	ug/m3	<16	<16	nm
Vinyl bromide	ug/m3	<2.6	<2.6	nm
Ethanol	ug/m3	230	220	4
Acrolein	ug/m3	1.4	1.5	7
Pentane	ug/m3	<18	<18	nm
Trichlorofluoromethane	ug/m3	<13	<13	nm
Acetone	ug/m3	93	92	1
2-Propanol	ug/m3	<52	<52	nm
1,1-Dichloroethene	ug/m3	<2.4	<2.4	nm
trans-1,2-Dichloroethene	ug/m3	<2.4	<2.4	nm
Methylene chloride	ug/m3	<210	<210	nm
t-Butyl alcohol (TBA)	ug/m3	<73	<73	nm
3-Chloropropene	ug/m3	<9.4	<9.4	nm
CFC-113	ug/m3	<4.6	<4.6	nm
Carbon disulfide	ug/m3	<37	<37	nm
Methyl t-butyl ether (MTBE)	ug/m3	<11	<11	nm
Vinyl acetate	ug/m3	<42	<42	nm
1,1-Dichloroethane	ug/m3	<2.4	<2.4	nm
cis-1,2-Dichloroethene	ug/m3	<2.4	<2.4	nm
Hexane	ug/m3	<21	<21	nm
Chloroform	ug/m3	<0.29	<0.29	nm
Ethyl acetate	ug/m3	<43	<43	nm
Tetrahydrofuran	ug/m3	<3.5	<3.5	nm
2-Butanone (MEK)	ug/m3	<18	<18	nm
1,2-Dichloroethane (EDC)	ug/m3	0.44	0.44	0
1,1,1-Trichloroethane	ug/m3	<3.3	<3.3	nm
Carbon tetrachloride	ug/m3	<1.9	<1.9	nm
Benzene	ug/m3	2.3	2.4	4
Cyclohexane	ug/m3	<41	<41	nm
1,2-Dichloropropane	ug/m3	<1.4	<1.4	nm
1,4-Dioxane	ug/m3	<2.2	<2.2	nm
2,2,4-Trimethylpentane	ug/m3	<28	<28	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/04/21

Date Received: 09/22/21

Project: Spic'N Span 060172, F&BI 109387

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 109387-02 1/6 (Duplicate, continued)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Methyl methacrylate	ug/m3	<25	<25	nm
Heptane	ug/m3	<25	<25	nm
Bromodichloromethane	ug/m3	<0.4	<0.4	nm
Trichloroethene	ug/m3	0.74	0.74	0
cis-1,3-Dichloropropene	ug/m3	<2.7	<2.7	nm
4-Methyl-2-pentanone	ug/m3	92	100	8
trans-1,3-Dichloropropene	ug/m3	<2.7	<2.7	nm
Toluene	ug/m3	170	170	0
1,1,2-Trichloroethane	ug/m3	<0.33	<0.33	nm
2-Hexanone	ug/m3	<25	<25	nm
Tetrachloroethene	ug/m3	<41	<41	nm
Dibromochloromethane	ug/m3	<0.51	<0.51	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.46	<0.46	nm
Chlorobenzene	ug/m3	<2.8	<2.8	nm
Ethylbenzene	ug/m3	22	22	0
1,1,2,2-Tetrachloroethane	ug/m3	<0.82	<0.82	nm
Nonane	ug/m3	<31	<31	nm
Isopropylbenzene	ug/m3	<15	<15	nm
2-Chlorotoluene	ug/m3	<31	<31	nm
Propylbenzene	ug/m3	<15	<15	nm
4-Ethyltoluene	ug/m3	<15	<15	nm
m,p-Xylene	ug/m3	98	98	0
o-Xylene	ug/m3	36	36	0
Styrene	ug/m3	21	22	5
Bromoform	ug/m3	<12	<12	nm
Benzyl chloride	ug/m3	0.37	0.40	8
1,3,5-Trimethylbenzene	ug/m3	<15	<15	nm
1,2,4-Trimethylbenzene	ug/m3	30	30	0
1,3-Dichlorobenzene	ug/m3	8.3	8.3	0
1,4-Dichlorobenzene	ug/m3	<1.4	<1.4	nm
1,2-Dichlorobenzene	ug/m3	<3.6	<3.6	nm
1,2,4-Trichlorobenzene	ug/m3	<4.5	<4.5	nm
Naphthalene	ug/m3	61	64	5
Hexachlorobutadiene	ug/m3	1.5	1.5	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/04/21

Date Received: 09/22/21

Project: Spic'N Span 060172, F&BI 109387

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Propene	ug/m3	23	104	70-130
Dichlorodifluoromethane	ug/m3	67	102	70-130
Chloromethane	ug/m3	28	111	70-130
F-114	ug/m3	94	109	70-130
Vinyl chloride	ug/m3	35	105	70-130
1,3-Butadiene	ug/m3	30	97	70-130
Butane	ug/m3	32	97	70-130
Bromomethane	ug/m3	52	118	70-130
Chloroethane	ug/m3	36	105	70-130
Vinyl bromide	ug/m3	59	113	70-130
Ethanol	ug/m3	25	106	70-130
Acrolein	ug/m3	31	94	70-130
Pentane	ug/m3	40	87	70-130
Trichlorofluoromethane	ug/m3	76	107	70-130
Acetone	ug/m3	32	98	70-130
2-Propanol	ug/m3	33	106	70-130
1,1-Dichloroethene	ug/m3	54	105	70-130
trans-1,2-Dichloroethene	ug/m3	54	103	70-130
Methylene chloride	ug/m3	94	96	70-130
t-Butyl alcohol (TBA)	ug/m3	41	108	70-130
3-Chloropropene	ug/m3	42	96	70-130
CFC-113	ug/m3	100	111	70-130
Carbon disulfide	ug/m3	42	113	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	98	70-130
Vinyl acetate	ug/m3	48	119	70-130
1,1-Dichloroethane	ug/m3	55	107	70-130
cis-1,2-Dichloroethene	ug/m3	54	102	70-130
Hexane	ug/m3	48	92	70-130
Chloroform	ug/m3	66	104	70-130
Ethyl acetate	ug/m3	49	115	70-130
Tetrahydrofuran	ug/m3	40	90	70-130
2-Butanone (MEK)	ug/m3	40	97	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	100	70-130
1,1,1-Trichloroethane	ug/m3	74	115	70-130
Carbon tetrachloride	ug/m3	85	118	70-130
Benzene	ug/m3	43	99	70-130
Cyclohexane	ug/m3	46	88	70-130
1,2-Dichloropropane	ug/m3	62	108	70-130
1,4-Dioxane	ug/m3	49	100	70-130
2,2,4-Trimethylpentane	ug/m3	63	100	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/04/21

Date Received: 09/22/21

Project: Spic'N Span 060172, F&BI 109387

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (Continued)

Analyte	Reporting Units	Spike Level	Percent	Acceptance Criteria
			Recovery LCS	
Methyl methacrylate	ug/m3	55	116	70-130
Heptane	ug/m3	55	94	70-130
Bromodichloromethane	ug/m3	90	114	70-130
Trichloroethene	ug/m3	73	105	70-130
cis-1,3-Dichloropropene	ug/m3	61	114	70-130
4-Methyl-2-pentanone	ug/m3	55	117	70-130
trans-1,3-Dichloropropene	ug/m3	61	125	70-130
Toluene	ug/m3	51	101	70-130
1,1,2-Trichloroethane	ug/m3	74	111	70-130
2-Hexanone	ug/m3	55	112	70-130
Tetrachloroethene	ug/m3	92	114	70-130
Dibromochloromethane	ug/m3	120	119	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	113	70-130
Chlorobenzene	ug/m3	62	108	70-130
Ethylbenzene	ug/m3	59	93	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	106	70-130
Nonane	ug/m3	71	95	70-130
Isopropylbenzene	ug/m3	66	98	70-130
2-Chlorotoluene	ug/m3	70	107	70-130
Propylbenzene	ug/m3	66	100	70-130
4-Ethyltoluene	ug/m3	66	96	70-130
m,p-Xylene	ug/m3	120	98	70-130
o-Xylene	ug/m3	59	100	70-130
Styrene	ug/m3	58	94	70-130
Bromoform	ug/m3	140	125	70-130
Benzyl chloride	ug/m3	70	158 vo	70-130
1,3,5-Trimethylbenzene	ug/m3	66	101	70-130
1,2,4-Trimethylbenzene	ug/m3	66	94	70-130
1,3-Dichlorobenzene	ug/m3	81	105	70-130
1,4-Dichlorobenzene	ug/m3	81	104	70-130
1,2-Dichlorobenzene	ug/m3	81	103	70-130
1,2,4-Trichlorobenzene	ug/m3	100	88	70-130
Naphthalene	ug/m3	71	76	70-130
Hexachlorobutadiene	ug/m3	140	110	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

109387

SAMPLE CHAIN OF CUSTODY

ME 09/22/21

Page # 1 of 1

TURNAROUND TIME

Standard RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Default: Clean after 3 days
Archive (Fee may apply)

Report To Severny Putter
Company ASPECT CONSULTING
Address 710 2nd Ave Suite 550
City, State, ZIP Seattle, WA 98104
Phone 206.790.2129 Email putter@aspectconsulting.com

SAMPLERS (signature) <u>Monique Rutte</u>	PROJECT NAME & ADDRESS <u>Spic'N Span</u>	PO # <u>000172</u>
NOTES:	INVOICE TO	

SAMPLE INFORMATION ANALYSIS REQUESTED

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. (Hg)	Field Initial Time	Final Vac. (Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	Helium	Notes
VEAC-INF-1-092221	01	8312	88	IA / (SG)	9/22/21	29	1255	5	1300	X					
VEAC-EFF-1-092221	02	3254	02	IA / (SG)	9/22/21	30	1242	5	1252	X		X			
				IA / SG			29	1255	1300						
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044
FORMS \DOC\COCTO-15.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>Monique Rutte</u>	MONIQUE RUTTE	ASPECT	09/22/21	1331
<u>John Plun</u>	John Plun	FEB	9/22/21	1331
Received by:		Samples received at		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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October 21, 2021

Jeremy Porter, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Porter:

Included are the results from the testing of material submitted on October 6, 2021 from the Spic'N Span 060172, F&BI 110121 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Aspect Data
ASP1021R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 6, 2021 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Spic'N Span 060172, F&BI 110121 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
110121 -01	VGAC-1-EFF-100621
110121 -02	VGAC-1-INF-100621

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

Individually certified canisters were provided for TO-15 sampling.

Some MA-APH and TO-15 analytes for sample VGAC-1-INF-100621 exceeded the calibration range. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-EFF-100621	Client:	Aspect Consulting, LLC
Date Received:	10/06/21	Project:	Spic'N Span 060172, F&BI 110121
Date Collected:	10/06/21	Lab ID:	110121-01 1/5.9
Date Analyzed:	10/14/21	Data File:	101325.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	90	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	<440
APH EC9-12 aliphatics	<150
APH EC9-10 aromatics	<150

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-INF-100621	Client:	Aspect Consulting, LLC
Date Received:	10/06/21	Project:	Spic'N Span 060172, F&BI 110121
Date Collected:	10/06/21	Lab ID:	110121-02 1/46
Date Analyzed:	10/14/21	Data File:	101328.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	115	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	20,000
APH EC9-12 aliphatics	110,000 ve
APH EC9-10 aromatics	2,600

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic'N Span 060172, F&BI 110121
Date Collected:	Not Applicable	Lab ID:	01-2240 MB
Date Analyzed:	10/13/21	Data File:	101311.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	88	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-EFF-100621	Client:	Aspect Consulting, LLC
Date Received:	10/06/21	Project:	Spic'N Span 060172, F&BI 110121
Date Collected:	10/06/21	Lab ID:	110121-01 1/5.9
Date Analyzed:	10/14/21	Data File:	101325.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	140	79	1,2-Dichloropropane	<1.4	<0.29
Dichlorodifluoromethane	4.4	0.90	1,4-Dioxane	<2.1	<0.59
Chloromethane	<22	<11	2,2,4-Trimethylpentane	<28	<5.9
F-114	<4.1	<0.59	Methyl methacrylate	<24	<5.9
Vinyl chloride	7.4	2.9	Heptane	<24	<5.9
1,3-Butadiene	<0.26	<0.12	Bromodichloromethane	<0.4	<0.059
Butane	<28	<12	Trichloroethene	<0.63	<0.12
Bromomethane	<14	<3.5	cis-1,3-Dichloropropene	<2.7	<0.59
Chloroethane	<16	<5.9	4-Methyl-2-pentanone	<24	<5.9
Vinyl bromide	<2.6	<0.59	trans-1,3-Dichloropropene	<2.7	<0.59
Ethanol	140	73	Toluene	<110	<29
Acrolein	0.68	0.29	1,1,2-Trichloroethane	<0.32	<0.059
Pentane	<17	<5.9	2-Hexanone	<24	<5.9
Trichlorofluoromethane	<13	<2.4	Tetrachloroethene	<40	<5.9
Acetone	<28	<12	Dibromochloromethane	<0.5	<0.059
2-Propanol	<51	<21	1,2-Dibromoethane (EDB)	<0.45	<0.059
1,1-Dichloroethene	<2.3	<0.59	Chlorobenzene	<2.7	<0.59
trans-1,2-Dichloroethene	<2.3	<0.59	Ethylbenzene	4.3	1.0
Methylene chloride	<200	<59	1,1,2,2-Tetrachloroethane	<0.81	<0.12
t-Butyl alcohol (TBA)	<72	<24	Nonane	<31	<5.9
3-Chloropropene	<9.2	<2.9	Isopropylbenzene	<15	<2.9
CFC-113	<4.5	<0.59	2-Chlorotoluene	<31	<5.9
Carbon disulfide	<37	<12	Propylbenzene	<15	<2.9
Methyl t-butyl ether (MTBE)	<11	<2.9	4-Ethyltoluene	<15	<2.9
Vinyl acetate	<42	<12	m,p-Xylene	14	3.2
1,1-Dichloroethane	<2.4	<0.59	o-Xylene	4.9	1.1
cis-1,2-Dichloroethene	<2.3	<0.59	Styrene	<5	<1.2
Hexane	<21	<5.9	Bromoform	<12	<1.2
Chloroform	<0.29	<0.059	Benzyl chloride	<0.31	<0.059
Ethyl acetate	<43	<12	1,3,5-Trimethylbenzene	<15	<2.9
Tetrahydrofuran	13	4.3	1,2,4-Trimethylbenzene	<15	<2.9
2-Butanone (MEK)	<17	<5.9	1,3-Dichlorobenzene	<3.5	<0.59
1,2-Dichloroethane (EDC)	<0.24	<0.059	1,4-Dichlorobenzene	<1.3	<0.22
1,1,1-Trichloroethane	<3.2	<0.59	1,2-Dichlorobenzene	<3.5	<0.59
Carbon tetrachloride	<1.9	<0.29	1,2,4-Trichlorobenzene	<4.4	<0.59
Benzene	2.2	0.69	Naphthalene	2.0	0.39
Cyclohexane	<41	<12	Hexachlorobutadiene	<1.3	<0.12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-INF-100621	Client:	Aspect Consulting, LLC
Date Received:	10/06/21	Project:	Spic'N Span 060172, F&BI 110121
Date Collected:	10/06/21	Lab ID:	110121-02 1/46
Date Analyzed:	10/14/21	Data File:	101328.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	117	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	200	120	1,2-Dichloropropane	15	3.3
Dichlorodifluoromethane	<23	<4.6	1,4-Dioxane	<17	<4.6
Chloromethane	<170	<83	2,2,4-Trimethylpentane	<210	<46
F-114	<32	<4.6	Methyl methacrylate	<190	<46
Vinyl chloride	<12	<4.6	Heptane	<190	<46
1,3-Butadiene	<2	<0.92	Bromodichloromethane	<3.1	<0.46
Butane	<220	<92	Trichloroethene	1,000	190
Bromomethane	<110	<28	cis-1,3-Dichloropropene	<21	<4.6
Chloroethane	<120	<46	4-Methyl-2-pentanone	<190	<46
Vinyl bromide	<20	<4.6	trans-1,3-Dichloropropene	<21	<4.6
Ethanol	530	280	Toluene	<870	<230
Acrolein	69	30	1,1,2-Trichloroethane	<2.5	<0.46
Pentane	<140	<46	2-Hexanone	<190	<46
Trichlorofluoromethane	<100	<18	Tetrachloroethene	8,400 ve	1,200 ve
Acetone	10,000 ve	4,400 ve	Dibromochloromethane	<3.9	<0.46
2-Propanol	<400	<160	1,2-Dibromoethane (EDB)	<3.5	<0.46
1,1-Dichloroethene	<18	<4.6	Chlorobenzene	<21	<4.6
trans-1,2-Dichloroethene	46	12	Ethylbenzene	56	13
Methylene chloride	<1,600	<460	1,1,2,2-Tetrachloroethane	<6.3	<0.92
t-Butyl alcohol (TBA)	<560	<180	Nonane	<240	<46
3-Chloropropene	<72	<23	Isopropylbenzene	<110	<23
CFC-113	<35	<4.6	2-Chlorotoluene	<240	<46
Carbon disulfide	<290	<92	Propylbenzene	<110	<23
Methyl t-butyl ether (MTBE)	<83	<23	4-Ethyltoluene	<110	<23
Vinyl acetate	<320	<92	m,p-Xylene	150	34
1,1-Dichloroethane	<19	<4.6	o-Xylene	57	13
cis-1,2-Dichloroethene	620	160	Styrene	<39	<9.2
Hexane	<160	<46	Bromoform	<95	<9.2
Chloroform	19	3.9	Benzyl chloride	<2.4	<0.46
Ethyl acetate	<330	<92	1,3,5-Trimethylbenzene	<110	<23
Tetrahydrofuran	38	13	1,2,4-Trimethylbenzene	190	39
2-Butanone (MEK)	1,200	410	1,3-Dichlorobenzene	31	5.1
1,2-Dichloroethane (EDC)	69	17	1,4-Dichlorobenzene	<11	<1.7
1,1,1-Trichloroethane	<25	<4.6	1,2-Dichlorobenzene	<28	<4.6
Carbon tetrachloride	<14	<2.3	1,2,4-Trichlorobenzene	<34	<4.6
Benzene	100	32	Naphthalene	160	30
Cyclohexane	<320	<92	Hexachlorobutadiene	<9.8	<0.92

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic'N Span 060172, F&BI 110121
Date Collected:	Not Applicable	Lab ID:	01-2240 MB
Date Analyzed:	10/13/21	Data File:	101311.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	89	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.49	<0.1	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<0.7	<0.1	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<2.3	<0.6	cis-1,3-Dichloropropene	<0.45	<0.1
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<4.1	<1
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<19	<5
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<3	<1	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<1.6	<0.5	Isopropylbenzene	<2.5	<0.5
CFC-113	<0.77	<0.1	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<2.5	<0.5
Methyl t-butyl ether (MTBE)	<1.8	<0.5	4-Ethyltoluene	<2.5	<0.5
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<2.5	<0.5
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<2.5	<0.5
2-Butanone (MEK)	<2.9	<1	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/21

Date Received: 10/06/21

Project: Spic'N Span 060172, F&BI 110121

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 110121-01 1/5.9 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	<440	<440	nm
APH EC9-12 aliphatics	ug/m3	<150	<150	nm
APH EC9-10 aromatics	ug/m3	<150	<150	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	89	70-130
APH EC9-12 aliphatics	ug/m3	67	115	70-130
APH EC9-10 aromatics	ug/m3	67	103	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/21

Date Received: 10/06/21

Project: Spic'N Span 060172, F&BI 110121

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 110121-01 1/5.9 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	140	150	7
Dichlorodifluoromethane	ug/m3	4.4	4.7	7
Chloromethane	ug/m3	<22	<22	nm
F-114	ug/m3	<4.1	<4.1	nm
Vinyl chloride	ug/m3	7.4	7.5	1
1,3-Butadiene	ug/m3	<0.26	<0.26	nm
Butane	ug/m3	<28	<28	nm
Bromomethane	ug/m3	<14	<14	nm
Chloroethane	ug/m3	<16	<16	nm
Vinyl bromide	ug/m3	<2.6	<2.6	nm
Ethanol	ug/m3	140	140	0
Acrolein	ug/m3	0.68	<0.68	nm
Pentane	ug/m3	<17	<17	nm
Trichlorofluoromethane	ug/m3	<13	<13	nm
Acetone	ug/m3	<28	<28	nm
2-Propanol	ug/m3	<51	<51	nm
1,1-Dichloroethene	ug/m3	<2.3	<2.3	nm
trans-1,2-Dichloroethene	ug/m3	<2.3	<2.3	nm
Methylene chloride	ug/m3	<200	<200	nm
t-Butyl alcohol (TBA)	ug/m3	<72	<72	nm
3-Chloropropene	ug/m3	<9.2	<9.2	nm
CFC-113	ug/m3	<4.5	<4.5	nm
Carbon disulfide	ug/m3	<37	<37	nm
Methyl t-butyl ether (MTBE)	ug/m3	<11	<11	nm
Vinyl acetate	ug/m3	<42	<42	nm
1,1-Dichloroethane	ug/m3	<2.4	<2.4	nm
cis-1,2-Dichloroethene	ug/m3	<2.3	<2.3	nm
Hexane	ug/m3	<21	<21	nm
Chloroform	ug/m3	<0.29	<0.29	nm
Ethyl acetate	ug/m3	<43	<43	nm
Tetrahydrofuran	ug/m3	13	14	7
2-Butanone (MEK)	ug/m3	<17	<17	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.24	<0.24	nm
1,1,1-Trichloroethane	ug/m3	<3.2	<3.2	nm
Carbon tetrachloride	ug/m3	<1.9	<1.9	nm
Benzene	ug/m3	2.2	2.2	0
Cyclohexane	ug/m3	<41	<41	nm
1,2-Dichloropropane	ug/m3	<1.4	<1.4	nm
1,4-Dioxane	ug/m3	<2.1	<2.1	nm
2,2,4-Trimethylpentane	ug/m3	<28	<28	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/21

Date Received: 10/06/21

Project: Spic'N Span 060172, F&BI 110121

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 110121-01 1/5.9 (Duplicate, continued)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Methyl methacrylate	ug/m3	<24	<24	nm
Heptane	ug/m3	<24	<24	nm
Bromodichloromethane	ug/m3	<0.4	<0.4	nm
Trichloroethene	ug/m3	<0.63	<0.63	nm
cis-1,3-Dichloropropene	ug/m3	<2.7	<2.7	nm
4-Methyl-2-pentanone	ug/m3	<24	<24	nm
trans-1,3-Dichloropropene	ug/m3	<2.7	<2.7	nm
Toluene	ug/m3	<110	<110	nm
1,1,2-Trichloroethane	ug/m3	<0.32	<0.32	nm
2-Hexanone	ug/m3	<24	<24	nm
Tetrachloroethene	ug/m3	<40	<40	nm
Dibromochloromethane	ug/m3	<0.5	<0.5	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.45	<0.45	nm
Chlorobenzene	ug/m3	<2.7	<2.7	nm
Ethylbenzene	ug/m3	4.3	4.3	0
1,1,2,2-Tetrachloroethane	ug/m3	<0.81	<0.81	nm
Nonane	ug/m3	<31	<31	nm
Isopropylbenzene	ug/m3	<15	<15	nm
2-Chlorotoluene	ug/m3	<31	<31	nm
Propylbenzene	ug/m3	<15	<15	nm
4-Ethyltoluene	ug/m3	<15	<15	nm
m,p-Xylene	ug/m3	14	14	0
o-Xylene	ug/m3	4.9	4.8	2
Styrene	ug/m3	<5	<5	nm
Bromoform	ug/m3	<12	<12	nm
Benzyl chloride	ug/m3	<0.31	<0.31	nm
1,3,5-Trimethylbenzene	ug/m3	<15	<15	nm
1,2,4-Trimethylbenzene	ug/m3	<15	<15	nm
1,3-Dichlorobenzene	ug/m3	<3.5	<3.5	nm
1,4-Dichlorobenzene	ug/m3	<1.3	<1.3	nm
1,2-Dichlorobenzene	ug/m3	<3.5	<3.5	nm
1,2,4-Trichlorobenzene	ug/m3	<4.4	<4.4	nm
Naphthalene	ug/m3	2.0	2.3	14
Hexachlorobutadiene	ug/m3	<1.3	<1.3	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/21

Date Received: 10/06/21

Project: Spic'N Span 060172, F&BI 110121

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Propene	ug/m3	23	108	70-130
Dichlorodifluoromethane	ug/m3	67	111	70-130
Chloromethane	ug/m3	28	112	70-130
F-114	ug/m3	94	112	70-130
Vinyl chloride	ug/m3	35	108	70-130
1,3-Butadiene	ug/m3	30	105	70-130
Butane	ug/m3	32	106	70-130
Bromomethane	ug/m3	52	113	70-130
Chloroethane	ug/m3	36	112	70-130
Vinyl bromide	ug/m3	59	115	70-130
Ethanol	ug/m3	25	74	70-130
Acrolein	ug/m3	31	96	70-130
Pentane	ug/m3	40	93	70-130
Trichlorofluoromethane	ug/m3	76	116	70-130
Acetone	ug/m3	32	108	70-130
2-Propanol	ug/m3	33	101	70-130
1,1-Dichloroethene	ug/m3	54	107	70-130
trans-1,2-Dichloroethene	ug/m3	54	104	70-130
Methylene chloride	ug/m3	94	112	70-130
t-Butyl alcohol (TBA)	ug/m3	41	105	70-130
3-Chloropropene	ug/m3	42	98	70-130
CFC-113	ug/m3	100	114	70-130
Carbon disulfide	ug/m3	42	114	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	97	70-130
Vinyl acetate	ug/m3	48	96	70-130
1,1-Dichloroethane	ug/m3	55	108	70-130
cis-1,2-Dichloroethene	ug/m3	54	102	70-130
Hexane	ug/m3	48	94	70-130
Chloroform	ug/m3	66	106	70-130
Ethyl acetate	ug/m3	49	106	70-130
Tetrahydrofuran	ug/m3	40	96	70-130
2-Butanone (MEK)	ug/m3	40	99	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	106	70-130
1,1,1-Trichloroethane	ug/m3	74	112	70-130
Carbon tetrachloride	ug/m3	85	110	70-130
Benzene	ug/m3	43	101	70-130
Cyclohexane	ug/m3	46	86	70-130
1,2-Dichloropropane	ug/m3	62	115	70-130
1,4-Dioxane	ug/m3	49	108	70-130
2,2,4-Trimethylpentane	ug/m3	63	108	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/21

Date Received: 10/06/21

Project: Spic'N Span 060172, F&BI 110121

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (Continued)

Analyte	Reporting Units	Spike Level	Percent	Acceptance Criteria
			Recovery LCS	
Methyl methacrylate	ug/m3	55	109	70-130
Heptane	ug/m3	55	105	70-130
Bromodichloromethane	ug/m3	90	113	70-130
Trichloroethene	ug/m3	73	120	70-130
cis-1,3-Dichloropropene	ug/m3	61	118	70-130
4-Methyl-2-pentanone	ug/m3	55	115	70-130
trans-1,3-Dichloropropene	ug/m3	61	113	70-130
Toluene	ug/m3	51	106	70-130
1,1,2-Trichloroethane	ug/m3	74	123	70-130
2-Hexanone	ug/m3	55	110	70-130
Tetrachloroethene	ug/m3	92	122	70-130
Dibromochloromethane	ug/m3	120	114	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	118	70-130
Chlorobenzene	ug/m3	62	117	70-130
Ethylbenzene	ug/m3	59	100	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	120	70-130
Nonane	ug/m3	71	107	70-130
Isopropylbenzene	ug/m3	66	113	70-130
2-Chlorotoluene	ug/m3	70	113	70-130
Propylbenzene	ug/m3	66	112	70-130
4-Ethyltoluene	ug/m3	66	108	70-130
m,p-Xylene	ug/m3	120	109	70-130
o-Xylene	ug/m3	59	114	70-130
Styrene	ug/m3	58	114	70-130
Bromoform	ug/m3	140	119	70-130
Benzyl chloride	ug/m3	70	123	70-130
1,3,5-Trimethylbenzene	ug/m3	66	111	70-130
1,2,4-Trimethylbenzene	ug/m3	66	106	70-130
1,3-Dichlorobenzene	ug/m3	81	123	70-130
1,4-Dichlorobenzene	ug/m3	81	114	70-130
1,2-Dichlorobenzene	ug/m3	81	118	70-130
1,2,4-Trichlorobenzene	ug/m3	100	116	70-130
Naphthalene	ug/m3	71	114	70-130
Hexachlorobutadiene	ug/m3	140	122	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

110121

SAMPLE CHAIN OF CUSTODY

ME 10-06-21

Page # of

Report To Jenny Porter
 Company ASPECT CONSULTING
 Address 710 2nd Ave Suite 550
 City, State, ZIP Seattle, WA 98104
 Phone 206.740.2129 Email jporter@aspectconsulting.com

SAMPLER'S (signature) <u>Monique Rute</u>	
PROJECT NAME & ADDRESS <u>Spion Span</u>	PO # <u>060172</u>
NOTES:	INVOICE TO

TURNAROUND TIME
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH Rush charges authorized by:
SAMPLE DISPOSAL <input type="checkbox"/> Default: Clean after 3 days <input type="checkbox"/> Archive (Fee may apply)

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. (uHg)	Field Initial Time	Final Vac. (uHg)	Field Final Time	ANALYSIS REQUESTED				Notes	
										TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH		
WGAC-1-EFF-100021	01	3390	299	IA / SG	10/12/21	29	1201	5	1207	X			X		
WGAC-1-INF-100021	02	4179	204	IA / SG	10/12/21	29	1210	5	1214	X			X		
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											

Samples received at 200C

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by:	<u>Monique Rute</u>	MOIQUE RUTE	ASPECT	10/12/21	1312		
Received by:	<u>Jenny Porter</u>	Jenny Porter	FEBI	10/16/21	1312		
Relinquished by:							
Received by:							

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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fbi@isomedia.com
www.friedmanandbruya.com

November 1, 2021

Jeremy Porter, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Porter:

Included are the results from the testing of material submitted on October 21, 2021 from the Spic'N Span 060172, F&BI 110422 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Aspect Data
ASP1101R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 21, 2020 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Spic'N Span 060172, F&BI 110422 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
110422 -01	VGAC-EFF-1-102121
110422 -02	VGAC-INF-1-102121

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

The concentration of several analytes exceeded the calibration range of the instrument. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-EFF-1-102121	Client:	Aspect Consulting, LLC
Date Received:	10/21/21	Project:	060172, F&BI 110422
Date Collected:	10/21/21	Lab ID:	110422-01 1/5.9
Date Analyzed:	10/23/21	Data File:	102235.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	91	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	900
APH EC9-12 aliphatics	720
APH EC9-10 aromatics	160

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-INF-1-102121	Client:	Aspect Consulting, LLC
Date Received:	10/21/21	Project:	060172, F&BI 110422
Date Collected:	10/21/21	Lab ID:	110422-02 1/44
Date Analyzed:	10/23/21	Data File:	102236.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	109	70	130

Compounds:	Concentration
	ug/m3

APH EC5-8 aliphatics	34,000 ve
APH EC9-12 aliphatics	320,000 ve
APH EC9-10 aromatics	7,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	060172, F&BI 110422
Date Collected:	Not Applicable	Lab ID:	01-2391 MB
Date Analyzed:	10/22/21	Data File:	102210.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	83	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-EFF-1-102121	Client:	Aspect Consulting, LLC
Date Received:	10/21/21	Project:	060172, F&BI 110422
Date Collected:	10/21/21	Lab ID:	110422-01 1/5.9
Date Analyzed:	10/23/21	Data File:	102235.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	160 ve	93 ve	1,2-Dichloropropane	<1.4	<0.29
Dichlorodifluoromethane	4.7	0.94	1,4-Dioxane	<2.1	<0.59
Chloromethane	<22	<11	2,2,4-Trimethylpentane	<28	<5.9
F-114	<4.1	<0.59	Methyl methacrylate	<24	<5.9
Vinyl chloride	6.3	2.5	Heptane	<24	<5.9
1,3-Butadiene	<0.26	<0.12	Bromodichloromethane	<0.4	<0.059
Butane	<28	<12	Trichloroethene	<0.63	<0.12
Bromomethane	<14	<3.5	cis-1,3-Dichloropropene	<2.7	<0.59
Chloroethane	<16	<5.9	4-Methyl-2-pentanone	33	8.0
Vinyl bromide	<2.6	<0.59	trans-1,3-Dichloropropene	<2.7	<0.59
Ethanol	440 ve	240 ve	Toluene	120	31
Acrolein	0.85	0.37	1,1,2-Trichloroethane	<0.32	<0.059
Pentane	<17	<5.9	2-Hexanone	<24	<5.9
Trichlorofluoromethane	<13	<2.4	Tetrachloroethene	<40	<5.9
Acetone	66	28	Dibromochloromethane	<0.5	<0.059
2-Propanol	<51	<21	1,2-Dibromoethane (EDB)	<0.45	<0.059
1,1-Dichloroethene	<2.3	<0.59	Chlorobenzene	<2.7	<0.59
trans-1,2-Dichloroethene	<2.3	<0.59	Ethylbenzene	7.2	1.7
Methylene chloride	<200	<59	1,1,2,2-Tetrachloroethane	<0.81	<0.12
t-Butyl alcohol (TBA)	<72	<24	Nonane	<31	<5.9
3-Chloropropene	<9.2	<2.9	Isopropylbenzene	<15	<2.9
CFC-113	<4.5	<0.59	2-Chlorotoluene	<31	<5.9
Carbon disulfide	<37	<12	Propylbenzene	<15	<2.9
Methyl t-butyl ether (MTBE)	<11	<2.9	4-Ethyltoluene	<15	<2.9
Vinyl acetate	<42	<12	m,p-Xylene	31	7.2
1,1-Dichloroethane	<2.4	<0.59	o-Xylene	14	3.2
cis-1,2-Dichloroethene	<2.3	<0.59	Styrene	12	2.9
Hexane	45	13	Bromoform	<12	<1.2
Chloroform	<0.29	<0.059	Benzyl chloride	<0.31	<0.059
Ethyl acetate	<43	<12	1,3,5-Trimethylbenzene	<15	<2.9
Tetrahydrofuran	<3.5	<1.2	1,2,4-Trimethylbenzene	18	3.7
2-Butanone (MEK)	<17	<5.9	1,3-Dichlorobenzene	<3.5	<0.59
1,2-Dichloroethane (EDC)	0.64	0.16	1,4-Dichlorobenzene	<1.3	<0.22
1,1,1-Trichloroethane	<3.2	<0.59	1,2-Dichlorobenzene	<3.5	<0.59
Carbon tetrachloride	<1.9	<0.29	1,2,4-Trichlorobenzene	<4.4	<0.59
Benzene	<1.9	<0.59	Naphthalene	37	7.0
Cyclohexane	<41	<12	Hexachlorobutadiene	<1.3	<0.12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-INF-1-102121	Client:	Aspect Consulting, LLC
Date Received:	10/21/21	Project:	060172, F&BI 110422
Date Collected:	10/21/21	Lab ID:	110422-02 1/44
Date Analyzed:	10/23/21	Data File:	102236.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	127	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	130	76	1,2-Dichloropropane	12	2.6
Dichlorodifluoromethane	<22	<4.4	1,4-Dioxane	<16	<4.4
Chloromethane	<160	<79	2,2,4-Trimethylpentane	<210	<44
F-114	<31	<4.4	Methyl methacrylate	<180	<44
Vinyl chloride	<11	<4.4	Heptane	<180	<44
1,3-Butadiene	<1.9	<0.88	Bromodichloromethane	<2.9	<0.44
Butane	<210	<88	Trichloroethene	770	140
Bromomethane	<100	<26	cis-1,3-Dichloropropene	<20	<4.4
Chloroethane	<120	<44	4-Methyl-2-pentanone	<180	<44
Vinyl bromide	<19	<4.4	trans-1,3-Dichloropropene	<20	<4.4
Ethanol	480	260	Toluene	<830	<220
Acrolein	46	20	1,1,2-Trichloroethane	<2.4	<0.44
Pentane	<130	<44	2-Hexanone	<180	<44
Trichlorofluoromethane	<99	<18	Tetrachloroethene	8,200 ve	1,200 ve
Acetone	9,700 ve	4,100 ve	Dibromochloromethane	<3.7	<0.44
2-Propanol	<380	<150	1,2-Dibromoethane (EDB)	<3.4	<0.44
1,1-Dichloroethene	<17	<4.4	Chlorobenzene	<20	<4.4
trans-1,2-Dichloroethene	28	7.1	Ethylbenzene	120	28
Methylene chloride	<1,500	<440	1,1,2,2-Tetrachloroethane	<6	<0.88
t-Butyl alcohol (TBA)	<530	<180	Nonane	<230	<44
3-Chloropropene	<69	<22	Isopropylbenzene	<110	<22
CFC-113	<34	<4.4	2-Chlorotoluene	<230	<44
Carbon disulfide	<270	<88	Propylbenzene	210	43
Methyl t-butyl ether (MTBE)	<79	<22	4-Ethyltoluene	120	23
Vinyl acetate	<310	<88	m,p-Xylene	300	70
1,1-Dichloroethane	<18	<4.4	o-Xylene	120	27
cis-1,2-Dichloroethene	370	93	Styrene	<37	<8.8
Hexane	<160	<44	Bromoform	<91	<8.8
Chloroform	12	2.5	Benzyl chloride	<2.3	<0.44
Ethyl acetate	<320	<88	1,3,5-Trimethylbenzene	<110	<22
Tetrahydrofuran	<26	<8.8	1,2,4-Trimethylbenzene	560	110
2-Butanone (MEK)	1,500	520	1,3-Dichlorobenzene	<26	<4.4
1,2-Dichloroethane (EDC)	66	16	1,4-Dichlorobenzene	13	2.2
1,1,1-Trichloroethane	<24	<4.4	1,2-Dichlorobenzene	29	4.8
Carbon tetrachloride	<14	<2.2	1,2,4-Trichlorobenzene	<33	<4.4
Benzene	100	32	Naphthalene	1,200	220
Cyclohexane	<300	<88	Hexachlorobutadiene	<9.4	<0.88

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	060172, F&BI 110422
Date Collected:	Not Applicable	Lab ID:	01-2391 MB
Date Analyzed:	10/22/21	Data File:	102210.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	84	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.49	<0.1	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<0.7	<0.1	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<2.3	<0.6	cis-1,3-Dichloropropene	<0.45	<0.1
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<4.1	<1
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<19	<5
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<3	<1	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<1.6	<0.5	Isopropylbenzene	<2.5	<0.5
CFC-113	<0.77	<0.1	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<2.5	<0.5
Methyl t-butyl ether (MTBE)	<1.8	<0.5	4-Ethyltoluene	<2.5	<0.5
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<2.5	<0.5
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<2.5	<0.5
2-Butanone (MEK)	<2.9	<1	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/01/21

Date Received: 10/21/21

Project: Spic'N Span 060172, F&BI 110422

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 110450-01 1/6.7 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	640	630	2
APH EC9-12 aliphatics	ug/m3	2,800	2,800	0
APH EC9-10 aromatics	ug/m3	<170	<170	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	110	70-130
APH EC9-12 aliphatics	ug/m3	67	111	70-130
APH EC9-10 aromatics	ug/m3	67	96	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/01/21

Date Received: 10/21/21

Project: Spic'N Span 060172, F&BI 110422

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 110450-01 1/6.7 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	<8.1	<8.1	nm
Dichlorodifluoromethane	ug/m3	100	100	0
Chloromethane	ug/m3	<25	<25	nm
F-114	ug/m3	<4.7	<4.7	nm
Vinyl chloride	ug/m3	<1.7	<1.7	nm
1,3-Butadiene	ug/m3	0.59	0.59	0
Butane	ug/m3	<32	<32	nm
Bromomethane	ug/m3	<16	<16	nm
Chloroethane	ug/m3	<18	<18	nm
Vinyl bromide	ug/m3	<2.9	<2.9	nm
Ethanol	ug/m3	82	90	9
Acrolein	ug/m3	1.4	1.3	7
Pentane	ug/m3	<20	<20	nm
Trichlorofluoromethane	ug/m3	<15	<15	nm
Acetone	ug/m3	280	280	0
2-Propanol	ug/m3	<58	<58	nm
1,1-Dichloroethene	ug/m3	<2.7	<2.7	nm
trans-1,2-Dichloroethene	ug/m3	<2.7	<2.7	nm
Methylene chloride	ug/m3	<230	<230	nm
t-Butyl alcohol (TBA)	ug/m3	<81	<81	nm
3-Chloropropene	ug/m3	<10	<10	nm
CFC-113	ug/m3	<5.1	<5.1	nm
Carbon disulfide	ug/m3	<42	<42	nm
Methyl t-butyl ether (MTBE)	ug/m3	<12	<12	nm
Vinyl acetate	ug/m3	<47	<47	nm
1,1-Dichloroethane	ug/m3	<2.7	<2.7	nm
cis-1,2-Dichloroethene	ug/m3	<2.7	<2.7	nm
Hexane	ug/m3	<24	<24	nm
Chloroform	ug/m3	0.85	0.85	0
Ethyl acetate	ug/m3	<48	<48	nm
Tetrahydrofuran	ug/m3	<4	<4	nm
2-Butanone (MEK)	ug/m3	<20	<20	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.27	<0.27	nm
1,1,1-Trichloroethane	ug/m3	<3.7	<3.7	nm
Carbon tetrachloride	ug/m3	<2.1	<2.1	nm
Benzene	ug/m3	2.6	2.6	0
Cyclohexane	ug/m3	<46	<46	nm
1,2-Dichloropropane	ug/m3	<1.5	<1.5	nm
1,4-Dioxane	ug/m3	<2.4	<2.4	nm
2,2,4-Trimethylpentane	ug/m3	<31	<31	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/01/21

Date Received: 10/21/21

Project: Spic'N Span 060172, F&BI 110422

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 110450-01 1/6.7 (Duplicate, continued)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Methyl methacrylate	ug/m3	<27	<27	nm
Heptane	ug/m3	<27	<27	nm
Bromodichloromethane	ug/m3	<0.45	<0.45	nm
Trichloroethene	ug/m3	1.9	1.9	0
cis-1,3-Dichloropropene	ug/m3	<3	<3	nm
4-Methyl-2-pentanone	ug/m3	<27	<27	nm
trans-1,3-Dichloropropene	ug/m3	<3	<3	nm
Toluene	ug/m3	<130	<130	nm
1,1,2-Trichloroethane	ug/m3	<0.37	<0.37	nm
2-Hexanone	ug/m3	<27	<27	nm
Tetrachloroethene	ug/m3	<45	<45	nm
Dibromochloromethane	ug/m3	<0.57	<0.57	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.51	<0.51	nm
Chlorobenzene	ug/m3	<3.1	<3.1	nm
Ethylbenzene	ug/m3	<2.9	<2.9	nm
1,1,2,2-Tetrachloroethane	ug/m3	<0.92	<0.92	nm
Nonane	ug/m3	56	58	4
Isopropylbenzene	ug/m3	<16	<16	nm
2-Chlorotoluene	ug/m3	<35	<35	nm
Propylbenzene	ug/m3	<16	<16	nm
4-Ethyltoluene	ug/m3	<16	<16	nm
m,p-Xylene	ug/m3	9.8	10	2
o-Xylene	ug/m3	4.1	4.0	2
Styrene	ug/m3	<5.7	<5.7	nm
Bromoform	ug/m3	<14	<14	nm
Benzyl chloride	ug/m3	<0.35	<0.35	nm
1,3,5-Trimethylbenzene	ug/m3	<16	<16	nm
1,2,4-Trimethylbenzene	ug/m3	<16	<16	nm
1,3-Dichlorobenzene	ug/m3	<4	<4	nm
1,4-Dichlorobenzene	ug/m3	<1.5	<1.5	nm
1,2-Dichlorobenzene	ug/m3	<4	<4	nm
1,2,4-Trichlorobenzene	ug/m3	<5	<5	nm
Naphthalene	ug/m3	<1.8	<1.8	nm
Hexachlorobutadiene	ug/m3	<1.4	<1.4	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/01/21

Date Received: 10/21/21

Project: Spic'N Span 060172, F&BI 110422

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Propene	ug/m3	23	120	70-130
Dichlorodifluoromethane	ug/m3	67	98	70-130
Chloromethane	ug/m3	28	97	70-130
F-114	ug/m3	94	102	70-130
Vinyl chloride	ug/m3	35	91	70-130
1,3-Butadiene	ug/m3	30	79	70-130
Butane	ug/m3	32	82	70-130
Bromomethane	ug/m3	52	115	70-130
Chloroethane	ug/m3	36	97	70-130
Vinyl bromide	ug/m3	59	92	70-130
Ethanol	ug/m3	25	80	70-130
Acrolein	ug/m3	31	81	70-130
Pentane	ug/m3	40	77	70-130
Trichlorofluoromethane	ug/m3	76	109	70-130
Acetone	ug/m3	32	97	70-130
2-Propanol	ug/m3	33	87	70-130
1,1-Dichloroethene	ug/m3	54	98	70-130
trans-1,2-Dichloroethene	ug/m3	54	92	70-130
Methylene chloride	ug/m3	94	99	70-130
t-Butyl alcohol (TBA)	ug/m3	41	88	70-130
3-Chloropropene	ug/m3	42	85	70-130
CFC-113	ug/m3	100	105	70-130
Carbon disulfide	ug/m3	42	104	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	80	70-130
Vinyl acetate	ug/m3	48	75	70-130
1,1-Dichloroethane	ug/m3	55	98	70-130
cis-1,2-Dichloroethene	ug/m3	54	89	70-130
Hexane	ug/m3	48	76	70-130
Chloroform	ug/m3	66	97	70-130
Ethyl acetate	ug/m3	49	89	70-130
Tetrahydrofuran	ug/m3	40	82	70-130
2-Butanone (MEK)	ug/m3	40	92	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	96	70-130
1,1,1-Trichloroethane	ug/m3	74	102	70-130
Carbon tetrachloride	ug/m3	85	103	70-130
Benzene	ug/m3	43	88	70-130
Cyclohexane	ug/m3	46	76	70-130
1,2-Dichloropropane	ug/m3	62	111	70-130
1,4-Dioxane	ug/m3	49	98	70-130
2,2,4-Trimethylpentane	ug/m3	63	95	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/01/21

Date Received: 10/21/21

Project: Spic'N Span 060172, F&BI 110422

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (continued)

Analyte	Reporting Units	Spike Level	Percent	Acceptance Criteria
			Recovery LCS	
Methyl methacrylate	ug/m3	55	102	70-130
Heptane	ug/m3	55	90	70-130
Bromodichloromethane	ug/m3	90	111	70-130
Trichloroethene	ug/m3	73	116	70-130
cis-1,3-Dichloropropene	ug/m3	61	111	70-130
4-Methyl-2-pentanone	ug/m3	55	114	70-130
trans-1,3-Dichloropropene	ug/m3	61	106	70-130
Toluene	ug/m3	51	101	70-130
1,1,2-Trichloroethane	ug/m3	74	121	70-130
2-Hexanone	ug/m3	55	102	70-130
Tetrachloroethene	ug/m3	92	120	70-130
Dibromochloromethane	ug/m3	120	114	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	116	70-130
Chlorobenzene	ug/m3	62	113	70-130
Ethylbenzene	ug/m3	59	84	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	112	70-130
Nonane	ug/m3	71	86	70-130
Isopropylbenzene	ug/m3	66	100	70-130
2-Chlorotoluene	ug/m3	70	98	70-130
Propylbenzene	ug/m3	66	95	70-130
4-Ethyltoluene	ug/m3	66	90	70-130
m,p-Xylene	ug/m3	120	91	70-130
o-Xylene	ug/m3	59	95	70-130
Styrene	ug/m3	58	94	70-130
Bromoform	ug/m3	140	120	70-130
Benzyl chloride	ug/m3	70	109	70-130
1,3,5-Trimethylbenzene	ug/m3	66	89	70-130
1,2,4-Trimethylbenzene	ug/m3	66	88	70-130
1,3-Dichlorobenzene	ug/m3	81	113	70-130
1,4-Dichlorobenzene	ug/m3	81	101	70-130
1,2-Dichlorobenzene	ug/m3	81	107	70-130
1,2,4-Trichlorobenzene	ug/m3	100	99	70-130
Naphthalene	ug/m3	71	97	70-130
Hexachlorobutadiene	ug/m3	140	110	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

110422

SAMPLE CHAIN OF CUSTODY

ME 10/21/21

Page # 1 of 1

Report To Jeremy Pater
 Company Aspect Consulting
 Address 710 2nd Ave Suite 550
 City, State, ZIP Seattle, WA 98104
 Phone 206.740.2129 Email jpater@aspectconsulting.com

SAMPLERS (signature) <u>Monique Rutte</u>	
PROJECT NAME & ADDRESS	PO #
<u>Spic' N Span</u>	<u>0600172</u>
NOTES:	INVOICE TO
<u>cm</u>	

TURNAROUND TIME

Standard
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Default: Clean after 3 days
 Archive (Fee may apply)

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. (Hg)	Field Initial Time	Final Vac. (Hg)	Field Final Time	ANALYSIS REQUESTED					Notes	
										TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	Helium		
VEAL-EFF-2-102121	01	8529	242	IA / SG	10/21/21	29	1216	5	1221	X						
VEAL-INF-1-102121	02	8207	301	IA / SG	↓	30	1223	5	1227	X						
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												

Samples received at -19 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>Jeremy Pater</u>	<u>Monique Rutte</u>	<u>Aspect</u>	<u>10/21/21</u>	<u>1334</u>
<u>Monique Rutte</u>	<u>Monique Rutte</u>	<u>FC BT</u>	<u>10/21/21</u>	<u>1334</u>
Received by:				

Friedman & Bruja, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 16, 2021

Jeremy Porter, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Porter:

Included are the results from the testing of material submitted on November 5, 2021 from the Spic'n Span 060172, F&BI 111134 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Aspect Data
ASP1116R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 5, 2021 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Spic'n Span 060172, F&BI 111134 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
111134 -01	VGAC-4-INF-110521
111134 -02	VGAC-4-EFF-110521

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

The concentration of several analytes exceeded the calibration range of the instrument. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-4-INF-110521	Client:	Aspect Consulting, LLC
Date Received:	11/05/21	Project:	Spic'n Span 060172, F&BI 111134
Date Collected:	11/05/21	Lab ID:	111134-01 1/8.9
Date Analyzed:	11/09/21	Data File:	110824.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	9,500 ve
APH EC9-12 aliphatics	83,000 ve
APH EC9-10 aromatics	2,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-4-EFF-110521	Client:	Aspect Consulting, LLC
Date Received:	11/05/21	Project:	Spic'n Span 060172, F&BI 111134
Date Collected:	11/05/21	Lab ID:	111134-02 1/5.7
Date Analyzed:	11/08/21	Data File:	110822.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	83	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<430
APH EC9-12 aliphatics	<140
APH EC9-10 aromatics	<140

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic'n Span 060172, F&BI 111134
Date Collected:	Not Applicable	Lab ID:	01-2565 MB
Date Analyzed:	11/08/21	Data File:	110810.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	81	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-4-INF-110521	Client:	Aspect Consulting, LLC
Date Received:	11/05/21	Project:	Spic'n Span 060172, F&BI 111134
Date Collected:	11/05/21	Lab ID:	111134-01 1/8.9
Date Analyzed:	11/09/21	Data File:	110824.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	118	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	90	52	1,2-Dichloropropane	3.0	0.66
Dichlorodifluoromethane	<4.4	<0.89	1,4-Dioxane	<3.2	<0.89
Chloromethane	<33	<16	2,2,4-Trimethylpentane	<42	<8.9
F-114	<6.2	<0.89	Methyl methacrylate	<36	<8.9
Vinyl chloride	<2.3	<0.89	Heptane	<36	<8.9
1,3-Butadiene	<0.39	<0.18	Bromodichloromethane	<0.6	<0.089
Butane	<42	<18	Trichloroethene	310	57
Bromomethane	<21	<5.3	cis-1,3-Dichloropropene	<4	<0.89
Chloroethane	<23	<8.9	4-Methyl-2-pentanone	<36	<8.9
Vinyl bromide	<3.9	<0.89	trans-1,3-Dichloropropene	<4	<0.89
Ethanol	300 ve	160 ve	Toluene	<170	<44
Acrolein	50	22	1,1,2-Trichloroethane	<0.49	<0.089
Pentane	46	16	2-Hexanone	<36	<8.9
Trichlorofluoromethane	<20	<3.6	Tetrachloroethene	3,100 ve	460 ve
Acetone	8,100 ve	3,400 ve	Dibromochloromethane	<0.76	<0.089
2-Propanol	<77	<31	1,2-Dibromoethane (EDB)	<0.68	<0.089
1,1-Dichloroethene	<3.5	<0.89	Chlorobenzene	<4.1	<0.89
trans-1,2-Dichloroethene	12	3.0	Ethylbenzene	45	10
Methylene chloride	<310	<89	1,1,2,2-Tetrachloroethane	<1.2	<0.18
t-Butyl alcohol (TBA)	<110	<36	Nonane	<47	<8.9
3-Chloropropene	<14	<4.4	Isopropylbenzene	27	5.4
CFC-113	<6.8	<0.89	2-Chlorotoluene	<46	<8.9
Carbon disulfide	110	35	Propylbenzene	60	12
Methyl t-butyl ether (MTBE)	<16	<4.4	4-Ethyltoluene	48	9.7
Vinyl acetate	<63	<18	m,p-Xylene	110	25
1,1-Dichloroethane	<3.6	<0.89	o-Xylene	38	8.7
cis-1,2-Dichloroethene	180	46	Styrene	<7.6	<1.8
Hexane	<31	<8.9	Bromoform	<18	<1.8
Chloroform	10	2.1	Benzyl chloride	<0.46	<0.089
Ethyl acetate	<64	<18	1,3,5-Trimethylbenzene	42	8.5
Tetrahydrofuran	9.6	3.2	1,2,4-Trimethylbenzene	200	41
2-Butanone (MEK)	1,400 ve	480 ve	1,3-Dichlorobenzene	<5.4	<0.89
1,2-Dichloroethane (EDC)	17	4.3	1,4-Dichlorobenzene	5.9	0.98
1,1,1-Trichloroethane	<4.9	<0.89	1,2-Dichlorobenzene	15	2.5
Carbon tetrachloride	<2.8	<0.44	1,2,4-Trichlorobenzene	<6.6	<0.89
Benzene	63	20	Naphthalene	820 ve	160 ve
Cyclohexane	<61	<18	Hexachlorobutadiene	<1.9	<0.18

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-4-EFF-110521	Client:	Aspect Consulting, LLC
Date Received:	11/05/21	Project:	Spic'n Span 060172, F&BI 111134
Date Collected:	11/05/21	Lab ID:	111134-02 1/5.7
Date Analyzed:	11/08/21	Data File:	110822.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	91	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	92	54	1,2-Dichloropropane	<1.3	<0.28
Dichlorodifluoromethane	4.3	0.86	1,4-Dioxane	<2.1	<0.57
Chloromethane	<21	<10	2,2,4-Trimethylpentane	<27	<5.7
F-114	<4	<0.57	Methyl methacrylate	<23	<5.7
Vinyl chloride	3.2	1.3	Heptane	<23	<5.7
1,3-Butadiene	<0.25	<0.11	Bromodichloromethane	<0.38	<0.057
Butane	<27	<11	Trichloroethene	<0.61	<0.11
Bromomethane	<13	<3.4	cis-1,3-Dichloropropene	<2.6	<0.57
Chloroethane	<15	<5.7	4-Methyl-2-pentanone	<23	<5.7
Vinyl bromide	<2.5	<0.57	trans-1,3-Dichloropropene	<2.6	<0.57
Ethanol	240 ve	130 ve	Toluene	<110	<28
Acrolein	<0.65	<0.28	1,1,2-Trichloroethane	<0.31	<0.057
Pentane	<17	<5.7	2-Hexanone	<23	<5.7
Trichlorofluoromethane	<13	<2.3	Tetrachloroethene	<39	<5.7
Acetone	<27	<11	Dibromochloromethane	<0.49	<0.057
2-Propanol	<49	<20	1,2-Dibromoethane (EDB)	<0.44	<0.057
1,1-Dichloroethene	<2.3	<0.57	Chlorobenzene	<2.6	<0.57
trans-1,2-Dichloroethene	<2.3	<0.57	Ethylbenzene	<2.5	<0.57
Methylene chloride	<200	<57	1,1,2,2-Tetrachloroethane	<0.78	<0.11
t-Butyl alcohol (TBA)	<69	<23	Nonane	<30	<5.7
3-Chloropropene	<8.9	<2.8	Isopropylbenzene	<14	<2.8
CFC-113	<4.4	<0.57	2-Chlorotoluene	<30	<5.7
Carbon disulfide	<36	<11	Propylbenzene	<14	<2.8
Methyl t-butyl ether (MTBE)	<10	<2.8	4-Ethyltoluene	<14	<2.8
Vinyl acetate	<40	<11	m,p-Xylene	<5	<1.1
1,1-Dichloroethane	<2.3	<0.57	o-Xylene	<2.5	<0.57
cis-1,2-Dichloroethene	<2.3	<0.57	Styrene	<4.9	<1.1
Hexane	<20	<5.7	Bromoform	<12	<1.1
Chloroform	<0.28	<0.057	Benzyl chloride	<0.3	<0.057
Ethyl acetate	<41	<11	1,3,5-Trimethylbenzene	<14	<2.8
Tetrahydrofuran	<3.4	<1.1	1,2,4-Trimethylbenzene	<14	<2.8
2-Butanone (MEK)	<17	<5.7	1,3-Dichlorobenzene	<3.4	<0.57
1,2-Dichloroethane (EDC)	<0.23	<0.057	1,4-Dichlorobenzene	<1.3	<0.22
1,1,1-Trichloroethane	<3.1	<0.57	1,2-Dichlorobenzene	<3.4	<0.57
Carbon tetrachloride	<1.8	<0.28	1,2,4-Trichlorobenzene	<4.2	<0.57
Benzene	<1.8	<0.57	Naphthalene	<1.5	<0.28
Cyclohexane	<39	<11	Hexachlorobutadiene	<1.2	<0.11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Spic'n Span 060172, F&BI 111134
Date Collected:	Not Applicable	Lab ID:	01-2565 MB
Date Analyzed:	11/08/21	Data File:	110810.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	88	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.49	<0.1	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<0.7	<0.1	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<2.3	<0.6	cis-1,3-Dichloropropene	<0.45	<0.1
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<4.1	<1
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<19	<5
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<3	<1	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<1.6	<0.5	Isopropylbenzene	<2.5	<0.5
CFC-113	<0.77	<0.1	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<2.5	<0.5
Methyl t-butyl ether (MTBE)	<1.8	<0.5	4-Ethyltoluene	<2.5	<0.5
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<2.5	<0.5
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<2.5	<0.5
2-Butanone (MEK)	<2.9	<1	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/16/21

Date Received: 11/05/21

Project: Spic'n Span 060172, F&BI 111134

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 111134-02 1/5.7 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	<430	<430	nm
APH EC9-12 aliphatics	ug/m3	<140	<140	nm
APH EC9-10 aromatics	ug/m3	<140	<140	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	104	70-130
APH EC9-12 aliphatics	ug/m3	67	103	70-130
APH EC9-10 aromatics	ug/m3	67	94	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/16/21

Date Received: 11/05/21

Project: Spic'n Span 060172, F&BI 111134

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 111134-02 1/5.7 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	92	84	9
Dichlorodifluoromethane	ug/m3	4.3	4.3	0
Chloromethane	ug/m3	<21	<21	nm
F-114	ug/m3	<4	<4	nm
Vinyl chloride	ug/m3	3.2	2.9	10
1,3-Butadiene	ug/m3	<0.25	<0.25	nm
Butane	ug/m3	<27	<27	nm
Bromomethane	ug/m3	<13	<13	nm
Chloroethane	ug/m3	<15	<15	nm
Vinyl bromide	ug/m3	<2.5	<2.5	nm
Ethanol	ug/m3	240	250	4
Acrolein	ug/m3	<0.65	<0.65	nm
Pentane	ug/m3	<17	<17	nm
Trichlorofluoromethane	ug/m3	<13	<13	nm
Acetone	ug/m3	<27	<27	nm
2-Propanol	ug/m3	<49	<49	nm
1,1-Dichloroethene	ug/m3	<2.3	<2.3	nm
trans-1,2-Dichloroethene	ug/m3	<2.3	<2.3	nm
Methylene chloride	ug/m3	<200	<200	nm
t-Butyl alcohol (TBA)	ug/m3	<69	<69	nm
3-Chloropropene	ug/m3	<8.9	<8.9	nm
CFC-113	ug/m3	<4.4	<4.4	nm
Carbon disulfide	ug/m3	<36	<36	nm
Methyl t-butyl ether (MTBE)	ug/m3	<10	<10	nm
Vinyl acetate	ug/m3	<40	<40	nm
1,1-Dichloroethane	ug/m3	<2.3	<2.3	nm
cis-1,2-Dichloroethene	ug/m3	<2.3	<2.3	nm
Hexane	ug/m3	<20	<20	nm
Chloroform	ug/m3	<0.28	<0.28	nm
Ethyl acetate	ug/m3	<41	<41	nm
Tetrahydrofuran	ug/m3	<3.4	<3.4	nm
2-Butanone (MEK)	ug/m3	<17	<17	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.23	<0.23	nm
1,1,1-Trichloroethane	ug/m3	<3.1	<3.1	nm
Carbon tetrachloride	ug/m3	<1.8	<1.8	nm
Benzene	ug/m3	<1.8	<1.8	nm
Cyclohexane	ug/m3	<39	<39	nm
1,2-Dichloropropane	ug/m3	<1.3	<1.3	nm
1,4-Dioxane	ug/m3	<2.1	<2.1	nm
2,2,4-Trimethylpentane	ug/m3	<27	<27	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/16/21

Date Received: 11/05/21

Project: Spic'n Span 060172, F&BI 111134

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 111134-02 1/5.7 (Duplicate) (continued)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Methyl methacrylate	ug/m3	<23	<23	nm
Heptane	ug/m3	<23	<23	nm
Bromodichloromethane	ug/m3	<0.38	<0.38	nm
Trichloroethene	ug/m3	<0.61	<0.61	nm
cis-1,3-Dichloropropene	ug/m3	<2.6	<2.6	nm
4-Methyl-2-pentanone	ug/m3	<23	<23	nm
trans-1,3-Dichloropropene	ug/m3	<2.6	<2.6	nm
Toluene	ug/m3	<110	<110	nm
1,1,2-Trichloroethane	ug/m3	<0.31	<0.31	nm
2-Hexanone	ug/m3	<23	<23	nm
Tetrachloroethene	ug/m3	<39	<39	nm
Dibromochloromethane	ug/m3	<0.49	<0.49	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.44	<0.44	nm
Chlorobenzene	ug/m3	<2.6	<2.6	nm
Ethylbenzene	ug/m3	<2.5	<2.5	nm
1,1,2,2-Tetrachloroethane	ug/m3	<0.78	<0.78	nm
Nonane	ug/m3	<30	<30	nm
Isopropylbenzene	ug/m3	<14	<14	nm
2-Chlorotoluene	ug/m3	<30	<30	nm
Propylbenzene	ug/m3	<14	<14	nm
4-Ethyltoluene	ug/m3	<14	<14	nm
m,p-Xylene	ug/m3	<5	<5	nm
o-Xylene	ug/m3	<2.5	<2.5	nm
Styrene	ug/m3	<4.9	<4.9	nm
Bromoform	ug/m3	<12	<12	nm
Benzyl chloride	ug/m3	<0.3	<0.3	nm
1,3,5-Trimethylbenzene	ug/m3	<14	<14	nm
1,2,4-Trimethylbenzene	ug/m3	<14	<14	nm
1,3-Dichlorobenzene	ug/m3	<3.4	<3.4	nm
1,4-Dichlorobenzene	ug/m3	<1.3	<1.3	nm
1,2-Dichlorobenzene	ug/m3	<3.4	<3.4	nm
1,2,4-Trichlorobenzene	ug/m3	<4.2	<4.2	nm
Naphthalene	ug/m3	<1.5	<1.5	nm
Hexachlorobutadiene	ug/m3	<1.2	<1.2	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/16/21

Date Received: 11/05/21

Project: Spic'n Span 060172, F&BI 111134

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Propene	ug/m3	23	80	70-130
Dichlorodifluoromethane	ug/m3	67	103	70-130
Chloromethane	ug/m3	28	98	70-130
F-114	ug/m3	94	101	70-130
Vinyl chloride	ug/m3	35	95	70-130
1,3-Butadiene	ug/m3	30	100	70-130
Butane	ug/m3	32	104	70-130
Bromomethane	ug/m3	52	103	70-130
Chloroethane	ug/m3	36	102	70-130
Vinyl bromide	ug/m3	59	100	70-130
Ethanol	ug/m3	25	97	70-130
Acrolein	ug/m3	31	96	70-130
Pentane	ug/m3	40	97	70-130
Trichlorofluoromethane	ug/m3	76	103	70-130
Acetone	ug/m3	32	97	70-130
2-Propanol	ug/m3	33	100	70-130
1,1-Dichloroethene	ug/m3	54	101	70-130
trans-1,2-Dichloroethene	ug/m3	54	101	70-130
Methylene chloride	ug/m3	94	91	70-130
t-Butyl alcohol (TBA)	ug/m3	41	104	70-130
3-Chloropropene	ug/m3	42	98	70-130
CFC-113	ug/m3	100	102	70-130
Carbon disulfide	ug/m3	42	104	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	100	70-130
Vinyl acetate	ug/m3	48	97	70-130
1,1-Dichloroethane	ug/m3	55	102	70-130
cis-1,2-Dichloroethene	ug/m3	54	102	70-130
Hexane	ug/m3	48	98	70-130
Chloroform	ug/m3	66	100	70-130
Ethyl acetate	ug/m3	49	101	70-130
Tetrahydrofuran	ug/m3	40	99	70-130
2-Butanone (MEK)	ug/m3	40	103	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	102	70-130
1,1,1-Trichloroethane	ug/m3	74	102	70-130
Carbon tetrachloride	ug/m3	85	102	70-130
Benzene	ug/m3	43	101	70-130
Cyclohexane	ug/m3	46	92	70-130
1,2-Dichloropropane	ug/m3	62	95	70-130
1,4-Dioxane	ug/m3	49	103	70-130
2,2,4-Trimethylpentane	ug/m3	63	98	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/16/21

Date Received: 11/05/21

Project: Spic'n Span 060172, F&BI 111134

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (continued)

Analyte	Reporting Units	Spike Level	Percent	Acceptance Criteria
			Recovery LCS	
Methyl methacrylate	ug/m3	55	98	70-130
Heptane	ug/m3	55	95	70-130
Bromodichloromethane	ug/m3	90	98	70-130
Trichloroethene	ug/m3	73	96	70-130
cis-1,3-Dichloropropene	ug/m3	61	105	70-130
4-Methyl-2-pentanone	ug/m3	55	107	70-130
trans-1,3-Dichloropropene	ug/m3	61	100	70-130
Toluene	ug/m3	51	102	70-130
1,1,2-Trichloroethane	ug/m3	74	98	70-130
2-Hexanone	ug/m3	55	98	70-130
Tetrachloroethene	ug/m3	92	100	70-130
Dibromochloromethane	ug/m3	120	106	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	95	70-130
Chlorobenzene	ug/m3	62	107	70-130
Ethylbenzene	ug/m3	59	101	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	99	70-130
Nonane	ug/m3	71	93	70-130
Isopropylbenzene	ug/m3	66	101	70-130
2-Chlorotoluene	ug/m3	70	103	70-130
Propylbenzene	ug/m3	66	101	70-130
4-Ethyltoluene	ug/m3	66	93	70-130
m,p-Xylene	ug/m3	120	104	70-130
o-Xylene	ug/m3	59	109	70-130
Styrene	ug/m3	58	104	70-130
Bromoform	ug/m3	140	106	70-130
Benzyl chloride	ug/m3	70	110	70-130
1,3,5-Trimethylbenzene	ug/m3	66	103	70-130
1,2,4-Trimethylbenzene	ug/m3	66	100	70-130
1,3-Dichlorobenzene	ug/m3	81	106	70-130
1,4-Dichlorobenzene	ug/m3	81	104	70-130
1,2-Dichlorobenzene	ug/m3	81	105	70-130
1,2,4-Trichlorobenzene	ug/m3	100	98	70-130
Naphthalene	ug/m3	71	108	70-130
Hexachlorobutadiene	ug/m3	140	103	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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SAMPLE CHAIN OF CUSTODY

11-05-21

Page # 1 of 1

Report To Terenmy Parker

Company Aspect

Address 710 2nd Ave Ste 550

City, State, ZIP Seattle, WA 98104

Phone 206 7402129 Email tparker@aspectconsulting.com

SAMPLERS (signature) <u>Rachel</u>		PO #
PROJECT NAME & ADDRESS <u>Spexh span</u>		060172
NOTES:		INVOICE TO <u>AP</u>

TURNAROUND TIME	Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/>
Rush charges authorized by: _____	
SAMPLE DISPOSAL	
<input type="checkbox"/> Default: Clean after 3 days	
<input type="checkbox"/> Archive (Fee may apply)	

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. (uHg)	Field Initial Time	Final Vac. (uHg)	Field Final Time	ANALYSIS REQUESTED			Notes	
										TO15 Full Scan	TO15 BTEXN	TO15 cVOCs		
VGAC-4-INT-10521	01	3250	35	IA / <u>SG</u>	11/5/21	29	1134	5	1139				X	
VGAC-4-EFF-110521	02	3250	108	IA / <u>SG</u>	11/5/21	30	142	5	147				X	
				IA / SG										
				IA / SG										
				IA / SG										
				IA / SG										
				IA / SG										
				IA / SG										

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044
 FORMS\OCC\COC\TO-15.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>Rachel Corruell</u>	Rachel Corruell	Aspect	11/5/21	1710
<u>VINH</u>	VINH	FBI	11/5/21	1711
Received by:		Samples received at		

VGAC -- Carbon



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

November 2, 2021

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2110-257

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on October 27, 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,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 2, 2021
Samples Submitted: October 27, 2021
Laboratory Reference: 2110-257
Project: 060172

Case Narrative

Samples were collected on October 26, 2021 and received by the laboratory on October 27, 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: November 2, 2021
 Samples Submitted: October 27, 2021
 Laboratory Reference: 2110-257
 Project: 060172

VOLATILE ORGANICS EPA 8260D

Matrix: Carbon
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GAC-01-102621					
Laboratory ID:	10-257-01					
Vinyl Chloride	ND	0.072	EPA 8260D	10-27-21	10-27-21	
(trans) 1,2-Dichloroethene	0.10	0.072	EPA 8260D	10-27-21	10-27-21	
(cis) 1,2-Dichloroethene	0.50	0.072	EPA 8260D	10-27-21	10-27-21	
Trichloroethene	1.1	0.072	EPA 8260D	10-27-21	10-27-21	
Tetrachloroethene	44	1.4	EPA 8260D	10-27-21	10-27-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>117</i>	<i>71-130</i>				



Date of Report: November 2, 2021
 Samples Submitted: October 27, 2021
 Laboratory Reference: 2110-257
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	10-27-21	10-27-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-27-21	10-27-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-27-21	10-27-21	
Trichloroethene	ND	0.0010	EPA 8260D	10-27-21	10-27-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	10-27-21	10-27-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	92	74-131				
<i>Toluene-d8</i>	99	78-128				
<i>4-Bromofluorobenzene</i>	103	71-130				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1027S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0490	0.0474	0.0500	0.0500	98	95	71-131	3	19	
Benzene	0.0498	0.0488	0.0500	0.0500	100	98	73-124	2	18	
Trichloroethene	0.0532	0.0526	0.0500	0.0500	106	105	79-130	1	18	
Toluene	0.0498	0.0489	0.0500	0.0500	100	98	76-123	2	18	
Chlorobenzene	0.0509	0.0496	0.0500	0.0500	102	99	78-122	3	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					93	92	74-131			
<i>Toluene-d8</i>					100	99	78-128			
<i>4-Bromofluorobenzene</i>					106	105	71-130			





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





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

December 13, 2021

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2112-081

Dear Jeremy:

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

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: December 13, 2021
Samples Submitted: December 8, 2021
Laboratory Reference: 2112-081
Project: 060172

Case Narrative

Samples were collected on December 8, 2021 and received by the laboratory on December 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: December 13, 2021
 Samples Submitted: December 8, 2021
 Laboratory Reference: 2112-081
 Project: 060172

VOLATILE ORGANICS EPA 8260D

Matrix: Carbon
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	VGAC-1-120821					
Laboratory ID:	12-081-01					
Vinyl Chloride	ND	0.084	EPA 8260D	12-8-21	12-8-21	
(trans) 1,2-Dichloroethene	ND	0.084	EPA 8260D	12-8-21	12-8-21	
(cis) 1,2-Dichloroethene	7.9	0.84	EPA 8260D	12-8-21	12-9-21	
Trichloroethene	14	0.84	EPA 8260D	12-8-21	12-9-21	
Tetrachloroethene	110	0.84	EPA 8260D	12-8-21	12-9-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>125</i>	<i>71-130</i>				



Date of Report: December 13, 2021
 Samples Submitted: December 8, 2021
 Laboratory Reference: 2112-081
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208S1					
Vinyl Chloride	ND	0.0010	EPA 8260D	12-8-21	12-8-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-8-21	12-8-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-8-21	12-8-21	
Trichloroethene	ND	0.0010	EPA 8260D	12-8-21	12-8-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	12-8-21	12-8-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	105	74-131				
<i>Toluene-d8</i>	104	78-128				
<i>4-Bromofluorobenzene</i>	101	71-130				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1208S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0463	0.0470	0.0500	0.0500	93	94	71-131	2	19	
Benzene	0.0469	0.0488	0.0500	0.0500	94	98	73-124	4	18	
Trichloroethene	0.0472	0.0472	0.0500	0.0500	94	94	79-130	0	18	
Toluene	0.0450	0.0458	0.0500	0.0500	90	92	76-123	2	18	
Chlorobenzene	0.0471	0.0485	0.0500	0.0500	94	97	78-122	3	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					102	106	74-131			
<i>Toluene-d8</i>					103	101	78-128			
<i>4-Bromofluorobenzene</i>					104	105	71-130			





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MVA 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

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Company: ASPECT CONSULTING
 Project Number: 0600772
 Project Name: Spill n' Spun
 Project Manager: Jeremy Porter
 Sampled by: MMR

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	V6AC-2-120821	12/8/21	1140	Carbon

Number of Containers: 5

Laboratory Number: **12-081**

Method	Result
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260D	<u>* 8260D</u>
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	
<u>X</u> PCE, DCE, TCE, VC 8210D	
8210D	
8210D	
8210D	
% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
<u>Monique Porter</u>	<u>ASPECT</u>	<u>12/8/21</u>	<u>1340</u>	<u>* NO VOLATILES BY 8260D</u>
<u>Jeremy Porter</u>	<u>OSE</u>	<u>12/8/21</u>	<u>1340</u>	

Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Reviewed/Date _____

Reviewed/Date _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

February 7, 2022

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2202-002

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on February 1, 2022.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: February 7, 2022
Samples Submitted: February 1, 2022
Laboratory Reference: 2202-002
Project: 060172

Case Narrative

Samples were collected on February 1, 2022 and received by the laboratory on February 1, 2022. 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: February 7, 2022
 Samples Submitted: February 1, 2022
 Laboratory Reference: 2202-002
 Project: 060172

VOLATILE ORGANICS EPA 8260D

Matrix: Carbon
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	VGAC-1-020122					
Laboratory ID:	02-002-01					
Vinyl Chloride	ND	0.065	EPA 8260D	2-3-22	2-3-22	
(trans) 1,2-Dichloroethene	ND	0.065	EPA 8260D	2-3-22	2-3-22	
(cis) 1,2-Dichloroethene	ND	0.065	EPA 8260D	2-3-22	2-3-22	
Trichloroethene	0.24	0.065	EPA 8260D	2-3-22	2-3-22	
Tetrachloroethene	4.6	0.065	EPA 8260D	2-3-22	2-3-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	89	74-131				
<i>Toluene-d8</i>	99	78-128				
<i>4-Bromofluorobenzene</i>	118	71-130				



Date of Report: February 7, 2022
 Samples Submitted: February 1, 2022
 Laboratory Reference: 2202-002
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0203S2					
Vinyl Chloride	ND	0.0010	EPA 8260D	2-3-22	2-3-22	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-3-22	2-3-22	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	2-3-22	2-3-22	
Trichloroethene	ND	0.0010	EPA 8260D	2-3-22	2-3-22	
Tetrachloroethene	ND	0.0010	EPA 8260D	2-3-22	2-3-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	74-131				
<i>Toluene-d8</i>	98	78-128				
<i>4-Bromofluorobenzene</i>	98	71-130				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0203S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0516	0.0479	0.0500	0.0500	103	96	71-131	7	19	
Benzene	0.0498	0.0470	0.0500	0.0500	100	94	73-124	6	18	
Trichloroethene	0.0546	0.0517	0.0500	0.0500	109	103	79-130	5	18	
Toluene	0.0526	0.0493	0.0500	0.0500	105	99	76-123	6	18	
Chlorobenzene	0.0544	0.0520	0.0500	0.0500	109	104	78-122	5	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					96	92	74-131			
<i>Toluene-d8</i>					99	98	78-128			
<i>4-Bromofluorobenzene</i>					101	98	71-130			





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.
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 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
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 - 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.
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 - 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

Turnaround Request
 (in working days)
 (Check One)

Laboratory Number: **02-002**

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Company: **ASPECT CONSULTING**
 Project Number: **0100172**
 Project Name: **SPIC N' SPAN**
 Project Manager: **Jeremy Pater**
 Sampled by: **MMR & DRB**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	VGAC-1-020122	2/1/22	1300	soil

Number of Containers: **5**

<input type="checkbox"/>	NWTPH-HCID
<input type="checkbox"/>	NWTPH-Gx/BTEX
<input type="checkbox"/>	NWTPH-Gx
<input type="checkbox"/>	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)
<input type="checkbox"/>	Volatiles 8260C
<input type="checkbox"/>	Halogenated Volatiles 8260C
<input type="checkbox"/>	EDB EPA 8011 (Waters Only)
<input type="checkbox"/>	Semivolatiles 8270D/SIM (with low-level PAHs)
<input type="checkbox"/>	PAHs 8270D/SIM (low-level)
<input type="checkbox"/>	PCBs 8082A
<input type="checkbox"/>	Organochlorine Pesticides 8081B
<input type="checkbox"/>	Organophosphorus Pesticides 8270D/SIM
<input type="checkbox"/>	Chlorinated Acid Herbicides 8151A
<input type="checkbox"/>	Total RCRA Metals
<input type="checkbox"/>	Total MTCA Metals
<input type="checkbox"/>	TCLP Metals
<input type="checkbox"/>	HEM (oil and grease) 1664A
<input checked="" type="checkbox"/>	PCE, DCE, TCE, VC *
<input type="checkbox"/>	% Moisture

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	ASPECT	2/1/22	1300	* PCE, DCE, TCE, VC by 8260D
<i>[Signature]</i>	OSE	2/1/22	1300	

Relinquished

Received

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Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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February 1, 2022

Jeremy Porter, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Mr Porter:

Included are the results from the testing of material submitted on January 21, 2022 from the Spic n Span 060172, F&BI 201302 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Aspect Data
ASP0201R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 21, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Spic n Span 060172, F&BI 201302 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
201302 -01	VGAC-1-EFF-012022
201302 -02	VGAC-1-INF-012022

Individually certified canisters were provided for TO-15 sampling.

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

The concentration of several analytes exceeded the calibration range of the instrument. The data were flagged accordingly.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-EFF-012022	Client:	Aspect Consulting, LLC
Date Received:	01/21/22	Project:	060172, F&BI 201302
Date Collected:	01/20/22	Lab ID:	201302-01 1/5.8
Date Analyzed:	01/27/22	Data File:	012631.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	83	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	470
APH EC9-12 aliphatics	210
APH EC9-10 aromatics	<140

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	VGAC-1-INF-012022	Client:	Aspect Consulting, LLC
Date Received:	01/21/22	Project:	060172, F&BI 201302
Date Collected:	01/20/22	Lab ID:	201302-02 1/17
Date Analyzed:	01/27/22	Data File:	012633.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	89	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	6,700
APH EC9-12 aliphatics	34,000 ve
APH EC9-10 aromatics	490

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	060172, F&BI 201302
Date Collected:	Not Applicable	Lab ID:	02-0214 MB
Date Analyzed:	01/26/22	Data File:	012612.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	83	70	130

Compounds:	Concentration
	ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-EFF-012022	Client:	Aspect Consulting, LLC
Date Received:	01/21/22	Project:	060172, F&BI 201302
Date Collected:	01/20/22	Lab ID:	201302-01 1/5.8
Date Analyzed:	01/27/22	Data File:	012631.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	71	41	1,2-Dichloropropane	<1.3	<0.29
Dichlorodifluoromethane	<2.9	<0.58	1,4-Dioxane	<2.1	<0.58
Chloromethane	<22	<10	2,2,4-Trimethylpentane	<27	<5.8
F-114	<4.1	<0.58	Methyl methacrylate	<24	<5.8
Vinyl chloride	<1.5	<0.58	Heptane	<24	<5.8
1,3-Butadiene	<0.26	<0.12	Bromodichloromethane	<0.39	<0.058
Butane	<28	<12	Trichloroethene	<0.62	<0.12
Bromomethane	<14	<3.5	cis-1,3-Dichloropropene	<2.6	<0.58
Chloroethane	<15	<5.8	4-Methyl-2-pentanone	<24	<5.8
Vinyl bromide	<2.5	<0.58	trans-1,3-Dichloropropene	<2.6	<0.58
Ethanol	200 ve	110 ve	Toluene	<110	<29
Acrolein	<0.66	<0.29	1,1,2-Trichloroethane	<0.32	<0.058
Pentane	<17	<5.8	2-Hexanone	<24	<5.8
Trichlorofluoromethane	<13	<2.3	Tetrachloroethene	<39	<5.8
Acetone	810 ve	340 ve	Dibromochloromethane	<0.49	<0.058
2-Propanol	<50	<20	1,2-Dibromoethane (EDB)	<0.45	<0.058
1,1-Dichloroethene	<2.3	<0.58	Chlorobenzene	<2.7	<0.58
trans-1,2-Dichloroethene	<2.3	<0.58	Ethylbenzene	4.6	1.1
Methylene chloride	<200	<58	1,1,2,2-Tetrachloroethane	<0.8	<0.12
t-Butyl alcohol (TBA)	<70	<23	Nonane	<30	<5.8
3-Chloropropene	<9.1	<2.9	Isopropylbenzene	<14	<2.9
CFC-113	<4.4	<0.58	2-Chlorotoluene	<30	<5.8
Carbon disulfide	<36	<12	Propylbenzene	<14	<2.9
Methyl t-butyl ether (MTBE)	<10	<2.9	4-Ethyltoluene	<14	<2.9
Vinyl acetate	<41	<12	m,p-Xylene	17	3.8
1,1-Dichloroethane	<2.3	<0.58	o-Xylene	5.7	1.3
cis-1,2-Dichloroethene	<2.3	<0.58	Styrene	<4.9	<1.2
Hexane	<20	<5.8	Bromoform	<12	<1.2
Chloroform	<0.28	<0.058	Benzyl chloride	<0.3	<0.058
Ethyl acetate	<42	<12	1,3,5-Trimethylbenzene	<14	<2.9
Tetrahydrofuran	19	6.4	1,2,4-Trimethylbenzene	<14	<2.9
2-Butanone (MEK)	<17	<5.8	1,3-Dichlorobenzene	<3.5	<0.58
1,2-Dichloroethane (EDC)	<0.23	<0.058	1,4-Dichlorobenzene	<1.3	<0.22
1,1,1-Trichloroethane	<3.2	<0.58	1,2-Dichlorobenzene	<3.5	<0.58
Carbon tetrachloride	<1.8	<0.29	1,2,4-Trichlorobenzene	<4.3	<0.58
Benzene	<1.9	<0.58	Naphthalene	<1.5	<0.29
Cyclohexane	<40	<12	Hexachlorobutadiene	<1.2	<0.12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VGAC-1-INF-012022	Client:	Aspect Consulting, LLC
Date Received:	01/21/22	Project:	060172, F&BI 201302
Date Collected:	01/20/22	Lab ID:	201302-02 1/17
Date Analyzed:	01/27/22	Data File:	012633.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	99	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	67	39	1,2-Dichloropropane	<3.9	<0.85
Dichlorodifluoromethane	<8.4	<1.7	1,4-Dioxane	<6.1	<1.7
Chloromethane	<63	<31	2,2,4-Trimethylpentane	<79	<17
F-114	<12	<1.7	Methyl methacrylate	<70	<17
Vinyl chloride	<4.3	<1.7	Heptane	<70	<17
1,3-Butadiene	<0.75	<0.34	Bromodichloromethane	<1.1	<0.17
Butane	<81	<34	Trichloroethene	100	19
Bromomethane	<40	<10	cis-1,3-Dichloropropene	<7.7	<1.7
Chloroethane	<45	<17	4-Methyl-2-pentanone	<70	<17
Vinyl bromide	<7.4	<1.7	trans-1,3-Dichloropropene	<7.7	<1.7
Ethanol	280	150	Toluene	<320	<85
Acrolein	25	11	1,1,2-Trichloroethane	<0.93	<0.17
Pentane	<50	<17	2-Hexanone	<70	<17
Trichlorofluoromethane	<38	<6.8	Tetrachloroethene	850	120
Acetone	4,600 ve	1,900 ve	Dibromochloromethane	<1.4	<0.17
2-Propanol	<150	<59	1,2-Dibromoethane (EDB)	<1.3	<0.17
1,1-Dichloroethene	<6.7	<1.7	Chlorobenzene	<7.8	<1.7
trans-1,2-Dichloroethene	<6.7	<1.7	Ethylbenzene	23	5.2
Methylene chloride	<590	<170	1,1,2,2-Tetrachloroethane	<2.3	<0.34
t-Butyl alcohol (TBA)	<210	<68	Nonane	<89	<17
3-Chloropropene	<27	<8.5	Isopropylbenzene	<42	<8.5
CFC-113	<13	<1.7	2-Chlorotoluene	<88	<17
Carbon disulfide	<110	<34	Propylbenzene	<42	<8.5
Methyl t-butyl ether (MTBE)	<31	<8.5	4-Ethyltoluene	<42	<8.5
Vinyl acetate	<120	<34	m,p-Xylene	68	16
1,1-Dichloroethane	<6.9	<1.7	o-Xylene	27	6.1
cis-1,2-Dichloroethene	47	12	Styrene	<14	<3.4
Hexane	<60	<17	Bromoform	<35	<3.4
Chloroform	8.5	1.8	Benzyl chloride	<0.88	<0.17
Ethyl acetate	<120	<34	1,3,5-Trimethylbenzene	<42	<8.5
Tetrahydrofuran	33	11	1,2,4-Trimethylbenzene	46	9.3
2-Butanone (MEK)	760 ve	260 ve	1,3-Dichlorobenzene	<10	<1.7
1,2-Dichloroethane (EDC)	2.3	0.56	1,4-Dichlorobenzene	<3.9	<0.65
1,1,1-Trichloroethane	<9.3	<1.7	1,2-Dichlorobenzene	<10	<1.7
Carbon tetrachloride	<5.3	<0.85	1,2,4-Trichlorobenzene	<13	<1.7
Benzene	37	12	Naphthalene	270	52
Cyclohexane	<120	<34	Hexachlorobutadiene	<3.6	<0.34

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	060172, F&BI 201302
Date Collected:	Not Applicable	Lab ID:	02-0214 MB
Date Analyzed:	01/26/22	Data File:	012612.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration		Compounds:	Concentration	
	ug/m3	ppbv		ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.49	<0.1	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<0.7	<0.1	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<2.3	<0.6	cis-1,3-Dichloropropene	<0.45	<0.1
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<4.1	<1
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<19	<5
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<3	<1	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<1.6	<0.5	Isopropylbenzene	<2.5	<0.5
CFC-113	<0.77	<0.1	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<2.5	<0.5
Methyl t-butyl ether (MTBE)	<1.8	<0.5	4-Ethyltoluene	<2.5	<0.5
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<2.5	<0.5
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<2.5	<0.5
2-Butanone (MEK)	<2.9	<1	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/01/22

Date Received: 01/21/22

Project: Spic n Span 060172, F&BI 201302

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 201302-01 1/5.8 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	470	520	10
APH EC9-12 aliphatics	ug/m3	210	210	0
APH EC9-10 aromatics	ug/m3	<140	<140	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	77	70-130
APH EC9-12 aliphatics	ug/m3	67	95	70-130
APH EC9-10 aromatics	ug/m3	67	96	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/01/22

Date Received: 01/21/22

Project: Spic n Span 060172, F&BI 201302

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 201302-01 1/5.8 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	71	61	15
Dichlorodifluoromethane	ug/m3	<2.9	3.5	nm
Chloromethane	ug/m3	<22	<22	nm
F-114	ug/m3	<4.1	<4.1	nm
Vinyl chloride	ug/m3	<1.5	<1.5	nm
1,3-Butadiene	ug/m3	<0.26	<0.26	nm
Butane	ug/m3	<28	<28	nm
Bromomethane	ug/m3	<14	<14	nm
Chloroethane	ug/m3	<15	<15	nm
Vinyl bromide	ug/m3	<2.5	<2.5	nm
Ethanol	ug/m3	200	190	5
Acrolein	ug/m3	<0.66	<0.66	nm
Pentane	ug/m3	<17	<17	nm
Trichlorofluoromethane	ug/m3	<13	<13	nm
Acetone	ug/m3	810	820	1
2-Propanol	ug/m3	<50	<50	nm
1,1-Dichloroethene	ug/m3	<2.3	<2.3	nm
trans-1,2-Dichloroethene	ug/m3	<2.3	<2.3	nm
Methylene chloride	ug/m3	<200	<200	nm
t-Butyl alcohol (TBA)	ug/m3	<70	<70	nm
3-Chloropropene	ug/m3	<9.1	<9.1	nm
CFC-113	ug/m3	<4.4	<4.4	nm
Carbon disulfide	ug/m3	<36	<36	nm
Methyl t-butyl ether (MTBE)	ug/m3	<10	<10	nm
Vinyl acetate	ug/m3	<41	<41	nm
1,1-Dichloroethane	ug/m3	<2.3	<2.3	nm
cis-1,2-Dichloroethene	ug/m3	<2.3	<2.3	nm
Hexane	ug/m3	<20	<20	nm
Chloroform	ug/m3	<0.28	<0.28	nm
Ethyl acetate	ug/m3	<42	<42	nm
Tetrahydrofuran	ug/m3	19	20	5
2-Butanone (MEK)	ug/m3	<17	<17	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.23	<0.23	nm
1,1,1-Trichloroethane	ug/m3	<3.2	<3.2	nm
Carbon tetrachloride	ug/m3	<1.8	<1.8	nm
Benzene	ug/m3	<1.9	<1.9	nm
Cyclohexane	ug/m3	<40	<40	nm
1,2-Dichloropropane	ug/m3	<1.3	<1.3	nm
1,4-Dioxane	ug/m3	<2.1	<2.1	nm
2,2,4-Trimethylpentane	ug/m3	<27	<27	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/01/22

Date Received: 01/21/22

Project: Spic n Span 060172, F&BI 201302

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 201302-01 1/5.8 (Duplicate, continued)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Methyl methacrylate	ug/m3	<24	<24	nm
Heptane	ug/m3	<24	<24	nm
Bromodichloromethane	ug/m3	<0.39	<0.39	nm
Trichloroethene	ug/m3	<0.62	<0.62	nm
cis-1,3-Dichloropropene	ug/m3	<2.6	<2.6	nm
4-Methyl-2-pentanone	ug/m3	<24	<24	nm
trans-1,3-Dichloropropene	ug/m3	<2.6	<2.6	nm
Toluene	ug/m3	<110	<110	nm
1,1,2-Trichloroethane	ug/m3	<0.32	<0.32	nm
2-Hexanone	ug/m3	<24	<24	nm
Tetrachloroethene	ug/m3	<39	<39	nm
Dibromochloromethane	ug/m3	<0.49	<0.49	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.45	<0.45	nm
Chlorobenzene	ug/m3	<2.7	<2.7	nm
Ethylbenzene	ug/m3	4.6	4.6	0
1,1,2,2-Tetrachloroethane	ug/m3	<0.8	<0.8	nm
Nonane	ug/m3	<30	<30	nm
Isopropylbenzene	ug/m3	<14	<14	nm
2-Chlorotoluene	ug/m3	<30	<30	nm
Propylbenzene	ug/m3	<14	<14	nm
4-Ethyltoluene	ug/m3	<14	<14	nm
m,p-Xylene	ug/m3	17	16	6
o-Xylene	ug/m3	5.7	5.6	2
Styrene	ug/m3	<4.9	<4.9	nm
Bromoform	ug/m3	<12	<12	nm
Benzyl chloride	ug/m3	<0.3	<0.3	nm
1,3,5-Trimethylbenzene	ug/m3	<14	<14	nm
1,2,4-Trimethylbenzene	ug/m3	<14	<14	nm
1,3-Dichlorobenzene	ug/m3	<3.5	<3.5	nm
1,4-Dichlorobenzene	ug/m3	<1.3	<1.3	nm
1,2-Dichlorobenzene	ug/m3	<3.5	<3.5	nm
1,2,4-Trichlorobenzene	ug/m3	<4.3	<4.3	nm
Naphthalene	ug/m3	<1.5	<1.5	nm
Hexachlorobutadiene	ug/m3	<1.2	<1.2	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/01/22

Date Received: 01/21/22

Project: Spic n Span 060172, F&BI 201302

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance
			Recovery LCS	Criteria
Propene	ug/m3	23	85	70-130
Dichlorodifluoromethane	ug/m3	67	107	70-130
Chloromethane	ug/m3	28	89	70-130
F-114	ug/m3	94	105	70-130
Vinyl chloride	ug/m3	35	96	70-130
1,3-Butadiene	ug/m3	30	92	70-130
Butane	ug/m3	32	95	70-130
Bromomethane	ug/m3	52	104	70-130
Chloroethane	ug/m3	36	98	70-130
Vinyl bromide	ug/m3	59	99	70-130
Ethanol	ug/m3	25	119	70-130
Acrolein	ug/m3	31	95	70-130
Pentane	ug/m3	40	97	70-130
Trichlorofluoromethane	ug/m3	76	108	70-130
Acetone	ug/m3	32	97	70-130
2-Propanol	ug/m3	33	93	70-130
1,1-Dichloroethene	ug/m3	54	97	70-130
trans-1,2-Dichloroethene	ug/m3	54	98	70-130
Methylene chloride	ug/m3	94	77	70-130
t-Butyl alcohol (TBA)	ug/m3	41	95	70-130
3-Chloropropene	ug/m3	42	93	70-130
CFC-113	ug/m3	100	107	70-130
Carbon disulfide	ug/m3	42	93	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	95	70-130
Vinyl acetate	ug/m3	48	85	70-130
1,1-Dichloroethane	ug/m3	55	99	70-130
cis-1,2-Dichloroethene	ug/m3	54	97	70-130
Hexane	ug/m3	48	95	70-130
Chloroform	ug/m3	66	105	70-130
Ethyl acetate	ug/m3	49	100	70-130
Tetrahydrofuran	ug/m3	40	87	70-130
2-Butanone (MEK)	ug/m3	40	100	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	109	70-130
1,1,1-Trichloroethane	ug/m3	74	108	70-130
Carbon tetrachloride	ug/m3	85	111	70-130
Benzene	ug/m3	43	95	70-130
Cyclohexane	ug/m3	46	91	70-130
1,2-Dichloropropane	ug/m3	62	94	70-130
1,4-Dioxane	ug/m3	49	98	70-130
2,2,4-Trimethylpentane	ug/m3	63	96	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/01/22

Date Received: 01/21/22

Project: Spic n Span 060172, F&BI 201302

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (Continued)

Analyte	Reporting Units	Spike Level	Percent	Acceptance Criteria
			Recovery LCS	
Methyl methacrylate	ug/m3	55	98	70-130
Heptane	ug/m3	55	92	70-130
Bromodichloromethane	ug/m3	90	108	70-130
Trichloroethene	ug/m3	73	101	70-130
cis-1,3-Dichloropropene	ug/m3	61	103	70-130
4-Methyl-2-pentanone	ug/m3	55	96	70-130
trans-1,3-Dichloropropene	ug/m3	61	109	70-130
Toluene	ug/m3	51	108	70-130
1,1,2-Trichloroethane	ug/m3	74	103	70-130
2-Hexanone	ug/m3	55	93	70-130
Tetrachloroethene	ug/m3	92	115	70-130
Dibromochloromethane	ug/m3	120	113	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	100	70-130
Chlorobenzene	ug/m3	62	112	70-130
Ethylbenzene	ug/m3	59	97	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	101	70-130
Nonane	ug/m3	71	82	70-130
Isopropylbenzene	ug/m3	66	112	70-130
2-Chlorotoluene	ug/m3	70	106	70-130
Propylbenzene	ug/m3	66	98	70-130
4-Ethyltoluene	ug/m3	66	96	70-130
m,p-Xylene	ug/m3	120	100	70-130
o-Xylene	ug/m3	59	101	70-130
Styrene	ug/m3	58	98	70-130
Bromoform	ug/m3	140	121	70-130
Benzyl chloride	ug/m3	70	106	70-130
1,3,5-Trimethylbenzene	ug/m3	66	92	70-130
1,2,4-Trimethylbenzene	ug/m3	66	88	70-130
1,3-Dichlorobenzene	ug/m3	81	110	70-130
1,4-Dichlorobenzene	ug/m3	81	97	70-130
1,2-Dichlorobenzene	ug/m3	81	104	70-130
1,2,4-Trichlorobenzene	ug/m3	100	95	70-130
Naphthalene	ug/m3	71	92	70-130
Hexachlorobutadiene	ug/m3	140	122	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Groundwater



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

November 27, 2019

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suit 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 1911-227

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on November 22, 2019.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 27, 2019
Samples Submitted: November 22, 2019
Laboratory Reference: 1911-227
Project: 060172

Case Narrative

Samples were collected on November 20, 2019 and received by the laboratory on November 22, 2019. 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: November 27, 2019
 Samples Submitted: November 22, 2019
 Laboratory Reference: 1911-227
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4-112019					
Laboratory ID:	11-227-01					
Gasoline	ND	100	NWTPH-Gx	11-22-19	11-22-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	99	59-122				
Client ID:	MW-11-112019					
Laboratory ID:	11-227-02					
Gasoline	ND	100	NWTPH-Gx	11-22-19	11-22-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	97	59-122				
Client ID:	MW-12-112019					
Laboratory ID:	11-227-03					
Gasoline	ND	100	NWTPH-Gx	11-22-19	11-22-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	96	59-122				
Client ID:	MW-5R-112019					
Laboratory ID:	11-227-04					
Gasoline	ND	100	NWTPH-Gx	11-22-19	11-22-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	59-122				
Client ID:	MW-10-112019					
Laboratory ID:	11-227-05					
Gasoline	110	100	NWTPH-Gx	11-22-19	11-22-19	Z
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	99	59-122				



Date of Report: November 27, 2019
 Samples Submitted: November 22, 2019
 Laboratory Reference: 1911-227
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1122W1					
Gasoline	ND	100	NWTPH-Gx	11-22-19	11-22-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	59-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-217-01							
	ORIG	DUP						
Gasoline	152	144	NA	NA	NA	NA	5	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				99	98	59-122		



Date of Report: November 27, 2019
 Samples Submitted: November 22, 2019
 Laboratory Reference: 1911-227
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4-112019					
Laboratory ID:	11-227-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloromethane	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Vinyl Chloride	31	0.20	EPA 8260D	11-22-19	11-22-19	
Bromomethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloroethane	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Trichlorofluoromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Acetone	ND	5.0	EPA 8260D	11-22-19	11-22-19	
Iodomethane	ND	2.3	EPA 8260D	11-22-19	11-22-19	
Carbon Disulfide	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methylene Chloride	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(trans) 1,2-Dichloroethene	0.38	0.20	EPA 8260D	11-22-19	11-22-19	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Vinyl Acetate	ND	1.0	EPA 8260D	11-22-19	11-22-19	
2,2-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
(cis) 1,2-Dichloroethene	36	0.20	EPA 8260D	11-22-19	11-22-19	
2-Butanone	ND	5.0	EPA 8260D	11-22-19	11-22-19	
Bromochloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloroform	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Carbon Tetrachloride	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Benzene	1.0	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichloroethane	0.27	0.20	EPA 8260D	11-22-19	11-22-19	
Trichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Dibromomethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromodichloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	11-22-19	11-22-19	
Toluene	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	



Date of Report: November 27, 2019
 Samples Submitted: November 22, 2019
 Laboratory Reference: 1911-227
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4-112019					
Laboratory ID:	11-227-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Tetrachloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Hexanone	ND	2.0	EPA 8260D	11-22-19	11-22-19	
Dibromochloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Ethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
m,p-Xylene	ND	0.40	EPA 8260D	11-22-19	11-22-19	
o-Xylene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Styrene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromoform	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Isopropylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
n-Propylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Chlorotoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
4-Chlorotoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
tert-Butylbenzene	0.27	0.20	EPA 8260D	11-22-19	11-22-19	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
sec-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
p-Isopropyltoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
n-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	11-22-19	11-22-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Hexachlorobutadiene	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Naphthalene	ND	1.3	EPA 8260D	11-22-19	11-22-19	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260D	11-22-19	11-22-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



Date of Report: November 27, 2019
 Samples Submitted: November 22, 2019
 Laboratory Reference: 1911-227
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11-112019					
Laboratory ID:	11-227-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloromethane	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Vinyl Chloride	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromomethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloroethane	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Trichlorofluoromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Acetone	ND	5.0	EPA 8260D	11-22-19	11-22-19	
Iodomethane	ND	2.3	EPA 8260D	11-22-19	11-22-19	
Carbon Disulfide	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methylene Chloride	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Vinyl Acetate	ND	1.0	EPA 8260D	11-22-19	11-22-19	
2,2-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
(cis) 1,2-Dichloroethene	5.8	0.20	EPA 8260D	11-22-19	11-22-19	
2-Butanone	ND	5.0	EPA 8260D	11-22-19	11-22-19	
Bromochloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloroform	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Carbon Tetrachloride	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Benzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Trichloroethene	2.5	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Dibromomethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromodichloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	11-22-19	11-22-19	
Toluene	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	



Date of Report: November 27, 2019
 Samples Submitted: November 22, 2019
 Laboratory Reference: 1911-227
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11-112019					
Laboratory ID:	11-227-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Tetrachloroethene	11	0.20	EPA 8260D	11-22-19	11-22-19	
1,3-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Hexanone	ND	2.0	EPA 8260D	11-22-19	11-22-19	
Dibromochloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Ethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
m,p-Xylene	ND	0.40	EPA 8260D	11-22-19	11-22-19	
o-Xylene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Styrene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromoform	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Isopropylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
n-Propylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Chlorotoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
4-Chlorotoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
tert-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
sec-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
p-Isopropyltoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
n-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	11-22-19	11-22-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Hexachlorobutadiene	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Naphthalene	ND	1.3	EPA 8260D	11-22-19	11-22-19	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260D	11-22-19	11-22-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: November 27, 2019
 Samples Submitted: November 22, 2019
 Laboratory Reference: 1911-227
 Project: 060172

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12-112019					
Laboratory ID:	11-227-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloromethane	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Vinyl Chloride	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromomethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloroethane	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Trichlorofluoromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Acetone	ND	5.0	EPA 8260D	11-22-19	11-22-19	
Iodomethane	ND	2.3	EPA 8260D	11-22-19	11-22-19	
Carbon Disulfide	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methylene Chloride	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Vinyl Acetate	ND	1.0	EPA 8260D	11-22-19	11-22-19	
2,2-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Butanone	ND	5.0	EPA 8260D	11-22-19	11-22-19	
Bromochloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloroform	6.0	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Carbon Tetrachloride	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Benzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Trichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Dibromomethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromodichloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	11-22-19	11-22-19	
Toluene	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12-112019					
Laboratory ID:	11-227-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Tetrachloroethene	3.2	0.20	EPA 8260D	11-22-19	11-22-19	
1,3-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Hexanone	ND	2.0	EPA 8260D	11-22-19	11-22-19	
Dibromochloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Ethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
m,p-Xylene	ND	0.40	EPA 8260D	11-22-19	11-22-19	
o-Xylene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Styrene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromoform	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Isopropylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
n-Propylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Chlorotoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
4-Chlorotoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
tert-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
sec-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
p-Isopropyltoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
n-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	11-22-19	11-22-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Hexachlorobutadiene	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Naphthalene	ND	1.3	EPA 8260D	11-22-19	11-22-19	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260D	11-22-19	11-22-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5R-112019					
Laboratory ID:	11-227-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloromethane	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Vinyl Chloride	2.8	0.20	EPA 8260D	11-22-19	11-22-19	
Bromomethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloroethane	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Trichlorofluoromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Acetone	ND	5.0	EPA 8260D	11-22-19	11-22-19	
Iodomethane	ND	2.3	EPA 8260D	11-22-19	11-22-19	
Carbon Disulfide	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methylene Chloride	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Vinyl Acetate	ND	1.0	EPA 8260D	11-22-19	11-22-19	
2,2-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
(cis) 1,2-Dichloroethene	6.1	0.20	EPA 8260D	11-22-19	11-22-19	
2-Butanone	ND	5.0	EPA 8260D	11-22-19	11-22-19	
Bromochloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloroform	0.24	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Carbon Tetrachloride	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Benzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Trichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Dibromomethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromodichloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	11-22-19	11-22-19	
Toluene	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5R-112019					
Laboratory ID:	11-227-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Tetrachloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Hexanone	ND	2.0	EPA 8260D	11-22-19	11-22-19	
Dibromochloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Ethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
m,p-Xylene	ND	0.40	EPA 8260D	11-22-19	11-22-19	
o-Xylene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Styrene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromoform	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Isopropylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
n-Propylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Chlorotoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
4-Chlorotoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
tert-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
sec-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
p-Isopropyltoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
n-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	11-22-19	11-22-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Hexachlorobutadiene	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Naphthalene	ND	1.3	EPA 8260D	11-22-19	11-22-19	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260D	11-22-19	11-22-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



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 Project: 060172

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-112019					
Laboratory ID:	11-227-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloromethane	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Vinyl Chloride	1.4	0.20	EPA 8260D	11-22-19	11-22-19	
Bromomethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloroethane	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Trichlorofluoromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Acetone	ND	5.0	EPA 8260D	11-22-19	11-22-19	
Iodomethane	ND	2.3	EPA 8260D	11-22-19	11-22-19	
Carbon Disulfide	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methylene Chloride	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(trans) 1,2-Dichloroethene	0.49	0.20	EPA 8260D	11-22-19	11-22-19	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Vinyl Acetate	ND	1.0	EPA 8260D	11-22-19	11-22-19	
2,2-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
(cis) 1,2-Dichloroethene	38	0.20	EPA 8260D	11-22-19	11-22-19	
2-Butanone	ND	5.0	EPA 8260D	11-22-19	11-22-19	
Bromochloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloroform	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Carbon Tetrachloride	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Benzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichloroethane	0.74	0.20	EPA 8260D	11-22-19	11-22-19	
Trichloroethene	2.2	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Dibromomethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromodichloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	11-22-19	11-22-19	
Toluene	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-112019					
Laboratory ID:	11-227-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Tetrachloroethene	1.5	0.20	EPA 8260D	11-22-19	11-22-19	
1,3-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Hexanone	ND	2.0	EPA 8260D	11-22-19	11-22-19	
Dibromochloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Ethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
m,p-Xylene	ND	0.40	EPA 8260D	11-22-19	11-22-19	
o-Xylene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Styrene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromoform	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Isopropylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
n-Propylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Chlorotoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
4-Chlorotoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
tert-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
sec-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
p-Isopropyltoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
n-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	11-22-19	11-22-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Hexachlorobutadiene	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Naphthalene	ND	1.3	EPA 8260D	11-22-19	11-22-19	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260D	11-22-19	11-22-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



Date of Report: November 27, 2019
 Samples Submitted: November 22, 2019
 Laboratory Reference: 1911-227
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	11-227-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloromethane	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Vinyl Chloride	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromomethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloroethane	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Trichlorofluoromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Acetone	ND	5.0	EPA 8260D	11-22-19	11-22-19	
Iodomethane	ND	2.3	EPA 8260D	11-22-19	11-22-19	
Carbon Disulfide	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methylene Chloride	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Vinyl Acetate	ND	1.0	EPA 8260D	11-22-19	11-22-19	
2,2-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Butanone	ND	5.0	EPA 8260D	11-22-19	11-22-19	
Bromochloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloroform	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Carbon Tetrachloride	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Benzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Trichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Dibromomethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromodichloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	11-22-19	11-22-19	
Toluene	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	



Date of Report: November 27, 2019
 Samples Submitted: November 22, 2019
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VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	11-227-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Tetrachloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Hexanone	ND	2.0	EPA 8260D	11-22-19	11-22-19	
Dibromochloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Ethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
m,p-Xylene	ND	0.40	EPA 8260D	11-22-19	11-22-19	
o-Xylene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Styrene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromoform	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Isopropylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
n-Propylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Chlorotoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
4-Chlorotoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
tert-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
sec-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
p-Isopropyltoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
n-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	11-22-19	11-22-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Hexachlorobutadiene	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Naphthalene	ND	1.3	EPA 8260D	11-22-19	11-22-19	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260D	11-22-19	11-22-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: November 27, 2019
 Samples Submitted: November 22, 2019
 Laboratory Reference: 1911-227
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1122W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloromethane	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Vinyl Chloride	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromomethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloroethane	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Trichlorofluoromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Acetone	ND	5.0	EPA 8260D	11-22-19	11-22-19	
Iodomethane	ND	2.3	EPA 8260D	11-22-19	11-22-19	
Carbon Disulfide	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methylene Chloride	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Vinyl Acetate	ND	1.0	EPA 8260D	11-22-19	11-22-19	
2,2-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Butanone	ND	5.0	EPA 8260D	11-22-19	11-22-19	
Bromochloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chloroform	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Carbon Tetrachloride	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Benzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Trichloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Dibromomethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromodichloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	11-22-19	11-22-19	
Toluene	ND	1.0	EPA 8260D	11-22-19	11-22-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-22-19	11-22-19	



Date of Report: November 27, 2019
 Samples Submitted: November 22, 2019
 Laboratory Reference: 1911-227
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1122W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Tetrachloroethene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3-Dichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Hexanone	ND	2.0	EPA 8260D	11-22-19	11-22-19	
Dibromochloromethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Chlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Ethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
m,p-Xylene	ND	0.40	EPA 8260D	11-22-19	11-22-19	
o-Xylene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Styrene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromoform	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Isopropylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Bromobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	11-22-19	11-22-19	
n-Propylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
2-Chlorotoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
4-Chlorotoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
tert-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
sec-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
p-Isopropyltoluene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
n-Butylbenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	11-22-19	11-22-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	11-22-19	11-22-19	
Hexachlorobutadiene	ND	1.0	EPA 8260D	11-22-19	11-22-19	
Naphthalene	ND	1.3	EPA 8260D	11-22-19	11-22-19	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260D	11-22-19	11-22-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



Date of Report: November 27, 2019
 Samples Submitted: November 22, 2019
 Laboratory Reference: 1911-227
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1122W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.6	10.3	10.0	10.0	106	103	63-130	3	17	
Benzene	10.3	10.1	10.0	10.0	103	101	76-125	2	19	
Trichloroethene	9.88	9.66	10.0	10.0	99	97	76-121	2	18	
Toluene	9.78	9.67	10.0	10.0	98	97	80-124	1	18	
Chlorobenzene	9.28	9.05	10.0	10.0	93	91	75-120	3	19	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>108</i>	<i>107</i>	<i>75-127</i>			
<i>Toluene-d8</i>					<i>104</i>	<i>104</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>102</i>	<i>102</i>	<i>78-125</i>			





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 - The sample chromatogram is similar to mineral spirits.

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





Mv 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

Turnaround Request
(in working days)

(Check One)

- Same Day
- 1 Day
- 2 Days
- 3 Days
- Standard (7 Days)

(other) _____

Number of Containers

Laboratory Number: **71-227**

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> 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	

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers																					
					NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> 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	MW-4-112019	11/20/19	0955	Water			X		X																	
2	MW-11-112019		1135	Water			X		X																	
3	MW-12-112019		1235	Water			X		X																	
4	MW-5R-112019		1330	Water			X		X																	
5	MW-10-112019		1425	Water			X		X																	
6	Tap Blank			Water					X																	

Signature	Company	Date	Time	Comments/Special Instructions
<i>D. Bohrad</i>	Aspect	11/22/19	09:11	
#17	Speedy & John	11/22/19	09:14	
#17	Speedy & John	11/22/19	11:40	Am
<i>[Signature]</i>	OSTE	11/22/19	11:40	
Received				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Relinquished				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>
Received/Date				



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

January 10, 2020

Delia Massey
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2001-046

Dear Delia:

Enclosed are the analytical results and associated quality control data for samples submitted on January 7, 2020.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: January 10, 2020
Samples Submitted: January 7, 2020
Laboratory Reference: 2001-046
Project: 060172

Case Narrative

Samples were collected on January 6, 2020 and received by the laboratory on January 7, 2020. 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: January 10, 2020
 Samples Submitted: January 7, 2020
 Laboratory Reference: 2001-046
 Project: 060172

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-010620					
Laboratory ID:	01-046-01					
Gasoline	ND	100	NWTPH-Gx	1-7-20	1-7-20	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	92	59-122				



Date of Report: January 10, 2020
 Samples Submitted: January 7, 2020
 Laboratory Reference: 2001-046
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0107W2					
Gasoline	ND	100	NWTPH-Gx	1-7-20	1-7-20	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	59-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-019-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				96	93	59-122		



Date of Report: January 10, 2020
 Samples Submitted: January 7, 2020
 Laboratory Reference: 2001-046
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-010620					
Laboratory ID:	01-046-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Chloromethane	ND	1.0	EPA 8260D	1-8-20	1-8-20	
Vinyl Chloride	1.2	0.20	EPA 8260D	1-8-20	1-8-20	
Bromomethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Chloroethane	ND	1.0	EPA 8260D	1-8-20	1-8-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Acetone	ND	5.0	EPA 8260D	1-8-20	1-8-20	
Iodomethane	ND	1.0	EPA 8260D	1-8-20	1-8-20	
Carbon Disulfide	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Methylene Chloride	ND	1.0	EPA 8260D	1-8-20	1-8-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Vinyl Acetate	ND	1.0	EPA 8260D	1-8-20	1-8-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
(cis) 1,2-Dichloroethene	0.53	0.20	EPA 8260D	1-8-20	1-8-20	
2-Butanone	ND	5.0	EPA 8260D	1-8-20	1-8-20	
Bromochloromethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Chloroform	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Benzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,2-Dichloroethane	0.20	0.20	EPA 8260D	1-8-20	1-8-20	
Trichloroethene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Dibromomethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Bromodichloromethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	1-8-20	1-8-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	1-8-20	1-8-20	
Toluene	ND	1.0	EPA 8260D	1-8-20	1-8-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-8-20	1-8-20	



Date of Report: January 10, 2020
 Samples Submitted: January 7, 2020
 Laboratory Reference: 2001-046
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-010620					
Laboratory ID:	01-046-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Tetrachloroethene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
2-Hexanone	ND	2.0	EPA 8260D	1-8-20	1-8-20	
Dibromochloromethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Chlorobenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Ethylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
m,p-Xylene	ND	0.40	EPA 8260D	1-8-20	1-8-20	
o-Xylene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Styrene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Bromoform	ND	1.0	EPA 8260D	1-8-20	1-8-20	
Isopropylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Bromobenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
n-Propylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
tert-Butylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
sec-Butylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
p-Isopropyltoluene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
n-Butylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	1-8-20	1-8-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	1-8-20	1-8-20	
Naphthalene	ND	1.0	EPA 8260D	1-8-20	1-8-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>78-125</i>				



Date of Report: January 10, 2020
 Samples Submitted: January 7, 2020
 Laboratory Reference: 2001-046
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0108W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Chloromethane	ND	1.0	EPA 8260D	1-8-20	1-8-20	
Vinyl Chloride	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Bromomethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Chloroethane	ND	1.0	EPA 8260D	1-8-20	1-8-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Acetone	ND	5.0	EPA 8260D	1-8-20	1-8-20	
Iodomethane	ND	1.0	EPA 8260D	1-8-20	1-8-20	
Carbon Disulfide	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Methylene Chloride	ND	1.0	EPA 8260D	1-8-20	1-8-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Vinyl Acetate	ND	1.0	EPA 8260D	1-8-20	1-8-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
2-Butanone	ND	5.0	EPA 8260D	1-8-20	1-8-20	
Bromochloromethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Chloroform	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Benzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Trichloroethene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Dibromomethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Bromodichloromethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	1-8-20	1-8-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	1-8-20	1-8-20	
Toluene	ND	1.0	EPA 8260D	1-8-20	1-8-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-8-20	1-8-20	



Date of Report: January 10, 2020
 Samples Submitted: January 7, 2020
 Laboratory Reference: 2001-046
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0108W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Tetrachloroethene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
2-Hexanone	ND	2.0	EPA 8260D	1-8-20	1-8-20	
Dibromochloromethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Chlorobenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Ethylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
m,p-Xylene	ND	0.40	EPA 8260D	1-8-20	1-8-20	
o-Xylene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Styrene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Bromoform	ND	1.0	EPA 8260D	1-8-20	1-8-20	
Isopropylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Bromobenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	1-8-20	1-8-20	
n-Propylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
tert-Butylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
sec-Butylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
p-Isopropyltoluene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
n-Butylbenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	1-8-20	1-8-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	1-8-20	1-8-20	
Naphthalene	ND	1.0	EPA 8260D	1-8-20	1-8-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	1-8-20	1-8-20	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>78-125</i>				



Date of Report: January 10, 2020
 Samples Submitted: January 7, 2020
 Laboratory Reference: 2001-046
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0108W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.8	9.80	10.0	10.0	108	98	63-130	10	17	
Benzene	10.6	9.78	10.0	10.0	106	98	76-125	8	19	
Trichloroethene	11.4	10.2	10.0	10.0	114	102	76-121	11	18	
Toluene	11.5	10.0	10.0	10.0	115	100	80-124	14	18	
Chlorobenzene	11.1	9.84	10.0	10.0	111	98	75-120	12	19	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>87</i>	<i>97</i>	<i>75-127</i>			
<i>Toluene-d8</i>					<i>96</i>	<i>102</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>104</i>	<i>110</i>	<i>78-125</i>			





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





MVA Onsite Environmental Inc.
 14648 NE 95th Street • Redmond, WA 98072
 Phone: (425) 855-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

(Check One)

- Same Day
- 1 Day
- 2 Days
- 3 Days
- Standard (7 Days)
(TPH analysis 5 Days)
- _____ (other)

Laboratory Number:

01-046

Company: Aspect Consulting
 Project Number: 060172
 Project Name: Spic N Span
 Project Manager: Delia Massad & Jeremy Porter
 Sampled by: DJS

Lab ID	Sample Identification	Date		Matrix	Number of Containers	Laboratory Analysis																	
		Sampled	Time Sampled			NWTPH-HCID	NWTPH-GxBTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	% Moisture		
1	MW-6-D10620	1/6/20	1035	Water	5			X		X													



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

December 6, 2021

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2112-040

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on December 3, 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,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: December 6, 2021
Samples Submitted: December 3, 2021
Laboratory Reference: 2112-040
Project: 060172

Case Narrative

Samples were collected on December 2, 2021 and received by the laboratory on December 3, 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: December 6, 2021
 Samples Submitted: December 3, 2021
 Laboratory Reference: 2112-040
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11-120221					
Laboratory ID:	12-040-01					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Chloromethane	ND	10	EPA 8260D	12-3-21	12-3-21	
Vinyl Chloride	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Bromomethane	ND	10	EPA 8260D	12-3-21	12-3-21	
Chloroethane	ND	10	EPA 8260D	12-3-21	12-3-21	
Trichlorofluoromethane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloroethene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Acetone	730	50	EPA 8260D	12-3-21	12-3-21	
Iodomethane	ND	10	EPA 8260D	12-3-21	12-3-21	
Carbon Disulfide	13	2.0	EPA 8260D	12-3-21	12-3-21	
Methylene Chloride	ND	10	EPA 8260D	12-3-21	12-3-21	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Methyl t-Butyl Ether	ND	2.0	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloroethane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Vinyl Acetate	ND	10	EPA 8260D	12-3-21	12-3-21	
2,2-Dichloropropane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
(cis) 1,2-Dichloroethene	7.3	2.0	EPA 8260D	12-3-21	12-3-21	
2-Butanone	110	50	EPA 8260D	12-3-21	12-3-21	
Bromochloromethane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Chloroform	ND	2.0	EPA 8260D	12-3-21	12-3-21	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Carbon Tetrachloride	ND	2.0	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloropropene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Benzene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
1,2-Dichloroethane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Trichloroethene	5.7	2.0	EPA 8260D	12-3-21	12-3-21	
1,2-Dichloropropane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Dibromomethane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Bromodichloromethane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Methyl Isobutyl Ketone	ND	25	EPA 8260D	12-3-21	12-3-21	
Toluene	ND	10	EPA 8260D	12-3-21	12-3-21	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	12-3-21	12-3-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11-120221					
Laboratory ID:	12-040-01					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Tetrachloroethene	6.5	2.0	EPA 8260D	12-3-21	12-3-21	
1,3-Dichloropropane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
2-Hexanone	ND	27	EPA 8260D	12-3-21	12-3-21	
Dibromochloromethane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
1,2-Dibromoethane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Chlorobenzene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Ethylbenzene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
m,p-Xylene	ND	4.0	EPA 8260D	12-3-21	12-3-21	
o-Xylene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Styrene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Bromoform	ND	10	EPA 8260D	12-3-21	12-3-21	
Isopropylbenzene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
Bromobenzene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	12-3-21	12-3-21	
n-Propylbenzene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
2-Chlorotoluene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
4-Chlorotoluene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
1,3,5-Trimethylbenzene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
tert-Butylbenzene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
1,2,4-Trimethylbenzene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
sec-Butylbenzene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
p-Isopropyltoluene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
n-Butylbenzene	ND	2.0	EPA 8260D	12-3-21	12-3-21	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	12-3-21	12-3-21	
1,2,4-Trichlorobenzene	ND	10	EPA 8260D	12-3-21	12-3-21	
Hexachlorobutadiene	ND	10	EPA 8260D	12-3-21	12-3-21	
Naphthalene	ND	10	EPA 8260D	12-3-21	12-3-21	
1,2,3-Trichlorobenzene	ND	10	EPA 8260D	12-3-21	12-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	95	75-127				
<i>Toluene-d8</i>	99	80-127				
<i>4-Bromofluorobenzene</i>	98	78-125				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12-120221					
Laboratory ID:	12-040-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Chloromethane	ND	1.0	EPA 8260D	12-3-21	12-3-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Bromomethane	ND	1.0	EPA 8260D	12-3-21	12-3-21	
Chloroethane	ND	1.0	EPA 8260D	12-3-21	12-3-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Acetone	180	20	EPA 8260D	12-6-21	12-6-21	
Iodomethane	ND	1.0	EPA 8260D	12-3-21	12-3-21	
Carbon Disulfide	0.74	0.20	EPA 8260D	12-3-21	12-3-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-3-21	12-3-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-3-21	12-3-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
2-Butanone	9.4	5.0	EPA 8260D	12-3-21	12-3-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Chloroform	14	0.20	EPA 8260D	12-3-21	12-3-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Benzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Trichloroethene	0.51	0.20	EPA 8260D	12-3-21	12-3-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Dibromomethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Methyl Isobutyl Ketone	ND	2.5	EPA 8260D	12-3-21	12-3-21	
Toluene	ND	1.0	EPA 8260D	12-3-21	12-3-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-3-21	12-3-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12-120221					
Laboratory ID:	12-040-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Tetrachloroethene	22	0.20	EPA 8260D	12-3-21	12-3-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
2-Hexanone	ND	2.7	EPA 8260D	12-3-21	12-3-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-3-21	12-3-21	
o-Xylene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Styrene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Bromoform	ND	1.0	EPA 8260D	12-3-21	12-3-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Bromobenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-3-21	12-3-21	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260D	12-3-21	12-3-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-3-21	12-3-21	
Naphthalene	ND	1.0	EPA 8260D	12-3-21	12-3-21	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	12-3-21	12-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	75-127				
<i>Toluene-d8</i>	97	80-127				
<i>4-Bromofluorobenzene</i>	100	78-125				



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QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1203W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Chloromethane	ND	1.0	EPA 8260D	12-3-21	12-3-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Bromomethane	ND	1.0	EPA 8260D	12-3-21	12-3-21	
Chloroethane	ND	1.0	EPA 8260D	12-3-21	12-3-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Acetone	ND	5.0	EPA 8260D	12-3-21	12-3-21	
Iodomethane	ND	1.0	EPA 8260D	12-3-21	12-3-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-3-21	12-3-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-3-21	12-3-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
2-Butanone	ND	5.0	EPA 8260D	12-3-21	12-3-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Chloroform	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Benzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Trichloroethene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Dibromomethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Methyl Isobutyl Ketone	ND	2.5	EPA 8260D	12-3-21	12-3-21	
Toluene	ND	1.0	EPA 8260D	12-3-21	12-3-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-3-21	12-3-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1203W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
2-Hexanone	ND	2.7	EPA 8260D	12-3-21	12-3-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-3-21	12-3-21	
o-Xylene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Styrene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Bromoform	ND	1.0	EPA 8260D	12-3-21	12-3-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
Bromobenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-3-21	12-3-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-3-21	12-3-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-3-21	12-3-21	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260D	12-3-21	12-3-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-3-21	12-3-21	
Naphthalene	ND	1.0	EPA 8260D	12-3-21	12-3-21	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	12-3-21	12-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	75-127				
<i>Toluene-d8</i>	97	80-127				
<i>4-Bromofluorobenzene</i>	93	78-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206W1					
Dichlorodifluoromethane	ND	0.26	EPA 8260D	12-6-21	12-6-21	
Chloromethane	ND	1.0	EPA 8260D	12-6-21	12-6-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Bromomethane	ND	1.6	EPA 8260D	12-6-21	12-6-21	
Chloroethane	ND	1.0	EPA 8260D	12-6-21	12-6-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Acetone	ND	5.0	EPA 8260D	12-6-21	12-6-21	
Iodomethane	ND	1.3	EPA 8260D	12-6-21	12-6-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-6-21	12-6-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-6-21	12-6-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
2-Butanone	ND	5.0	EPA 8260D	12-6-21	12-6-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Chloroform	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Benzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Trichloroethene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Dibromomethane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-6-21	12-6-21	
Toluene	ND	1.0	EPA 8260D	12-6-21	12-6-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-6-21	12-6-21	



Date of Report: December 6, 2021
 Samples Submitted: December 3, 2021
 Laboratory Reference: 2112-040
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
2-Hexanone	ND	2.0	EPA 8260D	12-6-21	12-6-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-6-21	12-6-21	
o-Xylene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Styrene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Bromoform	ND	1.0	EPA 8260D	12-6-21	12-6-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Bromobenzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-6-21	12-6-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-6-21	12-6-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-6-21	12-6-21	
Naphthalene	ND	1.0	EPA 8260D	12-6-21	12-6-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-6-21	12-6-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: December 6, 2021
 Samples Submitted: December 3, 2021
 Laboratory Reference: 2112-040
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1203W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.88	10.9	10.0	10.0	99	109	78-125	10	19	
Benzene	10.3	11.3	10.0	10.0	103	113	80-119	9	16	
Trichloroethene	10.2	11.7	10.0	10.0	102	117	80-121	14	18	
Toluene	9.73	10.9	10.0	10.0	97	109	80-117	11	18	
Chlorobenzene	9.92	11.3	10.0	10.0	99	113	80-117	13	17	
<i>Surrogate:</i>										
Dibromofluoromethane					97	96	75-127			
Toluene-d8					100	100	80-127			
4-Bromofluorobenzene					97	98	78-125			
Laboratory ID:	SB1206W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.1	10.0	10.0	10.0	101	100	78-125	1	19	
Benzene	10.2	10.0	10.0	10.0	102	100	80-119	2	16	
Trichloroethene	10.3	10.2	10.0	10.0	103	102	80-121	1	18	
Toluene	10.1	9.95	10.0	10.0	101	100	80-117	1	18	
Chlorobenzene	9.84	9.65	10.0	10.0	98	97	80-117	2	17	
<i>Surrogate:</i>										
Dibromofluoromethane					95	95	75-127			
Toluene-d8					100	99	80-127			
4-Bromofluorobenzene					103	100	78-125			





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





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

December 17, 2021

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2112-167

Dear Jeremy:

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

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: December 17, 2021
Samples Submitted: December 16, 2021
Laboratory Reference: 2112-167
Project: 060172

Case Narrative

Samples were collected on December 16, 2021 and received by the laboratory on December 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.

Volatiles EPA 8260D Analysis

All VOA vials provided for samples MW-11-121621 and MW-12-121621 contained headspace. Some loss of volatiles may have occurred.

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



Date of Report: December 17, 2021
 Samples Submitted: December 16, 2021
 Laboratory Reference: 2112-167
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11-121621					
Laboratory ID:	12-167-01					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Chloromethane	ND	10	EPA 8260D	12-17-21	12-17-21	
Vinyl Chloride	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Bromomethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Chloroethane	ND	10	EPA 8260D	12-17-21	12-17-21	
Trichlorofluoromethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,1-Dichloroethene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Acetone	520	50	EPA 8260D	12-17-21	12-17-21	
Iodomethane	ND	50	EPA 8260D	12-17-21	12-17-21	
Carbon Disulfide	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Methylene Chloride	ND	10	EPA 8260D	12-17-21	12-17-21	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Methyl t-Butyl Ether	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,1-Dichloroethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Vinyl Acetate	ND	10	EPA 8260D	12-17-21	12-17-21	
2,2-Dichloropropane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
(cis) 1,2-Dichloroethene	2.5	2.0	EPA 8260D	12-17-21	12-17-21	
2-Butanone	62	50	EPA 8260D	12-17-21	12-17-21	
Bromochloromethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Chloroform	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Carbon Tetrachloride	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,1-Dichloropropene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Benzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,2-Dichloroethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Trichloroethene	2.1	2.0	EPA 8260D	12-17-21	12-17-21	
1,2-Dichloropropane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Dibromomethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Bromodichloromethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Methyl Isobutyl Ketone	ND	20	EPA 8260D	12-17-21	12-17-21	
Toluene	ND	10	EPA 8260D	12-17-21	12-17-21	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	12-17-21	12-17-21	



Date of Report: December 17, 2021
 Samples Submitted: December 16, 2021
 Laboratory Reference: 2112-167
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11-121621					
Laboratory ID:	12-167-01					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Tetrachloroethene	2.5	2.0	EPA 8260D	12-17-21	12-17-21	
1,3-Dichloropropane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
2-Hexanone	ND	20	EPA 8260D	12-17-21	12-17-21	
Dibromochloromethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,2-Dibromoethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Chlorobenzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Ethylbenzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
m,p-Xylene	ND	4.0	EPA 8260D	12-17-21	12-17-21	
o-Xylene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Styrene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Bromoform	ND	10	EPA 8260D	12-17-21	12-17-21	
Isopropylbenzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Bromobenzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
n-Propylbenzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
2-Chlorotoluene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
4-Chlorotoluene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,3,5-Trimethylbenzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
tert-Butylbenzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,2,4-Trimethylbenzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
sec-Butylbenzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
p-Isopropyltoluene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
n-Butylbenzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	12-17-21	12-17-21	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Hexachlorobutadiene	ND	10	EPA 8260D	12-17-21	12-17-21	
Naphthalene	ND	10	EPA 8260D	12-17-21	12-17-21	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: December 17, 2021
 Samples Submitted: December 16, 2021
 Laboratory Reference: 2112-167
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12-121621					
Laboratory ID:	12-167-02					
Dichlorodifluoromethane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Chloromethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Vinyl Chloride	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Bromomethane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Chloroethane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Trichlorofluoromethane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
1,1-Dichloroethene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Acetone	160	10	EPA 8260D	12-17-21	12-17-21	
Iodomethane	ND	10	EPA 8260D	12-17-21	12-17-21	
Carbon Disulfide	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Methylene Chloride	ND	2.0	EPA 8260D	12-17-21	12-17-21	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Methyl t-Butyl Ether	ND	0.40	EPA 8260D	12-17-21	12-17-21	
1,1-Dichloroethane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Vinyl Acetate	ND	2.0	EPA 8260D	12-17-21	12-17-21	
2,2-Dichloropropane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
2-Butanone	ND	10	EPA 8260D	12-17-21	12-17-21	
Bromochloromethane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Chloroform	8.5	0.40	EPA 8260D	12-17-21	12-17-21	
1,1,1-Trichloroethane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Carbon Tetrachloride	ND	0.40	EPA 8260D	12-17-21	12-17-21	
1,1-Dichloropropene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Benzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
1,2-Dichloroethane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Trichloroethene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
1,2-Dichloropropane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Dibromomethane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Bromodichloromethane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Methyl Isobutyl Ketone	ND	4.0	EPA 8260D	12-17-21	12-17-21	
Toluene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260D	12-17-21	12-17-21	



Date of Report: December 17, 2021
 Samples Submitted: December 16, 2021
 Laboratory Reference: 2112-167
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date		Flags
				Prepared	Analyzed	
Client ID:	MW-12-121621					
Laboratory ID:	12-167-02					
1,1,2-Trichloroethane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Tetrachloroethene	3.9	0.40	EPA 8260D	12-17-21	12-17-21	
1,3-Dichloropropane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
2-Hexanone	ND	4.0	EPA 8260D	12-17-21	12-17-21	
Dibromochloromethane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
1,2-Dibromoethane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Chlorobenzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Ethylbenzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
m,p-Xylene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
o-Xylene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Styrene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Bromoform	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Isopropylbenzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Bromobenzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
1,2,3-Trichloropropane	ND	0.40	EPA 8260D	12-17-21	12-17-21	
n-Propylbenzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
2-Chlorotoluene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
4-Chlorotoluene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
1,3,5-Trimethylbenzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
tert-Butylbenzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
1,2,4-Trimethylbenzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
sec-Butylbenzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
1,3-Dichlorobenzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
p-Isopropyltoluene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
1,4-Dichlorobenzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
1,2-Dichlorobenzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
n-Butylbenzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
Hexachlorobutadiene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Naphthalene	ND	2.0	EPA 8260D	12-17-21	12-17-21	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>78-125</i>				



Date of Report: December 17, 2021
 Samples Submitted: December 16, 2021
 Laboratory Reference: 2112-167
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5R-121621					
Laboratory ID:	12-167-03					
Dichlorodifluoromethane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Chloromethane	ND	4.0	EPA 8260D	12-17-21	12-17-21	
Vinyl Chloride	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Bromomethane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Chloroethane	ND	4.0	EPA 8260D	12-17-21	12-17-21	
Trichlorofluoromethane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,1-Dichloroethene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Acetone	290	20	EPA 8260D	12-17-21	12-17-21	
Iodomethane	ND	20	EPA 8260D	12-17-21	12-17-21	
Carbon Disulfide	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Methylene Chloride	ND	4.0	EPA 8260D	12-17-21	12-17-21	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Methyl t-Butyl Ether	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,1-Dichloroethane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Vinyl Acetate	ND	4.0	EPA 8260D	12-17-21	12-17-21	
2,2-Dichloropropane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
(cis) 1,2-Dichloroethene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
2-Butanone	43	20	EPA 8260D	12-17-21	12-17-21	
Bromochloromethane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Chloroform	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,1,1-Trichloroethane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Carbon Tetrachloride	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,1-Dichloropropene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Benzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,2-Dichloroethane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Trichloroethene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,2-Dichloropropane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Dibromomethane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Bromodichloromethane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
(cis) 1,3-Dichloropropene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Methyl Isobutyl Ketone	ND	8.0	EPA 8260D	12-17-21	12-17-21	
Toluene	ND	4.0	EPA 8260D	12-17-21	12-17-21	
(trans) 1,3-Dichloropropene	ND	0.80	EPA 8260D	12-17-21	12-17-21	



Date of Report: December 17, 2021
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5R-121621					
Laboratory ID:	12-167-03					
1,1,2-Trichloroethane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Tetrachloroethene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,3-Dichloropropane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
2-Hexanone	ND	8.0	EPA 8260D	12-17-21	12-17-21	
Dibromochloromethane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,2-Dibromoethane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Chlorobenzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,1,1,2-Tetrachloroethane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Ethylbenzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
m,p-Xylene	ND	1.6	EPA 8260D	12-17-21	12-17-21	
o-Xylene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Styrene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Bromoform	ND	4.0	EPA 8260D	12-17-21	12-17-21	
Isopropylbenzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Bromobenzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,1,2,2-Tetrachloroethane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,2,3-Trichloropropane	ND	0.80	EPA 8260D	12-17-21	12-17-21	
n-Propylbenzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
2-Chlorotoluene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
4-Chlorotoluene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,3,5-Trimethylbenzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
tert-Butylbenzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,2,4-Trimethylbenzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
sec-Butylbenzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,3-Dichlorobenzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
p-Isopropyltoluene	2.5	0.80	EPA 8260D	12-17-21	12-17-21	
1,4-Dichlorobenzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,2-Dichlorobenzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
n-Butylbenzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
1,2-Dibromo-3-chloropropane	ND	4.0	EPA 8260D	12-17-21	12-17-21	
1,2,4-Trichlorobenzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
Hexachlorobutadiene	ND	4.0	EPA 8260D	12-17-21	12-17-21	
Naphthalene	ND	4.0	EPA 8260D	12-17-21	12-17-21	
1,2,3-Trichlorobenzene	ND	0.80	EPA 8260D	12-17-21	12-17-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: December 17, 2021
 Samples Submitted: December 16, 2021
 Laboratory Reference: 2112-167
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1217W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Chloromethane	ND	1.0	EPA 8260D	12-17-21	12-17-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Bromomethane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Chloroethane	ND	1.0	EPA 8260D	12-17-21	12-17-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Acetone	ND	5.0	EPA 8260D	12-17-21	12-17-21	
Iodomethane	ND	5.0	EPA 8260D	12-17-21	12-17-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-17-21	12-17-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-17-21	12-17-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
2-Butanone	ND	5.0	EPA 8260D	12-17-21	12-17-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Chloroform	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Benzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Trichloroethene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Dibromomethane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Toluene	ND	1.0	EPA 8260D	12-17-21	12-17-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-17-21	12-17-21	



Date of Report: December 17, 2021
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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1217W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
2-Hexanone	ND	2.0	EPA 8260D	12-17-21	12-17-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-17-21	12-17-21	
o-Xylene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Styrene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Bromoform	ND	1.0	EPA 8260D	12-17-21	12-17-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Bromobenzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-17-21	12-17-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-17-21	12-17-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-17-21	12-17-21	
Naphthalene	ND	1.0	EPA 8260D	12-17-21	12-17-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-17-21	12-17-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>78-125</i>				



Date of Report: December 17, 2021
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 Laboratory Reference: 2112-167
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1217W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.37	9.17	10.0	10.0	94	92	78-125	2	19	
Benzene	9.05	8.83	10.0	10.0	91	88	80-119	2	16	
Trichloroethene	8.86	8.90	10.0	10.0	89	89	80-121	0	18	
Toluene	8.56	8.49	10.0	10.0	86	85	80-117	1	18	
Chlorobenzene	9.47	9.33	10.0	10.0	95	93	80-117	1	17	
<i>Surrogate:</i>										
Dibromofluoromethane					102	101	75-127			
Toluene-d8					99	100	80-127			
4-Bromofluorobenzene					96	98	78-125			





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Onsite Environmental Inc.

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

Chain of Custody

Turnaround Request
(In working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: 12-167

Company: Aspect Consulting

Project Number: 0600172

Project Name: Spic n' Span

Project Manager: Jeremy Pater

Sampled by: MMR

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MMW-11-121021	12/10/21	1040	water	5
2	MMW-12-121021	↓	1130	↓	
3	MMW-5R-121021	↓	1230	↓	

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx*	NWTPH-Dx (<input type="checkbox"/> 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	% Moisture
5			*		X													

Signature	Company	Date	Time	Comments/Special Instructions
<u>Jeremy Pater</u>	<u>Aspect</u>	<u>12/10/21</u>	<u>1445</u>	<u>*HOLD all samples for NWTPH-Gx</u>
<u>J.Pater</u>	<u>ASE</u>	<u>12/16/21</u>	<u>1445</u>	

Relinquished

Received

Relinquished

Received

Relinquished

Received

Relinquished

Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

January 14, 2022

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2201-077

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on January 11, 2022.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: January 14, 2022
Samples Submitted: January 11, 2022
Laboratory Reference: 2201-077
Project: 060172

Case Narrative

Samples were collected on January 10 and 11, 2022 and received by the laboratory on January 11, 2022. 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: January 14, 2022
 Samples Submitted: January 11, 2022
 Laboratory Reference: 2201-077
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-08-19.5-011022					
Laboratory ID:	01-077-02					
Gasoline	ND	8.3	NWTPH-Gx	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	109	66-129				
Client ID:	CB-08-27-011022					
Laboratory ID:	01-077-03					
Gasoline	ND	5.0	NWTPH-Gx	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	109	66-129				
Client ID:	CB-14-20-011022					
Laboratory ID:	01-077-04					
Gasoline	ND	5.4	NWTPH-Gx	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	112	66-129				
Client ID:	CB-14-22-011022					
Laboratory ID:	01-077-05					
Gasoline	ND	5.8	NWTPH-Gx	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	110	66-129				
Client ID:	CB-14-24.5-011022					
Laboratory ID:	01-077-06					
Gasoline	ND	6.4	NWTPH-Gx	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	113	66-129				



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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:	MB0112S1					
Gasoline	ND	5.0	NWTPH-Gx	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	99	66-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-084-03							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				96	102	66-129		



Date of Report: January 14, 2022
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 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-08-19.5-011022					
Laboratory ID:	01-077-02					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Acetone	0.15	0.012	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	0.0051	0.0012	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Butanone	0.028	0.0058	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-08-19.5-011022					
Laboratory ID:	01-077-02					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0023	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Naphthalene	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-08-27-011022					
Laboratory ID:	01-077-03					
Dichlorodifluoromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Acetone	0.15	0.0097	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Butanone	0.030	0.0048	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-08-27-011022					
Laboratory ID:	01-077-03					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0019	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	0.0011	0.00097	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Naphthalene	0.015	0.0048	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-13-24.5-011022					
Laboratory ID:	01-077-07					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Acetone	0.098	0.012	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	0.0043	0.0012	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Butanone	0.014	0.0060	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	



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 Samples Submitted: January 11, 2022
 Laboratory Reference: 2201-077
 Project: 060172

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-13-24.5-011022					
Laboratory ID:	01-077-07					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0024	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Naphthalene	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-130</i>				



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 Samples Submitted: January 11, 2022
 Laboratory Reference: 2201-077
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-06-24-011122					
Laboratory ID:	01-077-08					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Acetone	0.21	0.012	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Butanone	0.038	0.0059	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-06-24-011122					
Laboratory ID:	01-077-08					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0023	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Naphthalene	0.037	0.0059	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-07-15.5-011122					
Laboratory ID:	01-077-09					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Acetone	0.49	0.011	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
2-Butanone	0.056	0.0053	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-07-15.5-011122					
Laboratory ID:	01-077-09					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	0.014	0.0011	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0021	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Naphthalene	0.042	0.0053	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-130</i>				



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 Samples Submitted: January 11, 2022
 Laboratory Reference: 2201-077
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-07-19-011122					
Laboratory ID:	01-077-10					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Acetone	0.31	0.012	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Butanone	0.050	0.0060	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-07-19-011122					
Laboratory ID:	01-077-10					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	0.0013	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0024	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Naphthalene	0.12	0.0060	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-130</i>				



Date of Report: January 14, 2022
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 Laboratory Reference: 2201-077
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-07-26.5-011122					
Laboratory ID:	01-077-11					
Dichlorodifluoromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Acetone	1.4	0.47	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	0.0029	0.00097	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	0.0023	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Butanone	0.12	0.0048	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-07-26.5-011122					
Laboratory ID:	01-077-11					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	0.0016	0.00097	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0019	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	0.0012	0.00097	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	0.0050	0.00097	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Naphthalene	0.0094	0.0048	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0112S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Acetone	ND	0.010	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
2-Butanone	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0112S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0020	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Naphthalene	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0113S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Acetone	ND	0.010	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	0.0069	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Butanone	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Benzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0113S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	0.0020	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Naphthalene	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
<i>Dibromofluoromethane</i>	<i>102</i>		<i>74-131</i>			
<i>Toluene-d8</i>	<i>101</i>		<i>78-128</i>			
<i>4-Bromofluorobenzene</i>	<i>102</i>		<i>71-130</i>			



Date of Report: January 14, 2022
 Samples Submitted: January 11, 2022
 Laboratory Reference: 2201-077
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0112S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0499	0.0503	0.0500	0.0500	100	101	71-131	1	19	
Benzene	0.0495	0.0511	0.0500	0.0500	99	102	73-124	3	18	
Trichloroethene	0.0511	0.0523	0.0500	0.0500	102	105	79-130	2	18	
Toluene	0.0496	0.0503	0.0500	0.0500	99	101	76-123	1	18	
Chlorobenzene	0.0484	0.0490	0.0500	0.0500	97	98	78-122	1	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					105	105	74-131			
<i>Toluene-d8</i>					103	103	78-128			
<i>4-Bromofluorobenzene</i>					105	103	71-130			
Laboratory ID:	SB0113S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0520	0.0528	0.0500	0.0500	104	106	71-131	2	19	
Benzene	0.0511	0.0533	0.0500	0.0500	102	107	73-124	4	18	
Trichloroethene	0.0530	0.0551	0.0500	0.0500	106	110	79-130	4	18	
Toluene	0.0505	0.0512	0.0500	0.0500	101	102	76-123	1	18	
Chlorobenzene	0.0496	0.0508	0.0500	0.0500	99	102	78-122	2	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					101	104	74-131			
<i>Toluene-d8</i>					102	102	78-128			
<i>4-Bromofluorobenzene</i>					108	107	71-130			



Date of Report: January 14, 2022
Samples Submitted: January 11, 2022
Laboratory Reference: 2201-077
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
CB-08-19.5-011022	01-077-02	26	1-12-22
CB-08-27-011022	01-077-03	12	1-12-22
CB-14-20-011022	01-077-04	15	1-12-22
CB-14-22-011022	01-077-05	13	1-12-22
CB-14-24.5-011022	01-077-06	21	1-12-22
CB-13-24.5-011022	01-077-07	13	1-12-22
CB-06-24-011122	01-077-08	24	1-12-22
CB-07-15.5-011122	01-077-09	21	1-12-22
CB-07-19-011122	01-077-10	17	1-12-22
CB-07-26.5-011122	01-077-11	11	1-12-22





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MVA 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

Laboratory Number: **01-077**

Company: Aspect Consulting
Project Number: 060172
Project Name: Spic n' Span
Project Manager: Jeremy Parker
Sampled by: RAC / AWB

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	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260 <u>PC</u>	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	% Moisture
1	CB-02-3-011022	1/10/22	1100	Soil	5			X		X													X
2	CB-08-14.5-011022		1300					X		X													X
3	CB-08-27-011022		1330					X		X													X
4	CB-14-20-011022		1530					X		X													X
5	CB-14-22-011022		1600					X		X													X
6	CB-14-24.5-011022		1615					X		X													X
7	CB-13-24.5-011022		1700					X		X													X
8	CB-06-24-011122	1/11/22	1445							X													X
9	CB-07-15.5-011122		1400							X													X
10	CB-07-19-011122		1415							X													X

Signature: Anthony P. Garcia Company: Aspect Consulting Date: 01/11/22 Time: 1615
 Signature: Nicole R. Spivey Company: OSE Date: 1/11/22 Time: 1415

Relinquished
Received
Relinquished
Received
Relinquished
Received
Reviewed/Date _____

Reviewed/Date _____

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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

January 14, 2022

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2201-094

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on January 12, 2022.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: January 14, 2022
Samples Submitted: January 12, 2022
Laboratory Reference: 2201-094
Project: 060172

Case Narrative

Samples were collected on January 12, 2022 and received by the laboratory on January 12, 2022. 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-Gx Analysis - Water

The chromatograms for samples MW-3R-011222, MW-2R-011222, and VE-1R-011222 are not similar to a typical gas.

NWTPH-Gx Analysis - Soil

The chromatogram for sample CB-11-20-011222 is similar to mineral spirits.

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: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-011222					
Laboratory ID:	01-094-01					
Gasoline	ND	100	NWTPH-Gx	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	66-117				
Client ID:	MW-3R-011222					
Laboratory ID:	01-094-02					
Gasoline	130	100	NWTPH-Gx	1-13-22	1-13-22	T
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	66-117				
Client ID:	MW-2R-011222					
Laboratory ID:	01-094-03					
Gasoline	350	100	NWTPH-Gx	1-13-22	1-13-22	T
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	66-117				
Client ID:	VE-1R-011222					
Laboratory ID:	01-094-04					
Gasoline	180	100	NWTPH-Gx	1-13-22	1-13-22	T
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	66-117				



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0113W1					
Gasoline	ND	100	NWTPH-Gx	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	99	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-094-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				98	98	66-117		



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-11-20-011222					
Laboratory ID:	01-094-05					
Gasoline	8.1	4.8	NWTPH-Gx	1-13-22	1-13-22	Z
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	109	66-129				
Client ID:	CB-11-24-011222					
Laboratory ID:	01-094-06					
Gasoline	ND	4.8	NWTPH-Gx	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	96	66-129				



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

**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:	MB0113S1					
Gasoline	ND	5.0	NWTPH-Gx	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	97	66-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-094-05							
	ORIG	DUP						
Gasoline	6.41	5.07	NA	NA	NA	NA	23	30
<i>Surrogate:</i>								
Fluorobenzene				109	111	66-129		



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-011222					
Laboratory ID:	01-094-01					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	10	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	10	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Acetone	650	50	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	63	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	10	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	10	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	32	2.0	EPA 8260D	1-13-22	1-13-22	
2-Butanone	120	50	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Benzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	2.2	2.0	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	5.6	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	2.5	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	20	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	10	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-011222					
Laboratory ID:	01-094-01					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	4.0	2.0	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	20	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	4.0	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	10	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	2.6	2.0	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	10	EPA 8260D	1-13-22	1-13-22	
Naphthalene	170	10	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-125</i>				



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date	Date	Flags
				Prepared	Analyzed	
Client ID:	MW-3R-011222					
Laboratory ID:	01-094-02					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	10	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	10	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Acetone	860	50	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	63	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	10	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	10	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Butanone	150	50	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Benzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	2.5	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	20	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	10	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3R-011222					
Laboratory ID:	01-094-02					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	20	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	4.0	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	10	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	3.5	2.0	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	10	EPA 8260D	1-13-22	1-13-22	
Naphthalene	16	10	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>78-125</i>				



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 Laboratory Reference: 2201-094
 Project: 060172

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2R-011222					
Laboratory ID:	01-094-03					
Dichlorodifluoromethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	4.0	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	2.5	0.80	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	4.0	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Acetone	400	20	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	25	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	4.0	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	0.93	0.80	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	4.0	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	52	0.80	EPA 8260D	1-13-22	1-13-22	
2-Butanone	98	20	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Benzene	2.1	0.80	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	4.8	0.80	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	1.0	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	8.0	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	4.0	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	0.80	EPA 8260D	1-13-22	1-13-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2R-011222					
Laboratory ID:	01-094-03					
1,1,2-Trichloroethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	8.0	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	1.7	0.80	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	3.4	1.6	EPA 8260D	1-13-22	1-13-22	
o-Xylene	1.5	0.80	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	4.0	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	0.98	0.80	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	3.9	0.80	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	1.2	0.80	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	9.4	0.80	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	1.3	0.80	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	3.5	0.80	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	2.8	0.80	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	4.0	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	4.0	EPA 8260D	1-13-22	1-13-22	
Naphthalene	74	4.0	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



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 Project: 060172

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date	Date	Flags
				Prepared	Analyzed	
Client ID:	VE-1R-011222					
Laboratory ID:	01-094-04					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	10	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	10	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Acetone	430	50	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	63	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	10	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	10	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Butanone	97	50	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Benzene	3.3	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	2.5	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	20	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	10	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	VE-1R-011222					
Laboratory ID:	01-094-04					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	20	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	4.0	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	10	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	2.8	2.0	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	10	EPA 8260D	1-13-22	1-13-22	
Naphthalene	96	10	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-125</i>				



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0113W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	1.0	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	1.0	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Acetone	ND	5.0	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	6.3	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	1.0	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	1.0	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
2-Butanone	ND	5.0	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Benzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	0.25	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	1.0	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-13-22	1-13-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0113W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	0.40	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	1.0	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	1-13-22	1-13-22	
Naphthalene	ND	1.0	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>78-125</i>				



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 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0113W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	11.1	10.0	10.0	107	111	78-125	4	19	
Benzene	10.3	10.5	10.0	10.0	103	105	80-119	2	16	
Trichloroethene	9.17	9.36	10.0	10.0	92	94	80-121	2	18	
Toluene	8.85	8.95	10.0	10.0	89	90	80-117	1	18	
Chlorobenzene	8.89	9.11	10.0	10.0	89	91	80-117	2	17	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					108	110	75-127			
<i>Toluene-d8</i>					103	104	80-127			
<i>4-Bromofluorobenzene</i>					102	104	78-125			



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
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 Project: 060172

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-11-20-011222					
Laboratory ID:	01-094-05					
Dichlorodifluoromethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Acetone	0.20	0.0060	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	0.0041	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
2-Butanone	0.033	0.0030	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Benzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
2-Chloroethyl Vinyl Ether	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-11-20-011222					
Laboratory ID:	01-094-05					
1,1,2-Trichloroethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	0.0012	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	0.00081	0.00060	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	0.0019	0.00060	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	0.0013	0.00060	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
Naphthalene	0.030	0.0030	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-11-24-011222					
Laboratory ID:	01-094-06					
Dichlorodifluoromethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Acetone	0.80	0.55	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	0.010	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	0.0018	0.0015	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
2-Butanone	0.13	0.0075	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Benzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
2-Chloroethyl Vinyl Ether	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-11-24-011222					
Laboratory ID:	01-094-06					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	0.0031	0.0015	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	0.0077	0.0015	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	0.0058	0.0015	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	0.0020	0.0015	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	0.0051	0.0015	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
Naphthalene	0.25	0.0075	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-130</i>				



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

**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:	MB0113S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Acetone	ND	0.010	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	0.0069	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Butanone	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Benzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0113S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	0.0020	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Naphthalene	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-130</i>				



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0113S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0520	0.0528	0.0500	0.0500	104	106	71-131	2	19	
Benzene	0.0511	0.0533	0.0500	0.0500	102	107	73-124	4	18	
Trichloroethene	0.0530	0.0551	0.0500	0.0500	106	110	79-130	4	18	
Toluene	0.0505	0.0512	0.0500	0.0500	101	102	76-123	1	18	
Chlorobenzene	0.0496	0.0508	0.0500	0.0500	99	102	78-122	2	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>101</i>	<i>104</i>	<i>74-131</i>			
<i>Toluene-d8</i>					<i>102</i>	<i>102</i>	<i>78-128</i>			
<i>4-Bromofluorobenzene</i>					<i>108</i>	<i>107</i>	<i>71-130</i>			



Date of Report: January 14, 2022
Samples Submitted: January 12, 2022
Laboratory Reference: 2201-094
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
CB-11-20-011222	01-094-05	21	1-13-22
CB-11-24-011222	01-094-06	23	1-13-22





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 gas.
 - 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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z - The sample chromatogram is similar to mineral spirits.
- 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) 883-3981 • www.onsite-env.com

Chain of Custody

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

(other) _____

Laboratory Number: 01-094

Company: **Aspect Consulting**
 Project Number: **0100172**
 Project Name: **SPIC N SPAN**
 Project Manager: **Terejany Porter**
 Sampled by: **AUP/BC**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW-10-011222	11/2/22	1140	W	6
2	MW-3R-011222		1310		
3	MW-2R-011222		1315		
4	MW/VEIR-011222		1440		
5	CB-11-20-011222		1100	S	5
6	CB-11-24-011222		1115	S	5

Parameter	1	2	3	4	5	6
NWTPH-HCID						
NWTPH-Gx/BTEX						
NWTPH-Gx	X					
NWTPH-Dx (<input type="checkbox"/> 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						
0928 8260C	X	X	X	X	X	
% Moisture						

Signature	Company	Date	Time	Comments/Special Instructions
<i>Ashley Ferguson</i>	Aspect Consulting	11/2/22	1000	
<i>AUP/BC</i>	OSE	11/2/22	1600	

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

January 27, 2022

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2201-212

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on January 26, 2022.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: January 27, 2022
Samples Submitted: January 26, 2022
Laboratory Reference: 2201-212
Project: 060172

Case Narrative

Samples were collected on January 26, 2022 and received by the laboratory on January 26, 2022. 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: January 27, 2022
 Samples Submitted: January 26, 2022
 Laboratory Reference: 2201-212
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-012622					
Laboratory ID:	01-212-01					
Dichlorodifluoromethane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Chloromethane	ND	20	EPA 8260D	1-26-22	1-26-22	
Vinyl Chloride	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Bromomethane	ND	20	EPA 8260D	1-26-22	1-26-22	
Chloroethane	ND	20	EPA 8260D	1-26-22	1-26-22	
Trichlorofluoromethane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloroethene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Acetone	1000	100	EPA 8260D	1-26-22	1-26-22	
Iodomethane	ND	100	EPA 8260D	1-26-22	1-26-22	
Carbon Disulfide	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Methylene Chloride	ND	20	EPA 8260D	1-26-22	1-26-22	
(trans) 1,2-Dichloroethene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Methyl t-Butyl Ether	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloroethane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Vinyl Acetate	ND	20	EPA 8260D	1-26-22	1-26-22	
2,2-Dichloropropane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
(cis) 1,2-Dichloroethene	44	4.0	EPA 8260D	1-26-22	1-26-22	
2-Butanone	200	100	EPA 8260D	1-26-22	1-26-22	
Bromochloromethane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Chloroform	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,1,1-Trichloroethane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Carbon Tetrachloride	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloropropene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Benzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,2-Dichloroethane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Trichloroethene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,2-Dichloropropane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Dibromomethane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Bromodichloromethane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Methyl Isobutyl Ketone	ND	40	EPA 8260D	1-26-22	1-26-22	
Toluene	ND	20	EPA 8260D	1-26-22	1-26-22	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260D	1-26-22	1-26-22	



Date of Report: January 27, 2022
 Samples Submitted: January 26, 2022
 Laboratory Reference: 2201-212
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-012622					
Laboratory ID:	01-212-01					
1,1,2-Trichloroethane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Tetrachloroethene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,3-Dichloropropane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
2-Hexanone	ND	40	EPA 8260D	1-26-22	1-26-22	
Dibromochloromethane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,2-Dibromoethane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Chlorobenzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Ethylbenzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
m,p-Xylene	ND	8.0	EPA 8260D	1-26-22	1-26-22	
o-Xylene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Styrene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Bromoform	ND	20	EPA 8260D	1-26-22	1-26-22	
Isopropylbenzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Bromobenzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,2,3-Trichloropropane	ND	4.0	EPA 8260D	1-26-22	1-26-22	
n-Propylbenzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
2-Chlorotoluene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
4-Chlorotoluene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,3,5-Trimethylbenzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
tert-Butylbenzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,2,4-Trimethylbenzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
sec-Butylbenzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,3-Dichlorobenzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
p-Isopropyltoluene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,4-Dichlorobenzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,2-Dichlorobenzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
n-Butylbenzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260D	1-26-22	1-26-22	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
Hexachlorobutadiene	ND	20	EPA 8260D	1-26-22	1-26-22	
Naphthalene	130	20	EPA 8260D	1-26-22	1-26-22	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260D	1-26-22	1-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: January 27, 2022
 Samples Submitted: January 26, 2022
 Laboratory Reference: 2201-212
 Project: 060172

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2R-012622					
Laboratory ID:	01-212-02					
Dichlorodifluoromethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Chloromethane	ND	5.0	EPA 8260D	1-26-22	1-26-22	
Vinyl Chloride	3.4	1.0	EPA 8260D	1-26-22	1-26-22	
Bromomethane	ND	5.0	EPA 8260D	1-26-22	1-26-22	
Chloroethane	ND	5.0	EPA 8260D	1-26-22	1-26-22	
Trichlorofluoromethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloroethene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Acetone	380	25	EPA 8260D	1-26-22	1-26-22	
Iodomethane	ND	25	EPA 8260D	1-26-22	1-26-22	
Carbon Disulfide	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Methylene Chloride	ND	5.0	EPA 8260D	1-26-22	1-26-22	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Methyl t-Butyl Ether	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloroethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Vinyl Acetate	ND	5.0	EPA 8260D	1-26-22	1-26-22	
2,2-Dichloropropane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
(cis) 1,2-Dichloroethene	55	1.0	EPA 8260D	1-26-22	1-26-22	
2-Butanone	81	25	EPA 8260D	1-26-22	1-26-22	
Bromochloromethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Chloroform	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,1,1-Trichloroethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Carbon Tetrachloride	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloropropene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Benzene	2.5	1.0	EPA 8260D	1-26-22	1-26-22	
1,2-Dichloroethane	1.2	1.0	EPA 8260D	1-26-22	1-26-22	
Trichloroethene	3.9	1.0	EPA 8260D	1-26-22	1-26-22	
1,2-Dichloropropane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Dibromomethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Bromodichloromethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Methyl Isobutyl Ketone	ND	10	EPA 8260D	1-26-22	1-26-22	
Toluene	ND	5.0	EPA 8260D	1-26-22	1-26-22	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260D	1-26-22	1-26-22	



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 Project: 060172

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2R-012622					
Laboratory ID:	01-212-02					
1,1,2-Trichloroethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Tetrachloroethene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,3-Dichloropropane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
2-Hexanone	ND	10	EPA 8260D	1-26-22	1-26-22	
Dibromochloromethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,2-Dibromoethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Chlorobenzene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Ethylbenzene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
m,p-Xylene	ND	2.0	EPA 8260D	1-26-22	1-26-22	
o-Xylene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Styrene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Bromoform	ND	5.0	EPA 8260D	1-26-22	1-26-22	
Isopropylbenzene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Bromobenzene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,2,3-Trichloropropane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
n-Propylbenzene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
2-Chlorotoluene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
4-Chlorotoluene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,3,5-Trimethylbenzene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
tert-Butylbenzene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,2,4-Trimethylbenzene	2.4	1.0	EPA 8260D	1-26-22	1-26-22	
sec-Butylbenzene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
p-Isopropyltoluene	7.9	1.0	EPA 8260D	1-26-22	1-26-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
n-Butylbenzene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260D	1-26-22	1-26-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Hexachlorobutadiene	ND	5.0	EPA 8260D	1-26-22	1-26-22	
Naphthalene	230	5.0	EPA 8260D	1-26-22	1-26-22	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



Date of Report: January 27, 2022
 Samples Submitted: January 26, 2022
 Laboratory Reference: 2201-212
 Project: 060172

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4-012622					
Laboratory ID:	01-212-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Chloromethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Vinyl Chloride	9.6	0.20	EPA 8260D	1-26-22	1-26-22	
Bromomethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Chloroethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Acetone	ND	5.0	EPA 8260D	1-26-22	1-26-22	
Iodomethane	ND	5.0	EPA 8260D	1-26-22	1-26-22	
Carbon Disulfide	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Methylene Chloride	6.0	1.0	EPA 8260D	1-26-22	1-26-22	
(trans) 1,2-Dichloroethene	0.24	0.20	EPA 8260D	1-26-22	1-26-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Vinyl Acetate	ND	1.0	EPA 8260D	1-26-22	1-26-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
(cis) 1,2-Dichloroethene	36	0.20	EPA 8260D	1-26-22	1-26-22	
2-Butanone	ND	5.0	EPA 8260D	1-26-22	1-26-22	
Bromochloromethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Chloroform	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Benzene	0.60	0.20	EPA 8260D	1-26-22	1-26-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Trichloroethene	0.22	0.20	EPA 8260D	1-26-22	1-26-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Dibromomethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Bromodichloromethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	1-26-22	1-26-22	
Toluene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-26-22	1-26-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4-012622					
Laboratory ID:	01-212-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Tetrachloroethene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
2-Hexanone	ND	2.0	EPA 8260D	1-26-22	1-26-22	
Dibromochloromethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Chlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	1-26-22	1-26-22	
o-Xylene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Styrene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Bromoform	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Isopropylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Bromobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
n-Propylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
n-Butylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Naphthalene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>78-125</i>				



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 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0126W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Chloromethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Vinyl Chloride	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Bromomethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Chloroethane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Acetone	ND	5.0	EPA 8260D	1-26-22	1-26-22	
Iodomethane	ND	5.0	EPA 8260D	1-26-22	1-26-22	
Carbon Disulfide	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Methylene Chloride	ND	1.0	EPA 8260D	1-26-22	1-26-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Vinyl Acetate	ND	1.0	EPA 8260D	1-26-22	1-26-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
2-Butanone	ND	5.0	EPA 8260D	1-26-22	1-26-22	
Bromochloromethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Chloroform	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Benzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Trichloroethene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Dibromomethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Bromodichloromethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	1-26-22	1-26-22	
Toluene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-26-22	1-26-22	



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 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0126W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Tetrachloroethene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
2-Hexanone	ND	2.0	EPA 8260D	1-26-22	1-26-22	
Dibromochloromethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Chlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	1-26-22	1-26-22	
o-Xylene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Styrene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Bromoform	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Isopropylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Bromobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	1-26-22	1-26-22	
n-Propylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
n-Butylbenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
Naphthalene	ND	1.0	EPA 8260D	1-26-22	1-26-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	1-26-22	1-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: January 27, 2022
 Samples Submitted: January 26, 2022
 Laboratory Reference: 2201-212
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0126W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.5	11.7	10.0	10.0	115	117	78-125	2	19	
Benzene	11.6	11.8	10.0	10.0	116	118	80-119	2	16	
Trichloroethene	11.0	11.2	10.0	10.0	110	112	80-121	2	18	
Toluene	10.7	10.9	10.0	10.0	107	109	80-117	2	18	
Chlorobenzene	10.6	10.9	10.0	10.0	106	109	80-117	3	17	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					109	109	75-127			
<i>Toluene-d8</i>					102	101	80-127			
<i>4-Bromofluorobenzene</i>					99	98	78-125			





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Soil



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

November 24, 2021

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2111-217

Dear Jeremy:

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

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 24, 2021
Samples Submitted: November 19, 2021
Laboratory Reference: 2111-217
Project: 060172

Case Narrative

Samples were collected on November 18 and 19, 2021 and received by the laboratory on November 19, 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-Gx Analysis

The chromatograms for samples CB-14-21-111921 and CB-14-22-111921 are similar to mineral spirits.

The surrogate percent recovery is outside control limits on the high end for samples CB-04-15-111821, CB-04-23.5-111821, CB-04-26.5-111821, CB-01-13-111821, CB-01-19-111821, and CB-13-16-111921. Because the samples are non-detect, no further action will be taken.

Volatiles EPA 8260D Analysis

The value reported for Acetone in samples CB-03-7-111821, CB-03-8-111821, CB-03-21-111821, CB-03-26-111821, CB-02-22-111821, CB-01-19-111821, CB-14-13-111921 and CB-12-17-111921 exceeds the calibration range and is therefore an estimate. The samples were re-analyzed at the lowest possible dilution allowed by Method 5035A with non-detect results for Acetone.

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: November 24, 2021
 Samples Submitted: November 19, 2021
 Laboratory Reference: 2111-217
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-04-8.5-111821					
Laboratory ID:	11-217-01					
Gasoline	ND	6.1	NWTPH-Gx	11-21-21	11-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	113	66-129				
Client ID:	CB-04-13-111821					
Laboratory ID:	11-217-02					
Gasoline	ND	6.5	NWTPH-Gx	11-21-21	11-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	114	66-129				
Client ID:	CB-04-15-111821					
Laboratory ID:	11-217-03					
Gasoline	ND	8.5	NWTPH-Gx	11-21-21	11-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	132	66-129				
						Q
Client ID:	CB-04-23.5-111821					
Laboratory ID:	11-217-04					
Gasoline	ND	7.6	NWTPH-Gx	11-21-21	11-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	133	66-129				
						Q
Client ID:	CB-04-26.5-111821					
Laboratory ID:	11-217-05					
Gasoline	ND	8.0	NWTPH-Gx	11-21-21	11-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	132	66-129				
						Q
Client ID:	CB-05-7-111821					
Laboratory ID:	11-217-06					
Gasoline	ND	7.8	NWTPH-Gx	11-21-21	11-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	124	66-129				
Client ID:	CB-05-12-111821					
Laboratory ID:	11-217-07					
Gasoline	ND	7.4	NWTPH-Gx	11-21-21	11-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	123	66-129				



Date of Report: November 24, 2021
 Samples Submitted: November 19, 2021
 Laboratory Reference: 2111-217
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-05-18-111821					
Laboratory ID:	11-217-08					
Gasoline	ND	5.4	NWTPH-Gx	11-21-21	11-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	118	66-129				
Client ID:	CB-05-27.5-111821					
Laboratory ID:	11-217-09					
Gasoline	ND	4.8	NWTPH-Gx	11-21-21	11-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	116	66-129				
Client ID:	CB-03-7-111821					
Laboratory ID:	11-217-10					
Gasoline	ND	10	NWTPH-Gx	11-21-21	11-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	117	66-129				
Client ID:	CB-03-8-111821					
Laboratory ID:	11-217-11					
Gasoline	ND	7.2	NWTPH-Gx	11-21-21	11-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	114	66-129				
Client ID:	CB-03-21-111821					
Laboratory ID:	11-217-12					
Gasoline	ND	5.5	NWTPH-Gx	11-21-21	11-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	123	66-129				
Client ID:	CB-03-26-111821					
Laboratory ID:	11-217-13					
Gasoline	ND	4.9	NWTPH-Gx	11-21-21	11-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	114	66-129				
Client ID:	CB-02-8-111821					
Laboratory ID:	11-217-14					
Gasoline	ND	7.2	NWTPH-Gx	11-21-21	11-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	109	66-129				



Date of Report: November 24, 2021
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 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	
Client ID:	CB-02-13-111821						
Laboratory ID:	11-217-15						
Gasoline	ND	7.7	NWTPH-Gx	11-21-21	11-21-21		
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>					
<i>Fluorobenzene</i>	118	66-129					
Client ID:	CB-02-21-111821						
Laboratory ID:	11-217-16						
Gasoline	ND	6.1	NWTPH-Gx	11-21-21	11-21-21		
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>					
<i>Fluorobenzene</i>	116	66-129					
Client ID:	CB-02-22-111821						
Laboratory ID:	11-217-17						
Gasoline	ND	4.5	NWTPH-Gx	11-21-21	11-21-21		
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>					
<i>Fluorobenzene</i>	116	66-129					
Client ID:	CB-01-7-111821						
Laboratory ID:	11-217-18						
Gasoline	ND	6.2	NWTPH-Gx	11-21-21	11-21-21		
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>					
<i>Fluorobenzene</i>	116	66-129					
Client ID:	CB-01-13-111821						
Laboratory ID:	11-217-19						
Gasoline	ND	8.7	NWTPH-Gx	11-21-21	11-21-21		
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>					
<i>Fluorobenzene</i>	133	66-129					Q
Client ID:	CB-01-19-111821						
Laboratory ID:	11-217-20						
Gasoline	ND	10	NWTPH-Gx	11-21-21	11-21-21		
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>					
<i>Fluorobenzene</i>	137	66-129					Q
Client ID:	CB-01-23-111821						
Laboratory ID:	11-217-21						
Gasoline	ND	5.0	NWTPH-Gx	11-21-21	11-21-21		
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>					
<i>Fluorobenzene</i>	114	66-129					



Date of Report: November 24, 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:	CB-13-5-111921					
Laboratory ID:	11-217-22					
Gasoline	ND	6.2	NWTPH-Gx	11-21-21	11-21-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	115	66-129				
Client ID:	CB-13-8-111921					
Laboratory ID:	11-217-23					
Gasoline	ND	5.6	NWTPH-Gx	11-21-21	11-21-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	115	66-129				
Client ID:	CB-13-16-111921					
Laboratory ID:	11-217-24					
Gasoline	ND	6.5	NWTPH-Gx	11-21-21	11-21-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	138	66-129				Q
Client ID:	CB-13-20-111921					
Laboratory ID:	11-217-25					
Gasoline	ND	6.5	NWTPH-Gx	11-21-21	11-22-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	118	66-129				
Client ID:	CB-14-6-111921					
Laboratory ID:	11-217-26					
Gasoline	ND	7.5	NWTPH-Gx	11-21-21	11-22-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	116	66-129				
Client ID:	CB-14-13-111921					
Laboratory ID:	11-217-27					
Gasoline	ND	6.6	NWTPH-Gx	11-21-21	11-22-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	112	66-129				
Client ID:	CB-14-21-111921					
Laboratory ID:	11-217-28					
Gasoline	310	36	NWTPH-Gx	11-21-21	11-22-21	Z
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	119	66-129				



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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:	CB-14-22-111921					
Laboratory ID:	11-217-29					
Gasoline	580	77	NWTPH-Gx	11-21-21	11-22-21	Z
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	109	66-129				
Client ID:	CB-12-5-111921					
Laboratory ID:	11-217-30					
Gasoline	ND	5.1	NWTPH-Gx	11-21-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	110	66-129				
Client ID:	CB-12-13-111921					
Laboratory ID:	11-217-31					
Gasoline	ND	4.7	NWTPH-Gx	11-21-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	114	66-129				
Client ID:	CB-12-17-111921					
Laboratory ID:	11-217-32					
Gasoline	ND	8.0	NWTPH-Gx	11-21-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	120	66-129				
Client ID:	CB-12-22-111921					
Laboratory ID:	11-217-33					
Gasoline	ND	5.4	NWTPH-Gx	11-21-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	113	66-129				



Date of Report: November 24, 2021
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 Project: 060172

**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:	MB1121S1					
Gasoline	ND	5.0	NWTPH-Gx	11-21-21	11-21-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	103	66-129				
Laboratory ID:	MB1121S2					
Gasoline	ND	5.0	NWTPH-Gx	11-21-21	11-21-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	112	66-129				
Laboratory ID:	MB1121S3					
Gasoline	ND	5.0	NWTPH-Gx	11-21-21	11-21-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	112	66-129				
Laboratory ID:	MB1121S4					
Gasoline	ND	5.0	NWTPH-Gx	11-21-21	11-21-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	110	66-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-217-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				113	122	66-129		
Laboratory ID:	11-217-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				114	117	66-129		
Laboratory ID:	11-217-03							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				132	139	66-129		Q,Q
Laboratory ID:	11-217-04							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				133	131	66-129		Q,Q



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

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

Date of Report: November 24, 2021
 Samples Submitted: November 19, 2021
 Laboratory Reference: 2111-217
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-04-8.5-111821					
Laboratory ID:	11-217-01					
Dichlorodifluoromethane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0073	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0073	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0073	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Acetone	ND	0.015	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0073	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0073	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0099	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
2-Butanone	ND	0.010	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.012	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0096	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0073	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	



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VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-04-8.5-111821					
Laboratory ID:	11-217-01					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.012	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0029	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0073	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0073	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0073	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0073	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-04-13-111821					
Laboratory ID:	11-217-02					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0052	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0052	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0052	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Acetone	0.35	0.010	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0052	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0052	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0071	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.058	0.0072	EPA 8260D	11-22-21	11-22-21	Y
Bromochloromethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0083	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0069	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0052	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-04-13-111821					
Laboratory ID:	11-217-02					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	0.0021	0.0010	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0084	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0021	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0052	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0052	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0052	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-04-15-111821					
Laboratory ID:	11-217-03					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0058	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0058	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0058	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Acetone	0.11	0.012	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0058	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0058	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0078	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.015	0.0079	EPA 8260D	11-22-21	11-22-21	Y
Bromochloromethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	0.0016	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0091	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0076	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0058	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-04-15-111821					
Laboratory ID:	11-217-03					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	0.016	0.0012	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0092	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0023	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0058	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0058	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0058	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-04-23.5-111821					
Laboratory ID:	11-217-04					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0065	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0065	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0065	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Acetone	0.94	0.79	EPA 8260D	11-23-21	11-23-21	
Iodomethane	ND	0.0065	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	0.0033	0.0013	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0065	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0089	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.16	0.0090	EPA 8260D	11-22-21	11-22-21	Y
Bromochloromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.010	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0086	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0065	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-04-23.5-111821					
Laboratory ID:	11-217-04					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.010	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0026	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0065	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0017	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0065	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0065	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0065	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-04-26.5-111821					
Laboratory ID:	11-217-05					
Dichlorodifluoromethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0068	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0068	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0068	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Acetone	1.5	0.83	EPA 8260D	11-23-21	11-23-21	
Iodomethane	ND	0.0068	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0068	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0093	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.18	0.0094	EPA 8260D	11-22-21	11-22-21	Y
Bromochloromethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.011	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0090	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0068	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-04-26.5-111821					
Laboratory ID:	11-217-05					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.011	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0027	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0068	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0068	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0068	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0068	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-05-7-111821					
Laboratory ID:	11-217-06					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0066	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0066	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0066	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Acetone	0.61	0.013	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0066	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0066	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0090	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	0.0025	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.087	0.0091	EPA 8260D	11-22-21	11-22-21	Y
Bromochloromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	0.0038	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.010	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0087	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0066	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-05-7-111821					
Laboratory ID:	11-217-06					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	0.030	0.0013	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.011	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0026	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0066	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0017	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0066	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0066	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0066	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-05-12-111821					
Laboratory ID:	11-217-07					
Dichlorodifluoromethane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0090	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0090	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0090	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Acetone	0.43	0.018	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0090	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0090	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.012	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.058	0.012	EPA 8260D	11-22-21	11-22-21	Y
Bromochloromethane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	0.0028	0.0018	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.014	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.012	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0090	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0018	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-05-12-111821					
Laboratory ID:	11-217-07					
1,1,2-Trichloroethane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	0.069	0.0018	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.014	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0036	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0090	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.074	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.10	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.11	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	ND	0.074	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.074	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.074	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.074	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	ND	0.074	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.074	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	ND	0.074	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.074	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	ND	0.074	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.074	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	ND	0.074	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	ND	0.074	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.49	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.074	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.37	EPA 8260D	11-23-21	11-23-21	
Naphthalene	ND	0.47	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.074	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>71-130</i>				



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 Laboratory Reference: 2111-217
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-05-18-111821					
Laboratory ID:	11-217-08					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0063	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0063	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0063	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Acetone	0.58	0.013	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0063	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0063	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0085	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.040	0.0086	EPA 8260D	11-22-21	11-22-21	Y
Bromochloromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0099	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0083	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0063	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-05-18-111821					
Laboratory ID:	11-217-08					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.010	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0025	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0063	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0016	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0063	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0063	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-05-27.5-111821					
Laboratory ID:	11-217-09					
Dichlorodifluoromethane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0042	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0042	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0042	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Acetone	0.39	0.0084	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0042	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0042	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0057	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.030	0.0058	EPA 8260D	11-22-21	11-22-21	Y
Bromochloromethane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0055	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0042	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-05-27.5-111821					
Laboratory ID:	11-217-09					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	0.0016	0.00084	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0067	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0017	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0042	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0042	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0042	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-03-7-111821					
Laboratory ID:	11-217-10					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0060	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0060	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0060	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Acetone	0.83	0.012	EPA 8260D	11-22-21	11-22-21	E
Iodomethane	ND	0.0060	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	0.0062	0.0012	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0060	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0081	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.11	0.0083	EPA 8260D	11-22-21	11-22-21	Y
Bromochloromethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Benzene	0.0025	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0095	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0079	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0060	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-03-7-111821					
Laboratory ID:	11-217-10					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0096	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0024	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0060	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0016	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	0.0014	0.0012	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0060	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0060	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-03-8-111821					
Laboratory ID:	11-217-11					
Dichlorodifluoromethane	ND	0.0023	EPA 8260D	11-22-21	11-23-21	
Chloromethane	ND	0.0084	EPA 8260D	11-22-21	11-23-21	
Vinyl Chloride	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Bromomethane	ND	0.0065	EPA 8260D	11-22-21	11-23-21	
Chloroethane	ND	0.0065	EPA 8260D	11-22-21	11-23-21	
Trichlorofluoromethane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,1-Dichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Acetone	1.1	0.013	EPA 8260D	11-22-21	11-23-21	E
Iodomethane	ND	0.0065	EPA 8260D	11-22-21	11-23-21	
Carbon Disulfide	0.0014	0.0013	EPA 8260D	11-22-21	11-23-21	
Methylene Chloride	ND	0.0065	EPA 8260D	11-22-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Vinyl Acetate	ND	0.0065	EPA 8260D	11-22-21	11-23-21	
2,2-Dichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
2-Butanone	0.16	0.0065	EPA 8260D	11-22-21	11-23-21	
Bromochloromethane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Chloroform	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,1-Dichloropropene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Benzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,2-Dichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Trichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,2-Dichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Dibromomethane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Bromodichloromethane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260D	11-22-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0065	EPA 8260D	11-22-21	11-23-21	
Toluene	ND	0.0065	EPA 8260D	11-22-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-03-8-111821					
Laboratory ID:	11-217-11					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Tetrachloroethene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,3-Dichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
2-Hexanone	ND	0.0065	EPA 8260D	11-22-21	11-23-21	
Dibromochloromethane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,2-Dibromoethane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Chlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Ethylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
m,p-Xylene	ND	0.0026	EPA 8260D	11-22-21	11-23-21	
o-Xylene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Styrene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Bromoform	ND	0.0065	EPA 8260D	11-22-21	11-23-21	
Isopropylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Bromobenzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
n-Propylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
2-Chlorotoluene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
4-Chlorotoluene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
tert-Butylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
sec-Butylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
p-Isopropyltoluene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
n-Butylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0065	EPA 8260D	11-22-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Hexachlorobutadiene	ND	0.0065	EPA 8260D	11-22-21	11-23-21	
Naphthalene	ND	0.0065	EPA 8260D	11-22-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-03-21-111821					
Laboratory ID:	11-217-12					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	11-22-21	11-23-21	
Chloromethane	ND	0.0048	EPA 8260D	11-22-21	11-23-21	
Vinyl Chloride	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Bromomethane	ND	0.0037	EPA 8260D	11-22-21	11-23-21	
Chloroethane	ND	0.0037	EPA 8260D	11-22-21	11-23-21	
Trichlorofluoromethane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,1-Dichloroethene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Acetone	1.9	0.0073	EPA 8260D	11-22-21	11-23-21	E
Iodomethane	ND	0.0037	EPA 8260D	11-22-21	11-23-21	
Carbon Disulfide	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Methylene Chloride	ND	0.0037	EPA 8260D	11-22-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Methyl t-Butyl Ether	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,1-Dichloroethane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Vinyl Acetate	ND	0.0037	EPA 8260D	11-22-21	11-23-21	
2,2-Dichloropropane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
2-Butanone	0.13	0.0037	EPA 8260D	11-22-21	11-23-21	
Bromochloromethane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Chloroform	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,1,1-Trichloroethane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Carbon Tetrachloride	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,1-Dichloropropene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Benzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,2-Dichloroethane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Trichloroethene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,2-Dichloropropane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Dibromomethane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Bromodichloromethane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0037	EPA 8260D	11-22-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0037	EPA 8260D	11-22-21	11-23-21	
Toluene	ND	0.0037	EPA 8260D	11-22-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-03-21-111821					
Laboratory ID:	11-217-12					
1,1,2-Trichloroethane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Tetrachloroethene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,3-Dichloropropane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
2-Hexanone	ND	0.0037	EPA 8260D	11-22-21	11-23-21	
Dibromochloromethane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,2-Dibromoethane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Chlorobenzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Ethylbenzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
m,p-Xylene	ND	0.0015	EPA 8260D	11-22-21	11-23-21	
o-Xylene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Styrene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Bromoform	ND	0.0037	EPA 8260D	11-22-21	11-23-21	
Isopropylbenzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Bromobenzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,2,3-Trichloropropane	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
n-Propylbenzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
2-Chlorotoluene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
4-Chlorotoluene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
tert-Butylbenzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
sec-Butylbenzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,3-Dichlorobenzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
p-Isopropyltoluene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,4-Dichlorobenzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,2-Dichlorobenzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
n-Butylbenzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0037	EPA 8260D	11-22-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
Hexachlorobutadiene	ND	0.0037	EPA 8260D	11-22-21	11-23-21	
Naphthalene	ND	0.0037	EPA 8260D	11-22-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.00073	EPA 8260D	11-22-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-03-26-111821					
Laboratory ID:	11-217-13					
Dichlorodifluoromethane	ND	0.0016	EPA 8260D	11-22-21	11-23-21	
Chloromethane	ND	0.0059	EPA 8260D	11-22-21	11-23-21	
Vinyl Chloride	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Bromomethane	ND	0.0046	EPA 8260D	11-22-21	11-23-21	
Chloroethane	ND	0.0046	EPA 8260D	11-22-21	11-23-21	
Trichlorofluoromethane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,1-Dichloroethene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Acetone	1.0	0.0091	EPA 8260D	11-22-21	11-23-21	E
Iodomethane	ND	0.0046	EPA 8260D	11-22-21	11-23-21	
Carbon Disulfide	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Methylene Chloride	ND	0.0046	EPA 8260D	11-22-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Methyl t-Butyl Ether	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,1-Dichloroethane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Vinyl Acetate	ND	0.0046	EPA 8260D	11-22-21	11-23-21	
2,2-Dichloropropane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
2-Butanone	0.060	0.0046	EPA 8260D	11-22-21	11-23-21	
Bromochloromethane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Chloroform	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Carbon Tetrachloride	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,1-Dichloropropene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Benzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,2-Dichloroethane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Trichloroethene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,2-Dichloropropane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Dibromomethane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Bromodichloromethane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260D	11-22-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0046	EPA 8260D	11-22-21	11-23-21	
Toluene	ND	0.0046	EPA 8260D	11-22-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-03-26-111821					
Laboratory ID:	11-217-13					
1,1,2-Trichloroethane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Tetrachloroethene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,3-Dichloropropane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
2-Hexanone	ND	0.0046	EPA 8260D	11-22-21	11-23-21	
Dibromochloromethane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,2-Dibromoethane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Chlorobenzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Ethylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
m,p-Xylene	ND	0.0018	EPA 8260D	11-22-21	11-23-21	
o-Xylene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Styrene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Bromoform	ND	0.0046	EPA 8260D	11-22-21	11-23-21	
Isopropylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Bromobenzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,2,3-Trichloropropane	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
n-Propylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
2-Chlorotoluene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
4-Chlorotoluene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
tert-Butylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
sec-Butylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,3-Dichlorobenzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
p-Isopropyltoluene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,4-Dichlorobenzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,2-Dichlorobenzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
n-Butylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260D	11-22-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
Hexachlorobutadiene	ND	0.0046	EPA 8260D	11-22-21	11-23-21	
Naphthalene	ND	0.0046	EPA 8260D	11-22-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.00091	EPA 8260D	11-22-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-130</i>				



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 Laboratory Reference: 2111-217
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-02-8-111821					
Laboratory ID:	11-217-14					
Dichlorodifluoromethane	ND	0.0020	EPA 8260D	11-22-21	11-23-21	
Chloromethane	ND	0.0073	EPA 8260D	11-22-21	11-23-21	
Vinyl Chloride	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Bromomethane	ND	0.0056	EPA 8260D	11-22-21	11-23-21	
Chloroethane	ND	0.0056	EPA 8260D	11-22-21	11-23-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Acetone	0.24	0.011	EPA 8260D	11-22-21	11-23-21	
Iodomethane	ND	0.0056	EPA 8260D	11-22-21	11-23-21	
Carbon Disulfide	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Methylene Chloride	ND	0.0056	EPA 8260D	11-22-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Vinyl Acetate	ND	0.0056	EPA 8260D	11-22-21	11-23-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
2-Butanone	0.026	0.0056	EPA 8260D	11-22-21	11-23-21	
Bromochloromethane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Chloroform	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Benzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Trichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Dibromomethane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260D	11-22-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0056	EPA 8260D	11-22-21	11-23-21	
Toluene	ND	0.0056	EPA 8260D	11-22-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-02-8-111821					
Laboratory ID:	11-217-14					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Tetrachloroethene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
2-Hexanone	ND	0.0056	EPA 8260D	11-22-21	11-23-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Chlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Ethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
m,p-Xylene	ND	0.0022	EPA 8260D	11-22-21	11-23-21	
o-Xylene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Styrene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Bromoform	ND	0.0056	EPA 8260D	11-22-21	11-23-21	
Isopropylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Bromobenzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
n-Propylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
tert-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
sec-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
p-Isopropyltoluene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
n-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260D	11-22-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
Hexachlorobutadiene	ND	0.0056	EPA 8260D	11-22-21	11-23-21	
Naphthalene	ND	0.0056	EPA 8260D	11-22-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-02-13-111821					
Laboratory ID:	11-217-15					
Dichlorodifluoromethane	ND	0.0018	EPA 8260D	11-22-21	11-23-21	
Chloromethane	ND	0.0066	EPA 8260D	11-22-21	11-23-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Bromomethane	ND	0.0051	EPA 8260D	11-22-21	11-23-21	
Chloroethane	ND	0.0051	EPA 8260D	11-22-21	11-23-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Acetone	0.42	0.010	EPA 8260D	11-22-21	11-23-21	
Iodomethane	ND	0.0051	EPA 8260D	11-22-21	11-23-21	
Carbon Disulfide	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Methylene Chloride	ND	0.0051	EPA 8260D	11-22-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Vinyl Acetate	ND	0.0051	EPA 8260D	11-22-21	11-23-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
2-Butanone	0.048	0.0051	EPA 8260D	11-22-21	11-23-21	
Bromochloromethane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Chloroform	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Benzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Trichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Dibromomethane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260D	11-22-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0051	EPA 8260D	11-22-21	11-23-21	
Toluene	ND	0.0051	EPA 8260D	11-22-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-02-13-111821					
Laboratory ID:	11-217-15					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Tetrachloroethene	0.0070	0.0010	EPA 8260D	11-22-21	11-23-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
2-Hexanone	ND	0.0051	EPA 8260D	11-22-21	11-23-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Chlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Ethylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
m,p-Xylene	ND	0.0020	EPA 8260D	11-22-21	11-23-21	
o-Xylene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Styrene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Bromoform	ND	0.0051	EPA 8260D	11-22-21	11-23-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Bromobenzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260D	11-22-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
Hexachlorobutadiene	ND	0.0051	EPA 8260D	11-22-21	11-23-21	
Naphthalene	ND	0.0051	EPA 8260D	11-22-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-02-21-111821					
Laboratory ID:	11-217-16					
Dichlorodifluoromethane	ND	0.0016	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Acetone	0.29	0.0099	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.029	0.0050	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0073	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-02-21-111821					
Laboratory ID:	11-217-16					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	0.016	0.00099	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0020	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.00099	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.063	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.088	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.095	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	ND	0.063	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.063	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.063	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.063	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	ND	0.063	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.063	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	ND	0.063	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.063	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	ND	0.063	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.063	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	ND	0.063	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	ND	0.063	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.42	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.063	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.32	EPA 8260D	11-23-21	11-23-21	
Naphthalene	ND	0.40	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.063	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>90</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>76</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-02-22-111821					
Laboratory ID:	11-217-17					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0040	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0040	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0040	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Acetone	0.99	0.0080	EPA 8260D	11-22-21	11-22-21	E
Iodomethane	ND	0.0040	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0040	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0040	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.14	0.0040	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0040	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0040	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-02-22-111821					
Laboratory ID:	11-217-17					
1,1,2-Trichloroethane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0040	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0016	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0040	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0040	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0040	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.00080	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-01-7-111821					
Laboratory ID:	11-217-18					
Dichlorodifluoromethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0044	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0044	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0044	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Acetone	ND	0.0088	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0044	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0044	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0044	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
2-Butanone	ND	0.0044	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0044	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0044	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-01-7-111821					
Laboratory ID:	11-217-18					
1,1,2-Trichloroethane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	0.0040	0.00088	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0044	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0044	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0044	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0044	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-01-13-111821					
Laboratory ID:	11-217-19					
Dichlorodifluoromethane	ND	0.0030	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0095	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0095	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0095	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Acetone	0.82	0.019	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0095	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	0.0095	0.0019	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0095	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0095	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.13	0.0095	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	0.017	0.0019	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.014	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0095	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0095	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-01-13-111821					
Laboratory ID:	11-217-19					
1,1,2-Trichloroethane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	0.089	0.0019	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0095	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0038	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0095	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	0.0094	0.0019	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0095	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0095	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0095	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0019	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>71-130</i>				



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 Samples Submitted: November 19, 2021
 Laboratory Reference: 2111-217
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-01-19-111821					
Laboratory ID:	11-217-20					
Dichlorodifluoromethane	ND	0.0021	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0064	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0064	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0064	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Acetone	1.7	0.013	EPA 8260D	11-22-21	11-22-21	E
Iodomethane	ND	0.0064	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	0.0076	0.0013	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0064	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0064	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.20	0.0064	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	0.0049	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0095	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0064	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0064	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-01-19-111821					
Laboratory ID:	11-217-20					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	0.030	0.0013	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0064	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0026	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0064	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	0.0013	0.0013	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	0.0049	0.0013	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0064	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0064	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0064	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>85</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-01-23-111821					
Laboratory ID:	11-217-21					
Dichlorodifluoromethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0043	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0043	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0043	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Acetone	0.62	0.50	EPA 8260D	11-23-21	11-23-21	
Iodomethane	ND	0.0043	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	0.0011	0.00086	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0043	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0043	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.14	0.0043	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0043	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0043	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-01-23-111821					
Laboratory ID:	11-217-21					
1,1,2-Trichloroethane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0043	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0017	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0043	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0043	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0043	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.00086	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-13-5-111921					
Laboratory ID:	11-217-22					
Dichlorodifluoromethane	ND	0.0017	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Acetone	ND	0.011	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Butanone	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0078	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-13-5-111921					
Laboratory ID:	11-217-22					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0021	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>71-130</i>				



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 Laboratory Reference: 2111-217
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-13-8-111921					
Laboratory ID:	11-217-23					
Dichlorodifluoromethane	ND	0.0017	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Acetone	0.34	0.011	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.019	0.0053	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0078	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-13-8-111921					
Laboratory ID:	11-217-23					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0021	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0053	EPA 8260D	11-22-21	11-22-21	
Naphthalene	0.015	0.0053	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-13-16-111921					
Laboratory ID:	11-217-24					
Dichlorodifluoromethane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0056	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0056	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0056	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Acetone	0.26	0.011	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0056	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0056	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0056	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.034	0.0056	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0082	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0056	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0056	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-13-16-111921					
Laboratory ID:	11-217-24					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0056	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0022	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0056	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0056	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0056	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-13-20-111921					
Laboratory ID:	11-217-25					
Dichlorodifluoromethane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0046	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0046	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0046	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Acetone	0.22	0.0092	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0046	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	0.0020	0.00092	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0046	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0046	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.034	0.0046	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0046	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0046	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-13-20-111921					
Laboratory ID:	11-217-25					
1,1,2-Trichloroethane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	0.0013	0.00092	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0046	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0046	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	0.0019	0.00092	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0046	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0046	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.00092	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>71-130</i>				



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 Laboratory Reference: 2111-217
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-14-6-111921					
Laboratory ID:	11-217-26					
Dichlorodifluoromethane	ND	0.0020	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0062	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0062	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0062	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Acetone	ND	0.012	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0062	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0062	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0062	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
2-Butanone	ND	0.0062	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0092	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0062	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0062	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-14-6-111921					
Laboratory ID:	11-217-26					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	0.0025	0.0012	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0062	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0025	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0062	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0062	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0062	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-14-13-111921					
Laboratory ID:	11-217-27					
Dichlorodifluoromethane	ND	0.0017	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0054	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0054	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0054	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Acetone	0.73	0.011	EPA 8260D	11-22-21	11-22-21	E
Iodomethane	ND	0.0054	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0054	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0054	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.047	0.0054	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0079	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0054	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0054	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-14-13-111921					
Laboratory ID:	11-217-27					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0054	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0021	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0054	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0054	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0054	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-14-21-111921					
Laboratory ID:	11-217-28					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Chloromethane	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
Vinyl Chloride	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromomethane	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
Chloroethane	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Acetone	0.37	0.012	EPA 8260D	11-23-21	11-23-21	
Iodomethane	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
Carbon Disulfide	0.0065	0.0012	EPA 8260D	11-23-21	11-23-21	
Methylene Chloride	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Vinyl Acetate	ND	0.0075	EPA 8260D	11-23-21	11-23-21	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Butanone	0.038	0.0076	EPA 8260D	11-23-21	11-23-21	Y
Bromochloromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Chloroform	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Benzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Trichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Dibromomethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromodichloromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0088	EPA 8260D	11-23-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0078	EPA 8260D	11-23-21	11-23-21	
Toluene	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-14-21-111921					
Laboratory ID:	11-217-28					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Tetrachloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Hexanone	ND	0.0094	EPA 8260D	11-23-21	11-23-21	
Dibromochloromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Chlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Ethylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
m,p-Xylene	ND	0.0024	EPA 8260D	11-23-21	11-23-21	
o-Xylene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Styrene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromoform	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
Isopropylbenzene	0.0035	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.0017	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.0018	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	0.0086	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	0.0013	0.0012	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	0.0020	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	0.0090	0.0012	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	0.035	0.0012	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	0.0015	0.0012	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	0.0021	0.0012	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	0.018	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0078	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
Naphthalene	0.0091	0.0075	EPA 8260D	11-23-21	11-23-21	Y
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>85</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-14-22-111921					
Laboratory ID:	11-217-29					
Dichlorodifluoromethane	ND	0.0018	EPA 8260D	11-23-21	11-24-21	
Chloromethane	ND	0.0069	EPA 8260D	11-23-21	11-24-21	
Vinyl Chloride	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Bromomethane	ND	0.0069	EPA 8260D	11-23-21	11-24-21	
Chloroethane	ND	0.0069	EPA 8260D	11-23-21	11-24-21	
Trichlorofluoromethane	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
1,1-Dichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Acetone	0.29	0.021	EPA 8260D	11-23-21	11-24-21	Y
Iodomethane	ND	0.0069	EPA 8260D	11-23-21	11-24-21	
Carbon Disulfide	0.0042	0.0014	EPA 8260D	11-23-21	11-24-21	
Methylene Chloride	ND	0.0088	EPA 8260D	11-23-21	11-24-21	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Methyl t-Butyl Ether	ND	0.0018	EPA 8260D	11-23-21	11-24-21	
1,1-Dichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Vinyl Acetate	ND	0.012	EPA 8260D	11-23-21	11-24-21	
2,2-Dichloropropane	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
2-Butanone	0.035	0.013	EPA 8260D	11-23-21	11-24-21	Y
Bromochloromethane	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Chloroform	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Carbon Tetrachloride	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
1,1-Dichloropropene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Benzene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
1,2-Dichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Trichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
1,2-Dichloropropane	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Dibromomethane	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Bromodichloromethane	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
2-Chloroethyl Vinyl Ether	ND	0.016	EPA 8260D	11-23-21	11-24-21	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Methyl Isobutyl Ketone	ND	0.012	EPA 8260D	11-23-21	11-24-21	
Toluene	ND	0.0069	EPA 8260D	11-23-21	11-24-21	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-14-22-111921					
Laboratory ID:	11-217-29					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Tetrachloroethene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
1,3-Dichloropropane	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
2-Hexanone	ND	0.013	EPA 8260D	11-23-21	11-24-21	
Dibromochloromethane	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
1,2-Dibromoethane	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Chlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Ethylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
m,p-Xylene	0.0039	0.0027	EPA 8260D	11-23-21	11-24-21	
o-Xylene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Styrene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Bromoform	ND	0.0069	EPA 8260D	11-23-21	11-24-21	
Isopropylbenzene	0.0086	0.0014	EPA 8260D	11-23-21	11-24-21	
Bromobenzene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
1,2,3-Trichloropropane	ND	0.0018	EPA 8260D	11-23-21	11-24-21	
n-Propylbenzene	0.021	0.0014	EPA 8260D	11-23-21	11-24-21	
2-Chlorotoluene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
4-Chlorotoluene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
1,3,5-Trimethylbenzene	0.0024	0.0014	EPA 8260D	11-23-21	11-24-21	
tert-Butylbenzene	0.0054	0.0014	EPA 8260D	11-23-21	11-24-21	
1,2,4-Trimethylbenzene	0.019	0.0014	EPA 8260D	11-23-21	11-24-21	
sec-Butylbenzene	0.086	0.0014	EPA 8260D	11-23-21	11-24-21	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
p-Isopropyltoluene	0.0015	0.0014	EPA 8260D	11-23-21	11-24-21	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
1,2-Dichlorobenzene	0.0072	0.0014	EPA 8260D	11-23-21	11-24-21	
n-Butylbenzene	0.029	0.0014	EPA 8260D	11-23-21	11-24-21	
1,2-Dibromo-3-chloropropane	ND	0.0096	EPA 8260D	11-23-21	11-24-21	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
Hexachlorobutadiene	ND	0.0069	EPA 8260D	11-23-21	11-24-21	
Naphthalene	0.010	0.0069	EPA 8260D	11-23-21	11-24-21	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-12-5-111921					
Laboratory ID:	11-217-30					
Dichlorodifluoromethane	ND	0.0015	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0045	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0045	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0045	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Acetone	0.16	0.0091	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0045	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0045	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0045	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.010	0.0045	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0045	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0045	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-12-5-111921					
Laboratory ID:	11-217-30					
1,1,2-Trichloroethane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	0.0019	0.00091	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0045	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0045	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0045	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0045	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.00091	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-12-13-111921					
Laboratory ID:	11-217-31					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0041	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0041	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0041	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Acetone	0.16	0.0082	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0041	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0041	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0041	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.012	0.0041	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0041	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0041	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-12-13-111921					
Laboratory ID:	11-217-31					
1,1,2-Trichloroethane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0041	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0016	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0041	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0041	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0041	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0041	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.00082	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-130</i>				



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 Laboratory Reference: 2111-217
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-12-17-111921					
Laboratory ID:	11-217-32					
Dichlorodifluoromethane	ND	0.0022	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0069	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0069	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0069	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Acetone	0.73	0.014	EPA 8260D	11-22-21	11-22-21	E
Iodomethane	ND	0.0069	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	0.0018	0.0014	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0069	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0069	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.095	0.0069	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.010	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0069	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0069	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-12-17-111921					
Laboratory ID:	11-217-32					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	0.0018	0.0014	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0069	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0028	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0069	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0069	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0069	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0069	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-12-22-111921					
Laboratory ID:	11-217-33					
Dichlorodifluoromethane	ND	0.0018	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0055	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0055	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0055	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Acetone	0.12	0.011	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0055	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0055	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0055	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Butanone	0.019	0.0055	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0081	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0055	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0055	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-12-22-111921					
Laboratory ID:	11-217-33					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0055	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0022	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0055	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0055	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0055	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1122S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Acetone	ND	0.010	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0068	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
2-Butanone	ND	0.0069	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0079	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0066	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1122S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0080	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0020	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>71-130</i>				



Date of Report: November 24, 2021
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 Laboratory Reference: 2111-217
 Project: 060172

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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:	MB1122S2					
Dichlorodifluoromethane	ND	0.0016	EPA 8260D	11-22-21	11-22-21	
Chloromethane	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Bromomethane	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Chloroethane	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Acetone	ND	0.010	EPA 8260D	11-22-21	11-22-21	
Iodomethane	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Carbon Disulfide	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Methylene Chloride	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Vinyl Acetate	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
2-Butanone	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Bromochloromethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Chloroform	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Benzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Trichloroethene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Dibromomethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
2-Chloroethyl Vinyl Ether	ND	0.0074	EPA 8260D	11-22-21	11-22-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Toluene	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1122S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
2-Hexanone	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Chlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Ethylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
m,p-Xylene	ND	0.0020	EPA 8260D	11-22-21	11-22-21	
o-Xylene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Styrene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Bromoform	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Bromobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
Naphthalene	ND	0.0050	EPA 8260D	11-22-21	11-22-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	11-22-21	11-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-130</i>				



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 Project: 060172

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:	MB1123S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Chloromethane	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Bromomethane	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
Chloroethane	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Acetone	ND	0.010	EPA 8260D	11-23-21	11-23-21	
Iodomethane	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
Carbon Disulfide	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Methylene Chloride	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Vinyl Acetate	ND	0.0063	EPA 8260D	11-23-21	11-23-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
2-Butanone	ND	0.0064	EPA 8260D	11-23-21	11-23-21	
Bromochloromethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Chloroform	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Benzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Trichloroethene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Dibromomethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0074	EPA 8260D	11-23-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0066	EPA 8260D	11-23-21	11-23-21	
Toluene	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1123S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
2-Hexanone	ND	0.0079	EPA 8260D	11-23-21	11-23-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Chlorobenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Ethylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
m,p-Xylene	ND	0.0020	EPA 8260D	11-23-21	11-23-21	
o-Xylene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Styrene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Bromoform	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Bromobenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0066	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
Naphthalene	ND	0.0063	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-130</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID: SB1122S1										
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0508	0.0519	0.0500	0.0500	102	104	71-131	2	19	
Benzene	0.0514	0.0522	0.0500	0.0500	103	104	73-124	2	18	
Trichloroethene	0.0574	0.0602	0.0500	0.0500	115	120	79-130	5	18	
Toluene	0.0533	0.0535	0.0500	0.0500	107	107	76-123	0	18	
Chlorobenzene	0.0507	0.0512	0.0500	0.0500	101	102	78-122	1	18	
<i>Surrogate:</i>										
					96	97	74-131			
					102	102	78-128			
					104	103	71-130			
Laboratory ID: SB1122S2										
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0559	0.0578	0.0500	0.0500	112	116	71-131	3	19	
Benzene	0.0577	0.0594	0.0500	0.0500	115	119	73-124	3	18	
Trichloroethene	0.0588	0.0612	0.0500	0.0500	118	122	79-130	4	18	
Toluene	0.0545	0.0557	0.0500	0.0500	109	111	76-123	2	18	
Chlorobenzene	0.0522	0.0526	0.0500	0.0500	104	105	78-122	1	18	
<i>Surrogate:</i>										
					100	101	74-131			
					98	99	78-128			
					100	102	71-130			
Laboratory ID: SB1123S2										
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0486	0.0501	0.0500	0.0500	97	100	71-131	3	19	
Benzene	0.0510	0.0530	0.0500	0.0500	102	106	73-124	4	18	
Trichloroethene	0.0584	0.0608	0.0500	0.0500	117	122	79-130	4	18	
Toluene	0.0521	0.0538	0.0500	0.0500	104	108	76-123	3	18	
Chlorobenzene	0.0504	0.0521	0.0500	0.0500	101	104	78-122	3	18	
<i>Surrogate:</i>										
					95	95	74-131			
					101	101	78-128			
					103	104	71-130			



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% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
CB-04-8.5-111821	11-217-01	19	11-22-21
CB-04-13-111821	11-217-02	15	11-22-21
CB-04-15-111821	11-217-03	28	11-22-21
CB-04-23.5-111821	11-217-04	29	11-22-21
CB-04-26.5-111821	11-217-05	29	11-22-21
CB-05-7-111821	11-217-06	24	11-22-21
CB-05-12-111821	11-217-07	26	11-22-21
CB-05-18-111821	11-217-08	15	11-22-21
CB-05-27.5-111821	11-217-09	15	11-22-21
CB-03-7-111821	11-217-10	31	11-22-21
CB-03-8-111821	11-217-11	15	11-22-21
CB-03-21-111821	11-217-12	17	11-22-21
CB-03-26-111821	11-217-13	14	11-22-21
CB-02-8-111821	11-217-14	14	11-22-21
CB-02-13-111821	11-217-15	28	11-22-21
CB-02-21-111821	11-217-16	21	11-22-21
CB-02-22-111821	11-217-17	14	11-22-21
CB-01-7-111821	11-217-18	15	11-22-21
CB-01-13-111821	11-217-19	30	11-22-21
CB-01-19-111821	11-217-20	35	11-22-21
CB-01-23-111821	11-217-21	12	11-22-21
CB-13-5-111921	11-217-22	15	11-22-21
CB-13-8-111921	11-217-23	13	11-22-21
CB-13-16-111921	11-217-24	25	11-22-21
CB-13-20-111921	11-217-25	21	11-22-21
CB-14-6-111921	11-217-26	25	11-22-21
CB-14-13-111921	11-217-27	13	11-22-21



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Samples Submitted: November 19, 2021
Laboratory Reference: 2111-217
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
CB-14-21-111921	11-217-28	24	11-22-21
CB-14-22-111921	11-217-29	26	11-22-21
CB-12-5-111921	11-217-30	14	11-22-21
CB-12-13-111921	11-217-31	14	11-22-21
CB-12-17-111921	11-217-32	28	11-22-21
CB-12-22-111921	11-217-33	17	11-22-21





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z - The sample chromatogram is similar to mineral spirits.
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





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

November 24, 2021

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2111-226

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on November 23, 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,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 24, 2021
Samples Submitted: November 23, 2021
Laboratory Reference: 2111-226
Project: 060172

Case Narrative

Samples were collected on November 22, 2021 and received by the laboratory on November 23, 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-Gx Analysis

The chromatogram for sample CB-8-3-112221 is similar to mineral spirits.

Volatiles EPA 8260D Analysis

The value reported for Acetone in samples CB-10-13-112221 and CB-6-15-112221 exceeds the calibration range and is therefore an estimate. The samples were re-analyzed at the lowest possible dilution allowed by Method 5035A with non-detect results for Acetone.

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: November 24, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-226
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-10-6-112221					
Laboratory ID:	11-226-01					
Gasoline	ND	6.0	NWTPH-Gx	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	115	66-129				
Client ID:	CB-10-13-112221					
Laboratory ID:	11-226-02					
Gasoline	ND	8.1	NWTPH-Gx	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	122	66-129				
Client ID:	CB-10-16-112221					
Laboratory ID:	11-226-03					
Gasoline	ND	8.4	NWTPH-Gx	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	104	66-129				
Client ID:	CB-10-23.5-112221					
Laboratory ID:	11-226-04					
Gasoline	ND	6.9	NWTPH-Gx	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	113	66-129				
Client ID:	CB-8-3-112221					
Laboratory ID:	11-226-05					
Gasoline	8.6	5.4	NWTPH-Gx	11-23-21	11-23-21	Z
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	112	66-129				
Client ID:	CB-8-10-112221					
Laboratory ID:	11-226-06					
Gasoline	ND	7.1	NWTPH-Gx	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	121	66-129				
Client ID:	CB-7-5-112221					
Laboratory ID:	11-226-07					
Gasoline	ND	5.6	NWTPH-Gx	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	114	66-129				



Date of Report: November 24, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-226
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-7-10.5-112221					
Laboratory ID:	11-226-08					
Gasoline	ND	7.4	NWTPH-Gx	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	129	66-129				
Client ID:	CB-6-5.0-112221					
Laboratory ID:	11-226-09					
Gasoline	ND	6.6	NWTPH-Gx	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	116	66-129				
Client ID:	CB-6-8.0-112221					
Laboratory ID:	11-226-10					
Gasoline	ND	6.8	NWTPH-Gx	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	113	66-129				
Client ID:	CB-6-15-112221					
Laboratory ID:	11-226-11					
Gasoline	ND	6.8	NWTPH-Gx	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	115	66-129				
Client ID:	CB-6-21-112221					
Laboratory ID:	11-226-12					
Gasoline	ND	8.3	NWTPH-Gx	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	124	66-129				



Date of Report: November 24, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-226
 Project: 060172

**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:	MB1123S1					
Gasoline	ND	5.0	NWTPH-Gx	11-23-21	11-23-21	
Surrogate:	<i>Percent Recovery</i>		<i>Control Limits</i>			
Fluorobenzene	108	66-129				
Laboratory ID:	MB1123S2					
Gasoline	ND	5.0	NWTPH-Gx	11-23-21	11-23-21	
Surrogate:	<i>Percent Recovery</i>		<i>Control Limits</i>			
Fluorobenzene	106	66-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-226-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				115	120	66-129		
Laboratory ID:	11-226-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				122	122	66-129		



Date of Report: November 24, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-226
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-10-6-112221					
Laboratory ID:	11-226-01					
Dichlorodifluoromethane	ND	0.0017	EPA 8260D	11-23-21	11-23-21	
Chloromethane	ND	0.0061	EPA 8260D	11-23-21	11-23-21	
Vinyl Chloride	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Bromomethane	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
Chloroethane	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
Trichlorofluoromethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Acetone	0.021	0.0095	EPA 8260D	11-23-21	11-23-21	
Iodomethane	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
Carbon Disulfide	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Methylene Chloride	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Methyl t-Butyl Ether	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Vinyl Acetate	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
2,2-Dichloropropane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
(cis) 1,2-Dichloroethene	0.0013	0.00095	EPA 8260D	11-23-21	11-23-21	
2-Butanone	0.0049	0.0047	EPA 8260D	11-23-21	11-23-21	
Bromochloromethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Chloroform	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Carbon Tetrachloride	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloropropene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Benzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloroethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Trichloroethene	0.0079	0.00095	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloropropane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Dibromomethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Bromodichloromethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
Toluene	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	



Date of Report: November 24, 2021
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VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-10-6-112221					
Laboratory ID:	11-226-01					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Tetrachloroethene	0.14	0.00095	EPA 8260D	11-23-21	11-23-21	
1,3-Dichloropropane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
2-Hexanone	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
Dibromochloromethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromoethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Chlorobenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Ethylbenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
m,p-Xylene	ND	0.0019	EPA 8260D	11-23-21	11-23-21	
o-Xylene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Styrene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Bromoform	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
Isopropylbenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Bromobenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	0.0014	0.00095	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	0.0020	0.00095	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
Naphthalene	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-130</i>				



Date of Report: November 24, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-226
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-10-13-112221					
Laboratory ID:	11-226-02					
Dichlorodifluoromethane	ND	0.0025	EPA 8260D	11-23-21	11-23-21	
Chloromethane	ND	0.0090	EPA 8260D	11-23-21	11-23-21	
Vinyl Chloride	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Bromomethane	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
Chloroethane	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
Trichlorofluoromethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Acetone	1.0	0.014	EPA 8260D	11-23-21	11-23-21	E
Iodomethane	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
Carbon Disulfide	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Methylene Chloride	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Vinyl Acetate	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
2,2-Dichloropropane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
2-Butanone	0.077	0.0069	EPA 8260D	11-23-21	11-23-21	
Bromochloromethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Chloroform	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Carbon Tetrachloride	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloropropene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Benzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Trichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloropropane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Dibromomethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Bromodichloromethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
Toluene	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	



Date of Report: November 24, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-226
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-10-13-112221					
Laboratory ID:	11-226-02					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Tetrachloroethene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,3-Dichloropropane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
2-Hexanone	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
Dibromochloromethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromoethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Chlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Ethylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
m,p-Xylene	ND	0.0028	EPA 8260D	11-23-21	11-23-21	
o-Xylene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Styrene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Bromoform	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
Isopropylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Bromobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
Naphthalene	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-130</i>				



Date of Report: November 24, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-226
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-10-16-112221					
Laboratory ID:	11-226-03					
Dichlorodifluoromethane	ND	0.0027	EPA 8260D	11-23-21	11-23-21	
Chloromethane	ND	0.0098	EPA 8260D	11-23-21	11-23-21	
Vinyl Chloride	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Bromomethane	ND	0.0075	EPA 8260D	11-23-21	11-23-21	
Chloroethane	ND	0.0075	EPA 8260D	11-23-21	11-23-21	
Trichlorofluoromethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Acetone	0.27	0.015	EPA 8260D	11-23-21	11-23-21	
Iodomethane	ND	0.0075	EPA 8260D	11-23-21	11-23-21	
Carbon Disulfide	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Methylene Chloride	ND	0.0075	EPA 8260D	11-23-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Vinyl Acetate	ND	0.0075	EPA 8260D	11-23-21	11-23-21	
2,2-Dichloropropane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
2-Butanone	0.023	0.0075	EPA 8260D	11-23-21	11-23-21	
Bromochloromethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Chloroform	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Carbon Tetrachloride	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloropropene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Benzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloroethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Trichloroethene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloropropane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Dibromomethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Bromodichloromethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0075	EPA 8260D	11-23-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0075	EPA 8260D	11-23-21	11-23-21	
Toluene	ND	0.0075	EPA 8260D	11-23-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-10-16-112221					
Laboratory ID:	11-226-03					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Tetrachloroethene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,3-Dichloropropane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
2-Hexanone	ND	0.0075	EPA 8260D	11-23-21	11-23-21	
Dibromochloromethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromoethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Chlorobenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Ethylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
m,p-Xylene	ND	0.0030	EPA 8260D	11-23-21	11-23-21	
o-Xylene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Styrene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Bromoform	ND	0.0075	EPA 8260D	11-23-21	11-23-21	
Isopropylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Bromobenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0075	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.0075	EPA 8260D	11-23-21	11-23-21	
Naphthalene	ND	0.0075	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-10-23.5-112221					
Laboratory ID:	11-226-04					
Dichlorodifluoromethane	ND	0.0026	EPA 8260D	11-23-21	11-23-21	
Chloromethane	ND	0.0094	EPA 8260D	11-23-21	11-23-21	
Vinyl Chloride	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Bromomethane	ND	0.0073	EPA 8260D	11-23-21	11-23-21	
Chloroethane	ND	0.0073	EPA 8260D	11-23-21	11-23-21	
Trichlorofluoromethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Acetone	0.18	0.015	EPA 8260D	11-23-21	11-23-21	
Iodomethane	ND	0.0073	EPA 8260D	11-23-21	11-23-21	
Carbon Disulfide	0.0026	0.0015	EPA 8260D	11-23-21	11-23-21	
Methylene Chloride	ND	0.0073	EPA 8260D	11-23-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Vinyl Acetate	ND	0.0073	EPA 8260D	11-23-21	11-23-21	
2,2-Dichloropropane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
2-Butanone	0.022	0.0073	EPA 8260D	11-23-21	11-23-21	
Bromochloromethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Chloroform	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Carbon Tetrachloride	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloropropene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Benzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloroethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Trichloroethene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloropropane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Dibromomethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Bromodichloromethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0073	EPA 8260D	11-23-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0073	EPA 8260D	11-23-21	11-23-21	
Toluene	ND	0.0073	EPA 8260D	11-23-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-10-23.5-112221					
Laboratory ID:	11-226-04					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Tetrachloroethene	0.0019	0.0015	EPA 8260D	11-23-21	11-23-21	
1,3-Dichloropropane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
2-Hexanone	ND	0.0073	EPA 8260D	11-23-21	11-23-21	
Dibromochloromethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromoethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Chlorobenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Ethylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
m,p-Xylene	ND	0.0029	EPA 8260D	11-23-21	11-23-21	
o-Xylene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Styrene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Bromoform	ND	0.0073	EPA 8260D	11-23-21	11-23-21	
Isopropylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Bromobenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0073	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.0073	EPA 8260D	11-23-21	11-23-21	
Naphthalene	ND	0.0073	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-8-3-112221					
Laboratory ID:	11-226-05					
Dichlorodifluoromethane	ND	0.0019	EPA 8260D	11-23-21	11-23-21	
Chloromethane	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
Vinyl Chloride	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Bromomethane	ND	0.0053	EPA 8260D	11-23-21	11-23-21	
Chloroethane	ND	0.0053	EPA 8260D	11-23-21	11-23-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Acetone	0.026	0.011	EPA 8260D	11-23-21	11-23-21	
Iodomethane	ND	0.0053	EPA 8260D	11-23-21	11-23-21	
Carbon Disulfide	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Methylene Chloride	ND	0.0053	EPA 8260D	11-23-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Vinyl Acetate	ND	0.0053	EPA 8260D	11-23-21	11-23-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
2-Butanone	ND	0.0053	EPA 8260D	11-23-21	11-23-21	
Bromochloromethane	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Chloroform	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Benzene	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Trichloroethene	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Dibromomethane	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260D	11-23-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0053	EPA 8260D	11-23-21	11-23-21	
Toluene	ND	0.0053	EPA 8260D	11-23-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-23-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-8-3-112221					
Laboratory ID:	11-226-05					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Tetrachloroethene	0.0016	0.0011	EPA 8260D	11-23-21	11-23-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
2-Hexanone	ND	0.0053	EPA 8260D	11-23-21	11-23-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Chlorobenzene	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Ethylbenzene	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
m,p-Xylene	ND	0.0021	EPA 8260D	11-23-21	11-23-21	
o-Xylene	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Styrene	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Bromoform	ND	0.0053	EPA 8260D	11-23-21	11-23-21	
Isopropylbenzene	ND	0.0011	EPA 8260D	11-23-21	11-23-21	
Bromobenzene	ND	0.060	EPA 8260D	11-24-21	11-24-21	
1,1,2,2-Tetrachloroethane	ND	0.060	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichloropropane	ND	0.060	EPA 8260D	11-24-21	11-24-21	
n-Propylbenzene	ND	0.060	EPA 8260D	11-24-21	11-24-21	
2-Chlorotoluene	ND	0.060	EPA 8260D	11-24-21	11-24-21	
4-Chlorotoluene	ND	0.060	EPA 8260D	11-24-21	11-24-21	
1,3,5-Trimethylbenzene	ND	0.060	EPA 8260D	11-24-21	11-24-21	
tert-Butylbenzene	ND	0.060	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trimethylbenzene	ND	0.060	EPA 8260D	11-24-21	11-24-21	
sec-Butylbenzene	ND	0.060	EPA 8260D	11-24-21	11-24-21	
1,3-Dichlorobenzene	ND	0.060	EPA 8260D	11-24-21	11-24-21	
p-Isopropyltoluene	ND	0.060	EPA 8260D	11-24-21	11-24-21	
1,4-Dichlorobenzene	ND	0.060	EPA 8260D	11-24-21	11-24-21	
1,2-Dichlorobenzene	ND	0.060	EPA 8260D	11-24-21	11-24-21	
n-Butylbenzene	ND	0.060	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromo-3-chloropropane	ND	0.30	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trichlorobenzene	ND	0.060	EPA 8260D	11-24-21	11-24-21	
Hexachlorobutadiene	ND	0.30	EPA 8260D	11-24-21	11-24-21	
Naphthalene	ND	0.30	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichlorobenzene	ND	0.060	EPA 8260D	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>71-130</i>				



Date of Report: November 24, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-226
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-8-10-112221					
Laboratory ID:	11-226-06					
Dichlorodifluoromethane	ND	0.0025	EPA 8260D	11-23-21	11-23-21	
Chloromethane	ND	0.0090	EPA 8260D	11-23-21	11-23-21	
Vinyl Chloride	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Bromomethane	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
Chloroethane	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
Trichlorofluoromethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Acetone	0.36	0.014	EPA 8260D	11-23-21	11-23-21	
Iodomethane	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
Carbon Disulfide	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Methylene Chloride	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Vinyl Acetate	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
2,2-Dichloropropane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
2-Butanone	0.022	0.0069	EPA 8260D	11-23-21	11-23-21	
Bromochloromethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Chloroform	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Carbon Tetrachloride	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloropropene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Benzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Trichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloropropane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Dibromomethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Bromodichloromethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
Toluene	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-8-10-112221					
Laboratory ID:	11-226-06					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Tetrachloroethene	0.0033	0.0014	EPA 8260D	11-23-21	11-23-21	
1,3-Dichloropropane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
2-Hexanone	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
Dibromochloromethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromoethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Chlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Ethylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
m,p-Xylene	ND	0.0028	EPA 8260D	11-23-21	11-23-21	
o-Xylene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Styrene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Bromoform	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
Isopropylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Bromobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
Naphthalene	ND	0.0069	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-7-5-112221					
Laboratory ID:	11-226-07					
Dichlorodifluoromethane	ND	0.0022	EPA 8260D	11-23-21	11-23-21	
Chloromethane	ND	0.0080	EPA 8260D	11-23-21	11-23-21	
Vinyl Chloride	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromomethane	ND	0.0061	EPA 8260D	11-23-21	11-23-21	
Chloroethane	ND	0.0061	EPA 8260D	11-23-21	11-23-21	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Acetone	ND	0.012	EPA 8260D	11-23-21	11-23-21	
Iodomethane	ND	0.0061	EPA 8260D	11-23-21	11-23-21	
Carbon Disulfide	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Methylene Chloride	ND	0.0061	EPA 8260D	11-23-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Vinyl Acetate	ND	0.0061	EPA 8260D	11-23-21	11-23-21	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Butanone	ND	0.0061	EPA 8260D	11-23-21	11-23-21	
Bromochloromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Chloroform	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Benzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Trichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Dibromomethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromodichloromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260D	11-23-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0061	EPA 8260D	11-23-21	11-23-21	
Toluene	ND	0.0061	EPA 8260D	11-23-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-7-5-112221					
Laboratory ID:	11-226-07					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Tetrachloroethene	0.0019	0.0012	EPA 8260D	11-23-21	11-23-21	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Hexanone	ND	0.0061	EPA 8260D	11-23-21	11-23-21	
Dibromochloromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Chlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Ethylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
m,p-Xylene	ND	0.0024	EPA 8260D	11-23-21	11-23-21	
o-Xylene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Styrene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromoform	ND	0.0061	EPA 8260D	11-23-21	11-23-21	
Isopropylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.0061	EPA 8260D	11-23-21	11-23-21	
Naphthalene	ND	0.0061	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-7-10.5-112221					
Laboratory ID:	11-226-08					
Dichlorodifluoromethane	ND	0.0025	EPA 8260D	11-23-21	11-23-21	
Chloromethane	ND	0.0091	EPA 8260D	11-23-21	11-23-21	
Vinyl Chloride	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Bromomethane	ND	0.0070	EPA 8260D	11-23-21	11-23-21	
Chloroethane	ND	0.0070	EPA 8260D	11-23-21	11-23-21	
Trichlorofluoromethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Acetone	1.1	0.80	EPA 8260D	11-24-21	11-24-21	Y
Iodomethane	ND	0.0070	EPA 8260D	11-23-21	11-23-21	
Carbon Disulfide	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Methylene Chloride	ND	0.0070	EPA 8260D	11-23-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Vinyl Acetate	ND	0.0070	EPA 8260D	11-23-21	11-23-21	
2,2-Dichloropropane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
2-Butanone	0.084	0.0070	EPA 8260D	11-23-21	11-23-21	
Bromochloromethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Chloroform	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Carbon Tetrachloride	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloropropene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Benzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Trichloroethene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloropropane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Dibromomethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Bromodichloromethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0070	EPA 8260D	11-23-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0070	EPA 8260D	11-23-21	11-23-21	
Toluene	ND	0.0070	EPA 8260D	11-23-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-7-10.5-112221					
Laboratory ID:	11-226-08					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Tetrachloroethene	0.0029	0.0014	EPA 8260D	11-23-21	11-23-21	
1,3-Dichloropropane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
2-Hexanone	ND	0.0070	EPA 8260D	11-23-21	11-23-21	
Dibromochloromethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromoethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Chlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Ethylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
m,p-Xylene	ND	0.0028	EPA 8260D	11-23-21	11-23-21	
o-Xylene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Styrene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Bromoform	ND	0.0070	EPA 8260D	11-23-21	11-23-21	
Isopropylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Bromobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0070	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.0070	EPA 8260D	11-23-21	11-23-21	
Naphthalene	0.012	0.0070	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-130</i>				



Date of Report: November 24, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-226
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-6-5.0-112221					
Laboratory ID:	11-226-09					
Dichlorodifluoromethane	ND	0.0023	EPA 8260D	11-23-21	11-23-21	
Chloromethane	ND	0.0085	EPA 8260D	11-23-21	11-23-21	
Vinyl Chloride	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Bromomethane	ND	0.0065	EPA 8260D	11-23-21	11-23-21	
Chloroethane	ND	0.0065	EPA 8260D	11-23-21	11-23-21	
Trichlorofluoromethane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Acetone	0.021	0.013	EPA 8260D	11-23-21	11-23-21	
Iodomethane	ND	0.0065	EPA 8260D	11-23-21	11-23-21	
Carbon Disulfide	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Methylene Chloride	ND	0.0065	EPA 8260D	11-23-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Vinyl Acetate	ND	0.0065	EPA 8260D	11-23-21	11-23-21	
2,2-Dichloropropane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
2-Butanone	ND	0.0065	EPA 8260D	11-23-21	11-23-21	
Bromochloromethane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Chloroform	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloropropene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Benzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloroethane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Trichloroethene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloropropane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Dibromomethane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Bromodichloromethane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260D	11-23-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0065	EPA 8260D	11-23-21	11-23-21	
Toluene	ND	0.0065	EPA 8260D	11-23-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-6-5.0-112221					
Laboratory ID:	11-226-09					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Tetrachloroethene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,3-Dichloropropane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
2-Hexanone	ND	0.0065	EPA 8260D	11-23-21	11-23-21	
Dibromochloromethane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromoethane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Chlorobenzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Ethylbenzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
m,p-Xylene	ND	0.0026	EPA 8260D	11-23-21	11-23-21	
o-Xylene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Styrene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Bromoform	ND	0.0065	EPA 8260D	11-23-21	11-23-21	
Isopropylbenzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Bromobenzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0065	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.0065	EPA 8260D	11-23-21	11-23-21	
Naphthalene	ND	0.0065	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-6-8.0-112221					
Laboratory ID:	11-226-10					
Dichlorodifluoromethane	ND	0.0022	EPA 8260D	11-23-21	11-23-21	
Chloromethane	ND	0.0081	EPA 8260D	11-23-21	11-23-21	
Vinyl Chloride	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromomethane	ND	0.0062	EPA 8260D	11-23-21	11-23-21	
Chloroethane	ND	0.0062	EPA 8260D	11-23-21	11-23-21	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Acetone	0.045	0.012	EPA 8260D	11-23-21	11-23-21	
Iodomethane	ND	0.0062	EPA 8260D	11-23-21	11-23-21	
Carbon Disulfide	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Methylene Chloride	ND	0.0062	EPA 8260D	11-23-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Vinyl Acetate	ND	0.0062	EPA 8260D	11-23-21	11-23-21	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Butanone	ND	0.0062	EPA 8260D	11-23-21	11-23-21	
Bromochloromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Chloroform	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Benzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Trichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Dibromomethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromodichloromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260D	11-23-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0062	EPA 8260D	11-23-21	11-23-21	
Toluene	ND	0.0062	EPA 8260D	11-23-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-6-8.0-112221					
Laboratory ID:	11-226-10					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Tetrachloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Hexanone	ND	0.0062	EPA 8260D	11-23-21	11-23-21	
Dibromochloromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Chlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Ethylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
m,p-Xylene	ND	0.0025	EPA 8260D	11-23-21	11-23-21	
o-Xylene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Styrene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromoform	ND	0.0062	EPA 8260D	11-23-21	11-23-21	
Isopropylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.0062	EPA 8260D	11-23-21	11-23-21	
Naphthalene	ND	0.0062	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-6-15-112221					
Laboratory ID:	11-226-11					
Dichlorodifluoromethane	ND	0.0017	EPA 8260D	11-23-21	11-23-21	
Chloromethane	ND	0.0062	EPA 8260D	11-23-21	11-23-21	
Vinyl Chloride	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Bromomethane	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
Chloroethane	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
Trichlorofluoromethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Acetone	0.75	0.0095	EPA 8260D	11-23-21	11-23-21	E
Iodomethane	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
Carbon Disulfide	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Methylene Chloride	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Methyl t-Butyl Ether	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Vinyl Acetate	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
2,2-Dichloropropane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
2-Butanone	0.074	0.0047	EPA 8260D	11-23-21	11-23-21	
Bromochloromethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Chloroform	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Carbon Tetrachloride	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloropropene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Benzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloroethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Trichloroethene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloropropane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Dibromomethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Bromodichloromethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
Toluene	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-6-15-112221					
Laboratory ID:	11-226-11					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Tetrachloroethene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,3-Dichloropropane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
2-Hexanone	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
Dibromochloromethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromoethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Chlorobenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Ethylbenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
m,p-Xylene	ND	0.0019	EPA 8260D	11-23-21	11-23-21	
o-Xylene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Styrene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Bromoform	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
Isopropylbenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Bromobenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.0047	EPA 8260D	11-23-21	11-23-21	
Naphthalene	0.0069	0.0047	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-130</i>				



Date of Report: November 24, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-226
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-6-21-112221					
Laboratory ID:	11-226-12					
Dichlorodifluoromethane	ND	0.0021	EPA 8260D	11-23-21	11-23-21	
Chloromethane	ND	0.0077	EPA 8260D	11-23-21	11-23-21	
Vinyl Chloride	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromomethane	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
Chloroethane	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Acetone	0.28	0.012	EPA 8260D	11-23-21	11-23-21	
Iodomethane	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
Carbon Disulfide	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Methylene Chloride	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Vinyl Acetate	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Butanone	0.045	0.0059	EPA 8260D	11-23-21	11-23-21	
Bromochloromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Chloroform	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Benzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Trichloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Dibromomethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromodichloromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
Toluene	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-6-21-112221					
Laboratory ID:	11-226-12					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Tetrachloroethene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Hexanone	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
Dibromochloromethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Chlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Ethylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
m,p-Xylene	ND	0.0024	EPA 8260D	11-23-21	11-23-21	
o-Xylene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Styrene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromoform	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
Isopropylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Bromobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.0059	EPA 8260D	11-23-21	11-23-21	
Naphthalene	0.023	0.0059	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1123S1					
Dichlorodifluoromethane	ND	0.0018	EPA 8260D	11-23-21	11-23-21	
Chloromethane	ND	0.0065	EPA 8260D	11-23-21	11-23-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Bromomethane	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
Chloroethane	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Acetone	ND	0.010	EPA 8260D	11-23-21	11-23-21	
Iodomethane	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
Carbon Disulfide	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Methylene Chloride	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Vinyl Acetate	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
2-Butanone	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
Bromochloromethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Chloroform	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Benzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Trichloroethene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Dibromomethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
Toluene	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1123S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
2-Hexanone	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Chlorobenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Ethylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
m,p-Xylene	ND	0.0020	EPA 8260D	11-23-21	11-23-21	
o-Xylene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Styrene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Bromoform	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Bromobenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
Naphthalene	ND	0.0050	EPA 8260D	11-23-21	11-23-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	11-23-21	11-23-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1124S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Chloromethane	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Bromomethane	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Chloroethane	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Acetone	ND	0.010	EPA 8260D	11-24-21	11-24-21	
Iodomethane	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Carbon Disulfide	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Methylene Chloride	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Vinyl Acetate	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
2-Butanone	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Bromochloromethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Chloroform	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Benzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Trichloroethene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Dibromomethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Toluene	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1124S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
2-Hexanone	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Chlorobenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Ethylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
m,p-Xylene	ND	0.0020	EPA 8260D	11-24-21	11-24-21	
o-Xylene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Styrene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Bromoform	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Bromobenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Naphthalene	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-130</i>				



Date of Report: November 24, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-226
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1123S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0495	0.0513	0.0500	0.0500	99	103	71-131	4	19	
Benzene	0.0518	0.0544	0.0500	0.0500	104	109	73-124	5	18	
Trichloroethene	0.0528	0.0552	0.0500	0.0500	106	110	79-130	4	18	
Toluene	0.0493	0.0509	0.0500	0.0500	99	102	76-123	3	18	
Chlorobenzene	0.0461	0.0486	0.0500	0.0500	92	97	78-122	5	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					104	105	74-131			
<i>Toluene-d8</i>					105	105	78-128			
<i>4-Bromofluorobenzene</i>					106	107	71-130			
Laboratory ID:	SB1124S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0507	0.0578	0.0500	0.0500	101	116	71-131	13	19	
Benzene	0.0515	0.0569	0.0500	0.0500	103	114	73-124	10	18	
Trichloroethene	0.0533	0.0606	0.0500	0.0500	107	121	79-130	13	18	
Toluene	0.0495	0.0554	0.0500	0.0500	99	111	76-123	11	18	
Chlorobenzene	0.0453	0.0502	0.0500	0.0500	91	100	78-122	10	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	98	74-131			
<i>Toluene-d8</i>					104	104	78-128			
<i>4-Bromofluorobenzene</i>					106	106	71-130			



Date of Report: November 24, 2021
Samples Submitted: November 23, 2021
Laboratory Reference: 2111-226
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
CB-10-6-112221	11-226-01	16	11-23-21
CB-10-13-112221	11-226-02	24	11-23-21
CB-10-16-112221	11-226-03	27	11-23-21
CB-10-23.5-112221	11-226-04	26	11-23-21
CB-8-3-112221	11-226-05	7	11-23-21
CB-8-10-112221	11-226-06	19	11-23-21
CB-7-5-112221	11-226-07	10	11-23-21
CB-7-10.5-112221	11-226-08	25	11-23-21
CB-6-5.0-112221	11-226-09	13	11-23-21
CB-6-8.0-112221	11-226-10	12	11-23-21
CB-6-15-112221	11-226-11	14	11-23-21
CB-6-21-112221	11-226-12	26	11-23-21





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z - The sample chromatogram is similar to mineral spirits.
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MVA 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

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number: **11-226**

Company: Aspect Consulting

Project Number: D60172

Project Name: SIC N's Spn

Project Manager: Jeremy Porter

Sampled by: Zamel Babcock

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	CB-10-6-112221	11/22/21	1020	Soil	5
2	CB-10-13-112221		1025		
3	CB-10-16-112221		1030		
4	CB-10-23-112221		1040		
5	CB-8-3-112221		1150		
6	CB-8-10-112221		1200		
7	CB-7-5-112221		1440		
8	CB-7-10-5-112221		1445		
9	CB-6-5-10-112221		1550		
10	CB-6-8-10-112221		1555		

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> 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
5			X		X													

Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	Aspect	11/23/21	1025	
<u>[Signature]</u>	SPDg	11/23/21	1025	
<u>[Signature]</u>	SPDg	11/23/21	1055	
<u>[Signature]</u>	ORTE	11/23/21	1055	

Received/Date: _____

Received/Date: _____

Received/Date: _____

Received/Date: _____

Reviewed/Date: _____

Reviewed/Date: _____

Chromatograms with final report Electronic Data Deliverables (EDDs)



Onsite Environmental Inc.

Analytical Laboratory Testing Services
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 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (In working days)
 (Check One)

- Same Day
- 1 Day
- 2 Days
- 3 Days
- Standard (7 Days)
 (TPH analysis 5 Days)
- _____ (other)

Laboratory Number: **11-226**

Company: Aspect Consulting
 Project Number: 060172
 Project Name: Spic N Spun
 Project Manager: Jeremy R. H. D.
 Sampled by: Dale Schrock

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
11	CB-6-15-112221	11/22/21	1600	Soil
12	CB-6-21-112221	↓	1605	↓

Number of Containers		Date		Time	Comments/Special Instructions
5	↓	11/23/21	1025		
		11/23/21	1025		
		11/23/21	1055		
		11/23/21	1055		

Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	<u>Aspect</u>	<u>11/23/21</u>	<u>1025</u>	
<u>[Signature]</u>	<u>Spic N Spun</u>	<u>11/23/21</u>	<u>1025</u>	
<u>[Signature]</u>	<u>Spic N Spun</u>	<u>11/23/21</u>	<u>1055</u>	
<u>[Signature]</u>	<u>Spic N Spun</u>	<u>11/23/21</u>	<u>1055</u>	

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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

November 29, 2021

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2111-244

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on November 23, 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,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 29, 2021
Samples Submitted: November 23, 2021
Laboratory Reference: 2111-244
Project: 060172

Case Narrative

Samples were collected on November 23, 2021 and received by the laboratory on November 23, 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-Gx Analysis

The chromatogram for sample CB-09-22-112321 is similar to mineral spirits.

Volatiles EPA 8260D Analysis

The value reported for Acetone in sample CB-11-5-112321 exceeds the calibration range and is therefore an estimate. The sample was re-analyzed at the lowest possible dilution allowed by Method 5035A with non-detect results for Acetone.

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: November 29, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-244
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-09-5-112321					
Laboratory ID:	11-244-01					
Gasoline	ND	5.1	NWTPH-Gx	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	105	66-129				
Client ID:	CB-09-13-112321					
Laboratory ID:	11-244-02					
Gasoline	ND	6.7	NWTPH-Gx	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	66-129				
Client ID:	CB-09-18-112321					
Laboratory ID:	11-244-03					
Gasoline	ND	8.3	NWTPH-Gx	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	106	66-129				
Client ID:	CB-09-22-112321					
Laboratory ID:	11-244-04					
Gasoline	7.7	7.4	NWTPH-Gx	11-24-21	11-24-21	Z
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	113	66-129				
Client ID:	CB-11-5-112321					
Laboratory ID:	11-244-05					
Gasoline	ND	5.0	NWTPH-Gx	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	66-129				
Client ID:	CB-11-8.5-112321					
Laboratory ID:	11-244-06					
Gasoline	ND	6.4	NWTPH-Gx	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	106	66-129				



Date of Report: November 29, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-244
 Project: 060172

**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:	MB1124S1					
Gasoline	ND	5.0	NWTPH-Gx	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>108</i>	<i>66-129</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-244-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				105	110	66-129		



Date of Report: November 29, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-244
 Project: 060172

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-09-5-112321					
Laboratory ID:	11-244-01					
Dichlorodifluoromethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Chloromethane	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Vinyl Chloride	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Bromomethane	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Chloroethane	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Trichlorofluoromethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Acetone	ND	0.0095	EPA 8260D	11-24-21	11-24-21	
Iodomethane	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Carbon Disulfide	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Methylene Chloride	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Methyl t-Butyl Ether	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Vinyl Acetate	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
2,2-Dichloropropane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
2-Butanone	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Bromochloromethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Chloroform	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Carbon Tetrachloride	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloropropene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Benzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloroethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Trichloroethene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloropropane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Dibromomethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Bromodichloromethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Methyl Isobutyl Ketone	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Toluene	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	



Date of Report: November 29, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-244
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-09-5-112321					
Laboratory ID:	11-244-01					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Tetrachloroethene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,3-Dichloropropane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
2-Hexanone	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Dibromochloromethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromoethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Chlorobenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Ethylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
m,p-Xylene	ND	0.0019	EPA 8260D	11-24-21	11-24-21	
o-Xylene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Styrene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Bromoform	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Isopropylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Bromobenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
n-Propylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
2-Chlorotoluene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
4-Chlorotoluene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,3,5-Trimethylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
tert-Butylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trimethylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
sec-Butylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
p-Isopropyltoluene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
n-Butylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Hexachlorobutadiene	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Naphthalene	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-130</i>				



Date of Report: November 29, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-244
 Project: 060172

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-09-13-112321					
Laboratory ID:	11-244-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Chloromethane	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Vinyl Chloride	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Bromomethane	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Chloroethane	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Acetone	0.096	0.011	EPA 8260D	11-24-21	11-24-21	Y
Iodomethane	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Carbon Disulfide	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Methylene Chloride	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Vinyl Acetate	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
2-Butanone	0.013	0.0055	EPA 8260D	11-24-21	11-24-21	Y
Bromochloromethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Chloroform	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Benzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Trichloroethene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Dibromomethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Methyl Isobutyl Ketone	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Toluene	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-09-13-112321					
Laboratory ID:	11-244-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Tetrachloroethene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
2-Hexanone	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Chlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Ethylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
m,p-Xylene	ND	0.0022	EPA 8260D	11-24-21	11-24-21	
o-Xylene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Styrene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Bromoform	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Isopropylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Bromobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
n-Propylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
tert-Butylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
sec-Butylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
p-Isopropyltoluene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
n-Butylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Hexachlorobutadiene	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Naphthalene	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	95	74-131				
<i>Toluene-d8</i>	103	78-128				
<i>4-Bromofluorobenzene</i>	99	71-130				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-09-18-112321					
Laboratory ID:	11-244-03					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Chloromethane	ND	0.0058	EPA 8260D	11-24-21	11-24-21	
Vinyl Chloride	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Bromomethane	ND	0.0058	EPA 8260D	11-24-21	11-24-21	
Chloroethane	ND	0.0058	EPA 8260D	11-24-21	11-24-21	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Acetone	0.18	0.012	EPA 8260D	11-24-21	11-24-21	Y
Iodomethane	ND	0.0058	EPA 8260D	11-24-21	11-24-21	
Carbon Disulfide	0.0016	0.0012	EPA 8260D	11-24-21	11-24-21	
Methylene Chloride	ND	0.0058	EPA 8260D	11-24-21	11-24-21	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Vinyl Acetate	ND	0.0058	EPA 8260D	11-24-21	11-24-21	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
2-Butanone	0.032	0.0058	EPA 8260D	11-24-21	11-24-21	Y
Bromochloromethane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Chloroform	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Benzene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Trichloroethene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Dibromomethane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Bromodichloromethane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260D	11-24-21	11-24-21	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Methyl Isobutyl Ketone	ND	0.0058	EPA 8260D	11-24-21	11-24-21	
Toluene	ND	0.0058	EPA 8260D	11-24-21	11-24-21	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-09-18-112321					
Laboratory ID:	11-244-03					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Tetrachloroethene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
2-Hexanone	ND	0.0058	EPA 8260D	11-24-21	11-24-21	
Dibromochloromethane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Chlorobenzene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Ethylbenzene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
m,p-Xylene	ND	0.0023	EPA 8260D	11-24-21	11-24-21	
o-Xylene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Styrene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Bromoform	ND	0.0058	EPA 8260D	11-24-21	11-24-21	
Isopropylbenzene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Bromobenzene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
n-Propylbenzene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
2-Chlorotoluene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
4-Chlorotoluene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
tert-Butylbenzene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trimethylbenzene	0.0017	0.0012	EPA 8260D	11-24-21	11-24-21	
sec-Butylbenzene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
n-Butylbenzene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
Hexachlorobutadiene	ND	0.0058	EPA 8260D	11-24-21	11-24-21	
Naphthalene	ND	0.0058	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-09-22-112321					
Laboratory ID:	11-244-04					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Chloromethane	ND	0.0063	EPA 8260D	11-24-21	11-24-21	
Vinyl Chloride	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Bromomethane	ND	0.0063	EPA 8260D	11-24-21	11-24-21	
Chloroethane	ND	0.0063	EPA 8260D	11-24-21	11-24-21	
Trichlorofluoromethane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Acetone	0.27	0.013	EPA 8260D	11-24-21	11-24-21	Y
Iodomethane	ND	0.0063	EPA 8260D	11-24-21	11-24-21	
Carbon Disulfide	0.0018	0.0013	EPA 8260D	11-24-21	11-24-21	
Methylene Chloride	ND	0.0063	EPA 8260D	11-24-21	11-24-21	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Vinyl Acetate	ND	0.0063	EPA 8260D	11-24-21	11-24-21	
2,2-Dichloropropane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
2-Butanone	0.062	0.0063	EPA 8260D	11-24-21	11-24-21	Y
Bromochloromethane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Chloroform	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloropropene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Benzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloroethane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Trichloroethene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloropropane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Dibromomethane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Bromodichloromethane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260D	11-24-21	11-24-21	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Methyl Isobutyl Ketone	ND	0.0063	EPA 8260D	11-24-21	11-24-21	
Toluene	ND	0.0063	EPA 8260D	11-24-21	11-24-21	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-09-22-112321					
Laboratory ID:	11-244-04					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Tetrachloroethene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,3-Dichloropropane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
2-Hexanone	ND	0.0063	EPA 8260D	11-24-21	11-24-21	
Dibromochloromethane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromoethane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Chlorobenzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Ethylbenzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
m,p-Xylene	ND	0.0025	EPA 8260D	11-24-21	11-24-21	
o-Xylene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Styrene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Bromoform	ND	0.0063	EPA 8260D	11-24-21	11-24-21	
Isopropylbenzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Bromobenzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
n-Propylbenzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
2-Chlorotoluene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
4-Chlorotoluene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
tert-Butylbenzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trimethylbenzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
sec-Butylbenzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
p-Isopropyltoluene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
n-Butylbenzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
Hexachlorobutadiene	ND	0.0063	EPA 8260D	11-24-21	11-24-21	
Naphthalene	ND	0.0063	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260D	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-11-5-112321					
Laboratory ID:	11-244-05					
Dichlorodifluoromethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Chloromethane	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Vinyl Chloride	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Bromomethane	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Chloroethane	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Trichlorofluoromethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Acetone	1.1	0.0095	EPA 8260D	11-24-21	11-24-21	Y,E
Iodomethane	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Carbon Disulfide	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Methylene Chloride	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Methyl t-Butyl Ether	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Vinyl Acetate	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
2,2-Dichloropropane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
2-Butanone	0.12	0.0048	EPA 8260D	11-24-21	11-24-21	Y
Bromochloromethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Chloroform	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Carbon Tetrachloride	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloropropene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Benzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloroethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Trichloroethene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloropropane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Dibromomethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Bromodichloromethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Methyl Isobutyl Ketone	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Toluene	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	



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 Project: 060172

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-11-5-112321					
Laboratory ID:	11-244-05					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Tetrachloroethene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,3-Dichloropropane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
2-Hexanone	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Dibromochloromethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromoethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Chlorobenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Ethylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
m,p-Xylene	ND	0.0019	EPA 8260D	11-24-21	11-24-21	
o-Xylene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Styrene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Bromoform	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Isopropylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Bromobenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
n-Propylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
2-Chlorotoluene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
4-Chlorotoluene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,3,5-Trimethylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
tert-Butylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trimethylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
sec-Butylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
p-Isopropyltoluene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
n-Butylbenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
Hexachlorobutadiene	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
Naphthalene	ND	0.0048	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260D	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-130</i>				



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 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-244
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-11-8.5-112321					
Laboratory ID:	11-244-06					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Chloromethane	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Vinyl Chloride	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Bromomethane	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Chloroethane	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Acetone	0.71	0.65	EPA 8260D	11-29-21	11-29-21	
Iodomethane	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Carbon Disulfide	0.0016	0.0011	EPA 8260D	11-24-21	11-24-21	
Methylene Chloride	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Vinyl Acetate	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
2-Butanone	0.13	0.0055	EPA 8260D	11-24-21	11-24-21	Y
Bromochloromethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Chloroform	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Benzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Trichloroethene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Dibromomethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Methyl Isobutyl Ketone	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Toluene	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-11-8.5-112321					
Laboratory ID:	11-244-06					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Tetrachloroethene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
2-Hexanone	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Chlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Ethylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
m,p-Xylene	ND	0.0022	EPA 8260D	11-24-21	11-24-21	
o-Xylene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Styrene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Bromoform	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Isopropylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Bromobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
n-Propylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
tert-Butylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
sec-Butylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
p-Isopropyltoluene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
n-Butylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Hexachlorobutadiene	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
Naphthalene	ND	0.0055	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-07-17-112321					
Laboratory ID:	11-244-07					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Chloromethane	ND	0.0056	EPA 8260D	11-24-21	11-24-21	
Vinyl Chloride	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Bromomethane	ND	0.0056	EPA 8260D	11-24-21	11-24-21	
Chloroethane	ND	0.0056	EPA 8260D	11-24-21	11-24-21	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Acetone	0.30	0.011	EPA 8260D	11-24-21	11-24-21	Y
Iodomethane	ND	0.0056	EPA 8260D	11-24-21	11-24-21	
Carbon Disulfide	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Methylene Chloride	ND	0.0056	EPA 8260D	11-24-21	11-24-21	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Vinyl Acetate	ND	0.0056	EPA 8260D	11-24-21	11-24-21	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
2-Butanone	0.034	0.0056	EPA 8260D	11-24-21	11-24-21	Y
Bromochloromethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Chloroform	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Benzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Trichloroethene	0.0011	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Dibromomethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Bromodichloromethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260D	11-24-21	11-24-21	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Methyl Isobutyl Ketone	ND	0.0056	EPA 8260D	11-24-21	11-24-21	
Toluene	ND	0.0056	EPA 8260D	11-24-21	11-24-21	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-07-17-112321					
Laboratory ID:	11-244-07					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Tetrachloroethene	0.0066	0.0011	EPA 8260D	11-24-21	11-24-21	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
2-Hexanone	ND	0.0056	EPA 8260D	11-24-21	11-24-21	
Dibromochloromethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Chlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Ethylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
m,p-Xylene	ND	0.0023	EPA 8260D	11-24-21	11-24-21	
o-Xylene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Styrene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Bromoform	ND	0.0056	EPA 8260D	11-24-21	11-24-21	
Isopropylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Bromobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
n-Propylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
2-Chlorotoluene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
4-Chlorotoluene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
tert-Butylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
sec-Butylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
p-Isopropyltoluene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
n-Butylbenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
Hexachlorobutadiene	ND	0.0056	EPA 8260D	11-24-21	11-24-21	
Naphthalene	0.0087	0.0056	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-130</i>				



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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:	MB1124S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Chloromethane	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Bromomethane	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Chloroethane	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Acetone	ND	0.010	EPA 8260D	11-24-21	11-24-21	
Iodomethane	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Carbon Disulfide	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Methylene Chloride	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Vinyl Acetate	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
2-Butanone	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Bromochloromethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Chloroform	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Benzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Trichloroethene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Dibromomethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Toluene	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	



Date of Report: November 29, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-244
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1124S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
2-Hexanone	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Chlorobenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Ethylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
m,p-Xylene	ND	0.0020	EPA 8260D	11-24-21	11-24-21	
o-Xylene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Styrene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Bromoform	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Bromobenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
Naphthalene	ND	0.0050	EPA 8260D	11-24-21	11-24-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	11-24-21	11-24-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-130</i>				



Date of Report: November 29, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-244
 Project: 060172

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:	MB1129S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	11-29-21	11-29-21	
Chloromethane	ND	0.0050	EPA 8260D	11-29-21	11-29-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Bromomethane	ND	0.0050	EPA 8260D	11-29-21	11-29-21	
Chloroethane	ND	0.0050	EPA 8260D	11-29-21	11-29-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Acetone	ND	0.010	EPA 8260D	11-29-21	11-29-21	
Iodomethane	ND	0.0050	EPA 8260D	11-29-21	11-29-21	
Carbon Disulfide	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Methylene Chloride	ND	0.0050	EPA 8260D	11-29-21	11-29-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Vinyl Acetate	ND	0.0050	EPA 8260D	11-29-21	11-29-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
2-Butanone	ND	0.0050	EPA 8260D	11-29-21	11-29-21	
Bromochloromethane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Chloroform	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Benzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Trichloroethene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Dibromomethane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	11-29-21	11-29-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	11-29-21	11-29-21	
Toluene	ND	0.0050	EPA 8260D	11-29-21	11-29-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	



Date of Report: November 29, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-244
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1129S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
2-Hexanone	ND	0.0050	EPA 8260D	11-29-21	11-29-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Chlorobenzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Ethylbenzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
m,p-Xylene	ND	0.0020	EPA 8260D	11-29-21	11-29-21	
o-Xylene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Styrene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Bromoform	ND	0.0050	EPA 8260D	11-29-21	11-29-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Bromobenzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	11-29-21	11-29-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	11-29-21	11-29-21	
Naphthalene	ND	0.0050	EPA 8260D	11-29-21	11-29-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	11-29-21	11-29-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>71-130</i>				



Date of Report: November 29, 2021
 Samples Submitted: November 23, 2021
 Laboratory Reference: 2111-244
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1124S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0507	0.0578	0.0500	0.0500	101	116	71-131	13	19	
Benzene	0.0515	0.0569	0.0500	0.0500	103	114	73-124	10	18	
Trichloroethene	0.0533	0.0606	0.0500	0.0500	107	121	79-130	13	18	
Toluene	0.0495	0.0554	0.0500	0.0500	99	111	76-123	11	18	
Chlorobenzene	0.0453	0.0502	0.0500	0.0500	91	100	78-122	10	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	98	74-131			
<i>Toluene-d8</i>					104	104	78-128			
<i>4-Bromofluorobenzene</i>					106	106	71-130			
Laboratory ID:	SB1129S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0524	0.0543	0.0500	0.0500	105	109	71-131	4	19	
Benzene	0.0537	0.0552	0.0500	0.0500	107	110	73-124	3	18	
Trichloroethene	0.0549	0.0573	0.0500	0.0500	110	115	79-130	4	18	
Toluene	0.0510	0.0528	0.0500	0.0500	102	106	76-123	3	18	
Chlorobenzene	0.0458	0.0470	0.0500	0.0500	92	94	78-122	3	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					103	103	74-131			
<i>Toluene-d8</i>					105	106	78-128			
<i>4-Bromofluorobenzene</i>					108	106	71-130			



Date of Report: November 29, 2021
Samples Submitted: November 23, 2021
Laboratory Reference: 2111-244
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
CB-09-5-112321	11-244-01	6	11-24-21
CB-09-13-112321	11-244-02	17	11-24-21
CB-09-18-112321	11-244-03	26	11-24-21
CB-09-22-112321	11-244-04	26	11-24-21
CB-11-5-112321	11-244-05	6	11-24-21
CB-11-8.5-112321	11-244-06	19	11-24-21
CB-07-17-112321	11-244-07	23	11-24-21





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z - The sample chromatogram is similar to mineral spirits.
- 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

Turnaround Request
 (In working days)
 (Check One)

- Same Day 1 Day
- 2 Days 3 Days
- Standard (7 Days)
 (TPH analysis 5 Days)

Results by COB Monday (other)

Laboratory Number: **11-244**

Company: Aspect Consultancy
 Project Number: 060172
 Project Name: Soil in Spun
 Project Manager: Jeremy Porter
 Sampled by: PKC

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> 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	CB-09-5-112321	11/23/21	0945	Soil	5			X		X															
2	CB-09-13-112321		1010																						
3	CB-09-18-112321		1030																						
4	CB-09-22-112321		1100																						
5	CB-11-5-112321		1125																						
6	CB-11-8.5-112321		1150																						
7	CB-07-17-112321		1440																						

Relinquished	Signature	Company	Date	Time	Comments/Special Instructions
Received		Aspect	11/23/21	1625	
Relinquished			11/23/21	1625	
Received					
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Reviewed/Date		Reviewed/Date			

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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

December 6, 2021

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2112-041

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on December 3, 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,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: December 6, 2021
Samples Submitted: December 3, 2021
Laboratory Reference: 2112-041
Project: 060172

Case Narrative

Samples were collected on December 3, 2021 and received by the laboratory on December 3, 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 Analysis

The value reported for Acetone in sample CB-2A-3-120321 exceeds the calibration range and is therefore an estimate. The sample was re-analyzed at the lowest possible dilution allowed by Method 5035A with non-detect results for Acetone.

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



Date of Report: December 6, 2021
 Samples Submitted: December 3, 2021
 Laboratory Reference: 2112-041
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-4A-6-120321					
Laboratory ID:	12-041-01					
Gasoline	ND	5.7	NWTPH-Gx	12-3-21	12-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	106	66-129				
Client ID:	CB-2A-3-120321					
Laboratory ID:	12-041-02					
Gasoline	ND	5.1	NWTPH-Gx	12-3-21	12-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	114	66-129				
Client ID:	CB-2A-18-120321					
Laboratory ID:	12-041-03					
Gasoline	ND	6.6	NWTPH-Gx	12-3-21	12-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	111	66-129				



Date of Report: December 6, 2021
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 Project: 060172

**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:	MB1203S1					
Gasoline	ND	5.0	NWTPH-Gx	12-3-21	12-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	105	66-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-041-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				106	108	66-129		



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 Project: 060172

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-4A-6-120321					
Laboratory ID:	12-041-01					
Dichlorodifluoromethane	ND	0.0017	EPA 8260D	12-3-21	12-3-21	
Chloromethane	ND	0.0059	EPA 8260D	12-3-21	12-3-21	
Vinyl Chloride	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Bromomethane	ND	0.0059	EPA 8260D	12-3-21	12-3-21	
Chloroethane	ND	0.0059	EPA 8260D	12-3-21	12-3-21	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Acetone	0.083	0.012	EPA 8260D	12-3-21	12-3-21	
Iodomethane	ND	0.0059	EPA 8260D	12-3-21	12-3-21	
Carbon Disulfide	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Methylene Chloride	ND	0.0059	EPA 8260D	12-3-21	12-3-21	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Vinyl Acetate	ND	0.0059	EPA 8260D	12-3-21	12-3-21	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
2-Butanone	0.0065	0.0059	EPA 8260D	12-3-21	12-3-21	
Bromochloromethane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Chloroform	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Benzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Trichloroethene	0.0020	0.0012	EPA 8260D	12-3-21	12-3-21	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Dibromomethane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Bromodichloromethane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260D	12-3-21	12-3-21	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Methyl Isobutyl Ketone	ND	0.0059	EPA 8260D	12-3-21	12-3-21	
Toluene	ND	0.0059	EPA 8260D	12-3-21	12-3-21	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-4A-6-120321					
Laboratory ID:	12-041-01					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Tetrachloroethene	0.0076	0.0012	EPA 8260D	12-3-21	12-3-21	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
2-Hexanone	ND	0.0059	EPA 8260D	12-3-21	12-3-21	
Dibromochloromethane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Chlorobenzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Ethylbenzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
m,p-Xylene	ND	0.0024	EPA 8260D	12-3-21	12-3-21	
o-Xylene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Styrene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Bromoform	ND	0.0059	EPA 8260D	12-3-21	12-3-21	
Isopropylbenzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Bromobenzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
n-Propylbenzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
2-Chlorotoluene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
4-Chlorotoluene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
tert-Butylbenzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
sec-Butylbenzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
n-Butylbenzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260D	12-3-21	12-3-21	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
Hexachlorobutadiene	ND	0.0059	EPA 8260D	12-3-21	12-3-21	
Naphthalene	ND	0.0059	EPA 8260D	12-3-21	12-3-21	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	12-3-21	12-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-2A-3-120321					
Laboratory ID:	12-041-02					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	12-3-21	12-3-21	
Chloromethane	ND	0.0045	EPA 8260D	12-3-21	12-3-21	
Vinyl Chloride	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Bromomethane	ND	0.0045	EPA 8260D	12-3-21	12-3-21	
Chloroethane	ND	0.0045	EPA 8260D	12-3-21	12-3-21	
Trichlorofluoromethane	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloroethene	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Acetone	0.51	0.0090	EPA 8260D	12-3-21	12-3-21	E
Iodomethane	ND	0.0045	EPA 8260D	12-3-21	12-3-21	
Carbon Disulfide	0.00091	0.00090	EPA 8260D	12-3-21	12-3-21	
Methylene Chloride	ND	0.0045	EPA 8260D	12-3-21	12-3-21	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Methyl t-Butyl Ether	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloroethane	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Vinyl Acetate	ND	0.0045	EPA 8260D	12-3-21	12-3-21	
2,2-Dichloropropane	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
2-Butanone	0.066	0.0045	EPA 8260D	12-3-21	12-3-21	
Bromochloromethane	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Chloroform	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Carbon Tetrachloride	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloropropene	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Benzene	0.0011	0.00090	EPA 8260D	12-3-21	12-3-21	
1,2-Dichloroethane	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Trichloroethene	0.012	0.00090	EPA 8260D	12-3-21	12-3-21	
1,2-Dichloropropane	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Dibromomethane	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Bromodichloromethane	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260D	12-3-21	12-3-21	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Methyl Isobutyl Ketone	ND	0.0045	EPA 8260D	12-3-21	12-3-21	
Toluene	ND	0.0045	EPA 8260D	12-3-21	12-3-21	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260D	12-3-21	12-3-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-2A-3-120321					
Laboratory ID:	12-041-02					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Tetrachloroethene	0.20	0.050	EPA 8260D	12-3-21	12-3-21	
1,3-Dichloropropane	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
2-Hexanone	ND	0.0045	EPA 8260D	12-3-21	12-3-21	
Dibromochloromethane	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
1,2-Dibromoethane	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Chlorobenzene	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Ethylbenzene	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
m,p-Xylene	ND	0.0018	EPA 8260D	12-3-21	12-3-21	
o-Xylene	0.00091	0.00090	EPA 8260D	12-3-21	12-3-21	
Styrene	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Bromoform	ND	0.0045	EPA 8260D	12-3-21	12-3-21	
Isopropylbenzene	ND	0.00090	EPA 8260D	12-3-21	12-3-21	
Bromobenzene	ND	0.050	EPA 8260D	12-3-21	12-3-21	
1,1,2,2-Tetrachloroethane	ND	0.050	EPA 8260D	12-3-21	12-3-21	
1,2,3-Trichloropropane	ND	0.050	EPA 8260D	12-3-21	12-3-21	
n-Propylbenzene	ND	0.050	EPA 8260D	12-3-21	12-3-21	
2-Chlorotoluene	ND	0.050	EPA 8260D	12-3-21	12-3-21	
4-Chlorotoluene	ND	0.050	EPA 8260D	12-3-21	12-3-21	
1,3,5-Trimethylbenzene	ND	0.050	EPA 8260D	12-3-21	12-3-21	
tert-Butylbenzene	ND	0.050	EPA 8260D	12-3-21	12-3-21	
1,2,4-Trimethylbenzene	ND	0.050	EPA 8260D	12-3-21	12-3-21	
sec-Butylbenzene	ND	0.050	EPA 8260D	12-3-21	12-3-21	
1,3-Dichlorobenzene	ND	0.050	EPA 8260D	12-3-21	12-3-21	
p-Isopropyltoluene	ND	0.050	EPA 8260D	12-3-21	12-3-21	
1,4-Dichlorobenzene	ND	0.050	EPA 8260D	12-3-21	12-3-21	
1,2-Dichlorobenzene	ND	0.050	EPA 8260D	12-3-21	12-3-21	
n-Butylbenzene	ND	0.050	EPA 8260D	12-3-21	12-3-21	
1,2-Dibromo-3-chloropropane	ND	0.25	EPA 8260D	12-3-21	12-3-21	
1,2,4-Trichlorobenzene	ND	0.050	EPA 8260D	12-3-21	12-3-21	
Hexachlorobutadiene	ND	0.25	EPA 8260D	12-3-21	12-3-21	
Naphthalene	ND	0.25	EPA 8260D	12-3-21	12-3-21	
1,2,3-Trichlorobenzene	ND	0.050	EPA 8260D	12-3-21	12-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>71-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-2A-18-120321					
Laboratory ID:	12-041-03					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	12-3-21	12-3-21	
Chloromethane	ND	0.0046	EPA 8260D	12-3-21	12-3-21	
Vinyl Chloride	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Bromomethane	ND	0.0046	EPA 8260D	12-3-21	12-3-21	
Chloroethane	ND	0.0046	EPA 8260D	12-3-21	12-3-21	
Trichlorofluoromethane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloroethene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Acetone	0.59	0.55	EPA 8260D	12-3-21	12-3-21	
Iodomethane	ND	0.0046	EPA 8260D	12-3-21	12-3-21	
Carbon Disulfide	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Methylene Chloride	ND	0.0046	EPA 8260D	12-3-21	12-3-21	
(trans) 1,2-Dichloroethene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Methyl t-Butyl Ether	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloroethane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Vinyl Acetate	ND	0.0046	EPA 8260D	12-3-21	12-3-21	
2,2-Dichloropropane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
(cis) 1,2-Dichloroethene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
2-Butanone	0.12	0.0046	EPA 8260D	12-3-21	12-3-21	
Bromochloromethane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Chloroform	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,1,1-Trichloroethane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Carbon Tetrachloride	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloropropene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Benzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,2-Dichloroethane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Trichloroethene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,2-Dichloropropane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Dibromomethane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Bromodichloromethane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260D	12-3-21	12-3-21	
(cis) 1,3-Dichloropropene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Methyl Isobutyl Ketone	ND	0.0046	EPA 8260D	12-3-21	12-3-21	
Toluene	ND	0.0046	EPA 8260D	12-3-21	12-3-21	
(trans) 1,3-Dichloropropene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-2A-18-120321					
Laboratory ID:	12-041-03					
1,1,2-Trichloroethane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Tetrachloroethene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,3-Dichloropropane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
2-Hexanone	ND	0.0046	EPA 8260D	12-3-21	12-3-21	
Dibromochloromethane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,2-Dibromoethane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Chlorobenzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,1,1,2-Tetrachloroethane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Ethylbenzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
m,p-Xylene	ND	0.0018	EPA 8260D	12-3-21	12-3-21	
o-Xylene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Styrene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Bromoform	ND	0.0046	EPA 8260D	12-3-21	12-3-21	
Isopropylbenzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Bromobenzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,1,2,2-Tetrachloroethane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,2,3-Trichloropropane	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
n-Propylbenzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
2-Chlorotoluene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
4-Chlorotoluene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,3,5-Trimethylbenzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
tert-Butylbenzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,2,4-Trimethylbenzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
sec-Butylbenzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,3-Dichlorobenzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
p-Isopropyltoluene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,4-Dichlorobenzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,2-Dichlorobenzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
n-Butylbenzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260D	12-3-21	12-3-21	
1,2,4-Trichlorobenzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
Hexachlorobutadiene	ND	0.0046	EPA 8260D	12-3-21	12-3-21	
Naphthalene	ND	0.0046	EPA 8260D	12-3-21	12-3-21	
1,2,3-Trichlorobenzene	ND	0.00092	EPA 8260D	12-3-21	12-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-130</i>				



Date of Report: December 6, 2021
 Samples Submitted: December 3, 2021
 Laboratory Reference: 2112-041
 Project: 060172

**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:	MB1203S1					
Dichlorodifluoromethane	ND	0.0014	EPA 8260D	12-3-21	12-3-21	
Chloromethane	ND	0.0050	EPA 8260D	12-3-21	12-3-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Bromomethane	ND	0.0050	EPA 8260D	12-3-21	12-3-21	
Chloroethane	ND	0.0050	EPA 8260D	12-3-21	12-3-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Acetone	ND	0.010	EPA 8260D	12-3-21	12-3-21	
Iodomethane	ND	0.0050	EPA 8260D	12-3-21	12-3-21	
Carbon Disulfide	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Methylene Chloride	ND	0.0050	EPA 8260D	12-3-21	12-3-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Vinyl Acetate	ND	0.0050	EPA 8260D	12-3-21	12-3-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
2-Butanone	ND	0.0050	EPA 8260D	12-3-21	12-3-21	
Bromochloromethane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Chloroform	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Benzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Trichloroethene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Dibromomethane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	12-3-21	12-3-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	12-3-21	12-3-21	
Toluene	ND	0.0050	EPA 8260D	12-3-21	12-3-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	



Date of Report: December 6, 2021
 Samples Submitted: December 3, 2021
 Laboratory Reference: 2112-041
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1203S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
2-Hexanone	ND	0.0050	EPA 8260D	12-3-21	12-3-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Chlorobenzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Ethylbenzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
m,p-Xylene	ND	0.0020	EPA 8260D	12-3-21	12-3-21	
o-Xylene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Styrene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Bromoform	ND	0.0050	EPA 8260D	12-3-21	12-3-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Bromobenzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	12-3-21	12-3-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	12-3-21	12-3-21	
Naphthalene	ND	0.0050	EPA 8260D	12-3-21	12-3-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	12-3-21	12-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-130</i>				



Date of Report: December 6, 2021
 Samples Submitted: December 3, 2021
 Laboratory Reference: 2112-041
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1203S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0462	0.0473	0.0500	0.0500	92	95	71-131	2	19	
Benzene	0.0471	0.0477	0.0500	0.0500	94	95	73-124	1	18	
Trichloroethene	0.0548	0.0558	0.0500	0.0500	110	112	79-130	2	18	
Toluene	0.0505	0.0513	0.0500	0.0500	101	103	76-123	2	18	
Chlorobenzene	0.0541	0.0546	0.0500	0.0500	108	109	78-122	1	18	
<i>Surrogate:</i>										
Dibromofluoromethane					100	99	74-131			
Toluene-d8					100	101	78-128			
4-Bromofluorobenzene					100	101	71-130			



Date of Report: December 6, 2021
Samples Submitted: December 3, 2021
Laboratory Reference: 2112-041
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
CB-4A-6-120321	12-041-01	9	12-3-21
CB-2A-3-120321	12-041-02	13	12-3-21
CB-2A-18-120321	12-041-03	17	12-3-21





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





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

January 14, 2022

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2201-077

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on January 11, 2022.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: January 14, 2022
Samples Submitted: January 11, 2022
Laboratory Reference: 2201-077
Project: 060172

Case Narrative

Samples were collected on January 10 and 11, 2022 and received by the laboratory on January 11, 2022. 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: January 14, 2022
 Samples Submitted: January 11, 2022
 Laboratory Reference: 2201-077
 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-08-19.5-011022					
Laboratory ID:	01-077-02					
Gasoline	ND	8.3	NWTPH-Gx	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	109	66-129				
Client ID:	CB-08-27-011022					
Laboratory ID:	01-077-03					
Gasoline	ND	5.0	NWTPH-Gx	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	109	66-129				
Client ID:	CB-14-20-011022					
Laboratory ID:	01-077-04					
Gasoline	ND	5.4	NWTPH-Gx	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	112	66-129				
Client ID:	CB-14-22-011022					
Laboratory ID:	01-077-05					
Gasoline	ND	5.8	NWTPH-Gx	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	110	66-129				
Client ID:	CB-14-24.5-011022					
Laboratory ID:	01-077-06					
Gasoline	ND	6.4	NWTPH-Gx	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	113	66-129				



Date of Report: January 14, 2022
 Samples Submitted: January 11, 2022
 Laboratory Reference: 2201-077
 Project: 060172

**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:	MB0112S1					
Gasoline	ND	5.0	NWTPH-Gx	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	99	66-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-084-03							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				96	102	66-129		



Date of Report: January 14, 2022
 Samples Submitted: January 11, 2022
 Laboratory Reference: 2201-077
 Project: 060172

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-08-19.5-011022					
Laboratory ID:	01-077-02					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Acetone	0.15	0.012	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	0.0051	0.0012	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Butanone	0.028	0.0058	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	



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Date of Report: January 14, 2022
 Samples Submitted: January 11, 2022
 Laboratory Reference: 2201-077
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-08-19.5-011022					
Laboratory ID:	01-077-02					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0023	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
Naphthalene	ND	0.0058	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-130</i>				



Date of Report: January 14, 2022
 Samples Submitted: January 11, 2022
 Laboratory Reference: 2201-077
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-08-27-011022					
Laboratory ID:	01-077-03					
Dichlorodifluoromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Acetone	0.15	0.0097	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Butanone	0.030	0.0048	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-08-27-011022					
Laboratory ID:	01-077-03					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0019	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	0.0011	0.00097	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Naphthalene	0.015	0.0048	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-13-24.5-011022					
Laboratory ID:	01-077-07					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Acetone	0.098	0.012	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	0.0043	0.0012	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Butanone	0.014	0.0060	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-13-24.5-011022					
Laboratory ID:	01-077-07					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0024	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Naphthalene	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-06-24-011122					
Laboratory ID:	01-077-08					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Acetone	0.21	0.012	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Butanone	0.038	0.0059	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-06-24-011122					
Laboratory ID:	01-077-08					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0023	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0059	EPA 8260D	1-12-22	1-12-22	
Naphthalene	0.037	0.0059	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-130</i>				



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 Samples Submitted: January 11, 2022
 Laboratory Reference: 2201-077
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-07-15.5-011122					
Laboratory ID:	01-077-09					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Acetone	0.49	0.011	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
2-Butanone	0.056	0.0053	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-07-15.5-011122					
Laboratory ID:	01-077-09					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	0.014	0.0011	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0021	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0053	EPA 8260D	1-12-22	1-12-22	
Naphthalene	0.042	0.0053	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-07-19-011122					
Laboratory ID:	01-077-10					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Acetone	0.31	0.012	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Butanone	0.050	0.0060	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-07-19-011122					
Laboratory ID:	01-077-10					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	0.0013	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0024	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0060	EPA 8260D	1-12-22	1-12-22	
Naphthalene	0.12	0.0060	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-130</i>				



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 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-07-26.5-011122					
Laboratory ID:	01-077-11					
Dichlorodifluoromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Acetone	1.4	0.47	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	0.0029	0.00097	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	0.0023	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Butanone	0.12	0.0048	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-07-26.5-011122					
Laboratory ID:	01-077-11					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	0.0016	0.00097	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0019	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	0.0012	0.00097	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	0.0050	0.00097	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0048	EPA 8260D	1-12-22	1-12-22	
Naphthalene	0.0094	0.0048	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-130</i>				



Date of Report: January 14, 2022
 Samples Submitted: January 11, 2022
 Laboratory Reference: 2201-077
 Project: 060172

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:	MB0112S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Chloromethane	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Vinyl Chloride	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Bromomethane	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Chloroethane	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Acetone	ND	0.010	EPA 8260D	1-12-22	1-12-22	
Iodomethane	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Carbon Disulfide	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Methylene Chloride	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Vinyl Acetate	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
2-Butanone	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Bromochloromethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Chloroform	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Benzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Trichloroethene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Dibromomethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Bromodichloromethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Toluene	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	



Date of Report: January 14, 2022
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 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0112S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Tetrachloroethene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
2-Hexanone	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Dibromochloromethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Chlorobenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Ethylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
m,p-Xylene	ND	0.0020	EPA 8260D	1-12-22	1-12-22	
o-Xylene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Styrene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Bromoform	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Isopropylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Bromobenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
n-Propylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
2-Chlorotoluene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
4-Chlorotoluene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
tert-Butylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
sec-Butylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
n-Butylbenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
Naphthalene	ND	0.0050	EPA 8260D	1-12-22	1-12-22	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	1-12-22	1-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-130</i>				



Date of Report: January 14, 2022
 Samples Submitted: January 11, 2022
 Laboratory Reference: 2201-077
 Project: 060172

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:	MB0113S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Acetone	ND	0.010	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	0.0069	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Butanone	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Benzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	



Date of Report: January 14, 2022
 Samples Submitted: January 11, 2022
 Laboratory Reference: 2201-077
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0113S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	0.0020	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Naphthalene	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-130</i>				



Date of Report: January 14, 2022
 Samples Submitted: January 11, 2022
 Laboratory Reference: 2201-077
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0112S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0499	0.0503	0.0500	0.0500	100	101	71-131	1	19	
Benzene	0.0495	0.0511	0.0500	0.0500	99	102	73-124	3	18	
Trichloroethene	0.0511	0.0523	0.0500	0.0500	102	105	79-130	2	18	
Toluene	0.0496	0.0503	0.0500	0.0500	99	101	76-123	1	18	
Chlorobenzene	0.0484	0.0490	0.0500	0.0500	97	98	78-122	1	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					105	105	74-131			
<i>Toluene-d8</i>					103	103	78-128			
<i>4-Bromofluorobenzene</i>					105	103	71-130			
Laboratory ID:	SB0113S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0520	0.0528	0.0500	0.0500	104	106	71-131	2	19	
Benzene	0.0511	0.0533	0.0500	0.0500	102	107	73-124	4	18	
Trichloroethene	0.0530	0.0551	0.0500	0.0500	106	110	79-130	4	18	
Toluene	0.0505	0.0512	0.0500	0.0500	101	102	76-123	1	18	
Chlorobenzene	0.0496	0.0508	0.0500	0.0500	99	102	78-122	2	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					101	104	74-131			
<i>Toluene-d8</i>					102	102	78-128			
<i>4-Bromofluorobenzene</i>					108	107	71-130			



Date of Report: January 14, 2022
Samples Submitted: January 11, 2022
Laboratory Reference: 2201-077
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
CB-08-19.5-011022	01-077-02	26	1-12-22
CB-08-27-011022	01-077-03	12	1-12-22
CB-14-20-011022	01-077-04	15	1-12-22
CB-14-22-011022	01-077-05	13	1-12-22
CB-14-24.5-011022	01-077-06	21	1-12-22
CB-13-24.5-011022	01-077-07	13	1-12-22
CB-06-24-011122	01-077-08	24	1-12-22
CB-07-15.5-011122	01-077-09	21	1-12-22
CB-07-19-011122	01-077-10	17	1-12-22
CB-07-26.5-011122	01-077-11	11	1-12-22





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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





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

January 14, 2022

Jeremy Porter
Aspect Consulting
Dexter Horton Building
710 2nd Avenue, Suite 550
Seattle, WA 98104

Re: Analytical Data for Project 060172
Laboratory Reference No. 2201-094

Dear Jeremy:

Enclosed are the analytical results and associated quality control data for samples submitted on January 12, 2022.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: January 14, 2022
Samples Submitted: January 12, 2022
Laboratory Reference: 2201-094
Project: 060172

Case Narrative

Samples were collected on January 12, 2022 and received by the laboratory on January 12, 2022. 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-Gx Analysis - Water

The chromatograms for samples MW-3R-011222, MW-2R-011222, and VE-1R-011222 are not similar to a typical gas.

NWTPH-Gx Analysis - Soil

The chromatogram for sample CB-11-20-011222 is similar to mineral spirits.

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.



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 Project: 060172

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-011222					
Laboratory ID:	01-094-01					
Gasoline	ND	100	NWTPH-Gx	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	66-117				
Client ID:	MW-3R-011222					
Laboratory ID:	01-094-02					
Gasoline	130	100	NWTPH-Gx	1-13-22	1-13-22	T
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	66-117				
Client ID:	MW-2R-011222					
Laboratory ID:	01-094-03					
Gasoline	350	100	NWTPH-Gx	1-13-22	1-13-22	T
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	66-117				
Client ID:	VE-1R-011222					
Laboratory ID:	01-094-04					
Gasoline	180	100	NWTPH-Gx	1-13-22	1-13-22	T
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	66-117				



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0113W1					
Gasoline	ND	100	NWTPH-Gx	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	99	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-094-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				98	98	66-117		



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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:	CB-11-20-011222					
Laboratory ID:	01-094-05					
Gasoline	8.1	4.8	NWTPH-Gx	1-13-22	1-13-22	Z
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	109	66-129				
Client ID:	CB-11-24-011222					
Laboratory ID:	01-094-06					
Gasoline	ND	4.8	NWTPH-Gx	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	96	66-129				



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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:	MB0113S1					
Gasoline	ND	5.0	NWTPH-Gx	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	97	66-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-094-05							
	ORIG	DUP						
Gasoline	6.41	5.07	NA	NA	NA	NA	23	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				109	111	66-129		



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-011222					
Laboratory ID:	01-094-01					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	10	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	10	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Acetone	650	50	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	63	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	10	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	10	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	32	2.0	EPA 8260D	1-13-22	1-13-22	
2-Butanone	120	50	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Benzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	2.2	2.0	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	5.6	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	2.5	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	20	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	10	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-011222					
Laboratory ID:	01-094-01					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	4.0	2.0	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	20	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	4.0	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	10	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	2.6	2.0	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	10	EPA 8260D	1-13-22	1-13-22	
Naphthalene	170	10	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date	Date	Flags
				Prepared	Analyzed	
Client ID:	MW-3R-011222					
Laboratory ID:	01-094-02					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	10	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	10	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Acetone	860	50	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	63	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	10	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	10	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Butanone	150	50	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Benzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	2.5	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	20	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	10	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3R-011222					
Laboratory ID:	01-094-02					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	20	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	4.0	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	10	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	3.5	2.0	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	10	EPA 8260D	1-13-22	1-13-22	
Naphthalene	16	10	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>78-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2R-011222					
Laboratory ID:	01-094-03					
Dichlorodifluoromethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	4.0	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	2.5	0.80	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	4.0	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Acetone	400	20	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	25	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	4.0	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	0.93	0.80	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	4.0	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	52	0.80	EPA 8260D	1-13-22	1-13-22	
2-Butanone	98	20	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Benzene	2.1	0.80	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	4.8	0.80	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	1.0	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	8.0	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	4.0	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	0.80	EPA 8260D	1-13-22	1-13-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2R-011222					
Laboratory ID:	01-094-03					
1,1,2-Trichloroethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	8.0	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	1.7	0.80	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	3.4	1.6	EPA 8260D	1-13-22	1-13-22	
o-Xylene	1.5	0.80	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	4.0	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	0.98	0.80	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	0.80	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	3.9	0.80	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	1.2	0.80	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	9.4	0.80	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	1.3	0.80	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	3.5	0.80	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	2.8	0.80	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	4.0	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	4.0	EPA 8260D	1-13-22	1-13-22	
Naphthalene	74	4.0	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	0.80	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

VOLATILE ORGANICS EPA 8260D
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date	Date	Flags
				Prepared	Analyzed	
Client ID:	VE-1R-011222					
Laboratory ID:	01-094-04					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	10	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	10	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Acetone	430	50	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	63	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	10	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	10	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Butanone	97	50	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Benzene	3.3	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	2.5	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	20	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	10	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	1-13-22	1-13-22	



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	VE-1R-011222					
Laboratory ID:	01-094-04					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	20	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	4.0	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	10	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	2.8	2.0	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	10	EPA 8260D	1-13-22	1-13-22	
Naphthalene	96	10	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-125</i>				



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0113W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	1.0	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	1.0	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Acetone	ND	5.0	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	6.3	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	1.0	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	1.0	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
2-Butanone	ND	5.0	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Benzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	0.25	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	1.0	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	1-13-22	1-13-22	



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0113W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	2.0	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	0.40	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	1.0	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	1-13-22	1-13-22	
Naphthalene	ND	1.0	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>78-125</i>				



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0113W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	11.1	10.0	10.0	107	111	78-125	4	19	
Benzene	10.3	10.5	10.0	10.0	103	105	80-119	2	16	
Trichloroethene	9.17	9.36	10.0	10.0	92	94	80-121	2	18	
Toluene	8.85	8.95	10.0	10.0	89	90	80-117	1	18	
Chlorobenzene	8.89	9.11	10.0	10.0	89	91	80-117	2	17	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					108	110	75-127			
<i>Toluene-d8</i>					103	104	80-127			
<i>4-Bromofluorobenzene</i>					102	104	78-125			



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-11-20-011222					
Laboratory ID:	01-094-05					
Dichlorodifluoromethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Acetone	0.20	0.0060	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	0.0041	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
2-Butanone	0.033	0.0030	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Benzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
2-Chloroethyl Vinyl Ether	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-11-20-011222					
Laboratory ID:	01-094-05					
1,1,2-Trichloroethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	0.0012	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	0.00081	0.00060	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	0.0019	0.00060	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	0.0013	0.00060	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
Naphthalene	0.030	0.0030	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	0.00060	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-130</i>				



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 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-11-24-011222					
Laboratory ID:	01-094-06					
Dichlorodifluoromethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Acetone	0.80	0.55	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	0.010	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	0.0018	0.0015	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
2-Butanone	0.13	0.0075	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Benzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
2-Chloroethyl Vinyl Ether	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-11-24-011222					
Laboratory ID:	01-094-06					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	0.0030	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	0.0031	0.0015	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	0.0077	0.0015	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	0.0058	0.0015	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	0.0020	0.0015	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	0.0051	0.0015	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	0.0075	EPA 8260D	1-13-22	1-13-22	
Naphthalene	0.25	0.0075	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-130</i>				



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

**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:	MB0113S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Chloromethane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Vinyl Chloride	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromomethane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Chloroethane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Acetone	ND	0.010	EPA 8260D	1-13-22	1-13-22	
Iodomethane	ND	0.0069	EPA 8260D	1-13-22	1-13-22	
Carbon Disulfide	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Methylene Chloride	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Vinyl Acetate	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Butanone	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Bromochloromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Chloroform	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Benzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Trichloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Dibromomethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromodichloromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Toluene	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	



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 Project: 060172

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0113S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Tetrachloroethene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Hexanone	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Dibromochloromethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Chlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Ethylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
m,p-Xylene	ND	0.0020	EPA 8260D	1-13-22	1-13-22	
o-Xylene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Styrene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromoform	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Isopropylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Bromobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
n-Propylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
2-Chlorotoluene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
4-Chlorotoluene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
tert-Butylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
sec-Butylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
n-Butylbenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
Naphthalene	ND	0.0050	EPA 8260D	1-13-22	1-13-22	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	1-13-22	1-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-130</i>				



Date of Report: January 14, 2022
 Samples Submitted: January 12, 2022
 Laboratory Reference: 2201-094
 Project: 060172

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0113S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0520	0.0528	0.0500	0.0500	104	106	71-131	2	19	
Benzene	0.0511	0.0533	0.0500	0.0500	102	107	73-124	4	18	
Trichloroethene	0.0530	0.0551	0.0500	0.0500	106	110	79-130	4	18	
Toluene	0.0505	0.0512	0.0500	0.0500	101	102	76-123	1	18	
Chlorobenzene	0.0496	0.0508	0.0500	0.0500	99	102	78-122	2	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>101</i>	<i>104</i>	<i>74-131</i>			
<i>Toluene-d8</i>					<i>102</i>	<i>102</i>	<i>78-128</i>			
<i>4-Bromofluorobenzene</i>					<i>108</i>	<i>107</i>	<i>71-130</i>			



Date of Report: January 14, 2022
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Laboratory Reference: 2201-094
Project: 060172

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
CB-11-20-011222	01-094-05	21	1-13-22
CB-11-24-011222	01-094-06	23	1-13-22





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 gas.
 - 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.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z - The sample chromatogram is similar to mineral spirits.
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



