

June 20, 2019

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Blueprint Capital Services, LLC
PO Box 16428
Seattle, Washington 98116

Attention: Dan Duffus

Subject: **Transmittal Letter**
Remedial Investigation and Feasibility Study Report
All Star Cleaners
1222 Northeast 65th Street
Seattle, Washington 98105
Ecology Facility Site ID 16182
Voluntary Cleanup Program Project No. NW3110

Dear Mr. Duffus:

via e-mail dan@blueprintcap.com

Geotech Consultants, Inc. is pleased to present the results of our remediation investigation and feasibility study property formerly developed with the All Star Cleaners at 1222 Northeast 65th Street in Seattle. This report was prepared in accordance with the terms of our revised proposal dated May 15, 2015 and our supplemental proposal of November 15, 2016.

We appreciate this opportunity to be of service to you on this project. If you have any questions, or if we may be of additional service, please contact us.

Respectfully submitted,

GEOTECH CONSULTANTS, INC.

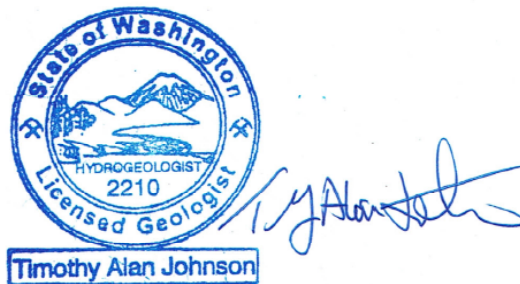


Timothy A. Johnson
Licensed Hydrogeologist

**Remedial Investigation and Feasibility Study
All Star Cleaners
1222 Northeast 65th Street
Seattle, Washington 98105
Ecology Facility Site ID 16182
Voluntary Cleanup Program Project No. NW3110**

Submitted by:

GEOTECH CONSULTANTS, INC.



**Timothy Alan Johnson
Licensed Hydrogeologist**

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ACRONYMS AND ABBREVIATIONS

Acronyms & Abbreviations	Definitions
1,1- DCE	1,1-Dichloroethene
ARAR	Applicable or Relevant and Appropriate Requirements
BGS	below ground surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
cis 1,2-DCE	(cis) 1,2-Dichloroethene
CLARC	Cleanup Levels and Risk Calculation
COC	Contaminant/Chemical of Concern
CSID	Cleanup Site Identification number
CSM	Conceptual Site Model
CUL	Clean-up Levels
EM	Electromagnetic Device
FSID	Facility Site Identification Number
GPR	Ground Penetrating Radar
HVOCs	Halogenated Volatile Organic Compounds
Mg/Kg	Milligrams per Kilograms
MTCA	Model Toxics Control Act
NFA	No Further Action
PCE	Tetrachloroethene
PID	Photoionization device
PPB	Parts Per Billion
PPM	Parts Per Million
QAPP	Quality Assurance Project Plan
RCW	Revised Code of Washington
RAO	Remedial Action Objectives
TEE	Terrestrial Ecological Evaluation
TCE	Trichloroethylene
trans 1,2-DCE	(trans) 1,2-Dichloroethene
TPH	total petroleum hydrocarbon
VC	Vinyl Chloride
VCP	Voluntary Cleanup Program
VOCs	Volatile Organic Compounds
WAC	Washington State Administrative Code
WDOE	Washington Department of Ecology

**Remedial Investigation and Feasibility Study
All Star Cleaners
1222 Northeast 65th Street
Seattle, Washington 98105
Ecology Facility Site ID 16182
Voluntary Cleanup Program Project No. NW3110**

1.0 EXECUTIVE SUMMARY

NOTICE: THE EXECUTIVE SUMMARY IS PROVIDED SOLELY FOR PURPOSES OF OVERVIEW. ANY PARTY WHO RELIES ON THIS REPORT MUST READ THE FULL REPORT. THE EXECUTIVE SUMMARY OMITTS A NUMBER OF DETAILS, ANY ONE OF WHICH COULD BE CRUCIAL TO THE PROPER APPLICATION OF THIS REPORT.

The All Star Cleaners occupied a one-story, concrete block building at the northwestern corner of Northeast 65th Street with Brooklyn Avenue Northeast in the Ravenna District in Seattle. The Vicinity Map, attached as Plate 1, illustrates the location of the subject property. The general layout of the property is illustrated on the Site Map, Plate 2.

We completed a Limited Phase 2 Environmental Site Assessment in June 2015. To assess the condition of soil at the subject property, we drilled six borings, B1E through B6E. Borings B1E and B2E were drilled inside the concrete block building near the dry-cleaning machine and reported clothes pre-treatment spotting area. The dry-cleaning machine and spotting treatment area were located near the southwest corner of the building. Borings B3E through B6E were drilled exterior to the building as close as practicable to the sewer lines. No groundwater was encountered during drilling of any of the six borings to a maximum explored depth of 12-feet below existing ground surface. Two layers of asphalt were identified near the central portion of the subject property.

Soil samples collected for volatile organic compound (VOC) analysis were collected following EPA Method 5035. Selected soil samples were transferred from the sampler directly into sterilized 40-ml VOAs and glass jars with Teflon-sealed lids furnished by the project laboratory. The sampler was washed with a detergent solution and rinsed between borings to avoid the possibility of cross-contamination.

Three of the 14 samples submitted for analysis did not have concentrations of PCE above the practical quantitation limit of 0.0010 mg/Kg. All three samples were from the interior borings. The detected concentrations of PCE in nine samples submitted for analysis were above the method detection level but below current cleanup levels. Two of the samples submitted from immediately below the lowest asphalt layer had concentrations exceeding the Method A cleanup level for unrestricted land use. **No** common products formed by breakdown of PCE including trichloroethene (TCE); 1,1-Dichloroethene (1,1- DCE); (trans) 1,2-Dichloroethene (trans 1,2-DCE); (cis) 1,2-Dichloroethene (cis 1,2-DCE); or vinyl chloride (VC) were detected in any of the 14 samples submitted for analysis. Based upon this initial laboratory analysis it appeared that PCE was the only contaminant of concern (COC).

Following demolition of the dry cleaners building and house and prior to installation of soldier piles and excavation of the site for below grade storage, we observed excavation of 15 test pits and submitted select soil samples from the test pits for analysis. Our previously completed Phase 2 sampling and analysis identified two sample localities with PCE concentrations exceeding applicable Method A soil cleanup levels. To better define the areal extent of soil contamination and to collect samples beneath the sewer lines we observed excavation of 15 test pits, TP1 through TP15. Test pits TP1 through TP7 and TP14 were excavated in the footprints of the former All Star Cleaners

building and house. Test pits TP8 through TP13 and TP15 were excavated exterior to the footprint of the former All Star Cleaners building and house. During excavation of the exterior test pits several sections of the sewer lines were encountered and removed. The maximum explored depth was approximately 10 feet below existing grade at TP14. No groundwater was encountered during excavation of the test pits. The test pit locations were chosen based upon previously completed sampling and analysis and access to sewer lines and likely areas where improper disposal could have occurred.

During excavation of the test pits, we observed that two layers of asphalt existed near test pit locations TP8, TP9, TP10 and TP11. The lower layer exhibited some evidence of erosion of the asphalt binder near TP11 suggesting PCE containing solutions may have been improperly disposed on the parking lot surface prior to repaving. One of the 38 samples submitted for analysis from immediately below the lowest asphalt layer from TP 11 had concentrations of PCE exceeding the Method A cleanup level for unrestricted land use. Thirteen samples had concentrations of PCE below the practical quantitation limit (PQL) of 0.0010 mg/kg. The detected concentrations of PCE in 24 samples submitted for analysis were above the PQL but below current the Method A cleanup level. **No** common products formed by breakdown of PCE including TCE; 1,1- DCE; trans 1,2-DCE; (cis) 1,2-DCE; or vinyl chloride (VC) were detected in any of the 38 samples submitted for analysis. It is our opinion that the absence of breakdown products may indicate a more recent release, or the soil conditions are not favorable for biologic breakdown of PCE.

The results of the laboratory analyses suggested that the soil immediately beneath the asphalt near test pit location TP11 and previously analyzed borings B3E and B5E appeared to be contaminated with PCE above current the Method A cleanup level for unrestricted land use. None of the samples that were above the Method A cleanup level were from deeper than approximately 6-inches below the existing asphalt parking lot. Detectable concentrations of PCE were identified in 13 of the 15 test pits at levels that were below the Method A cleanup level. Unfortunately, there did not appear to be a consistent trend in concentrations appearing to attenuate with depth. Based upon the supplemental sampling and analysis it did not appear that the contamination originated from the vicinity of the former dry-cleaning machine and spotting area or from the leaks in the sanitary sewer lines that served the All Star Dry Cleaners or the former house. Due to the generally very low concentrations of PCE reported in the laboratory analysis, it appears that the most likely conceptual site model (CSM) was due to improper disposal of PCE contaminated water directly upon the asphalt paved parking lot then infiltration into the subgrade.

We observed drilling of a seven of the 36 shafts for the soldier piles used to support the temporary shoring walls needed to excavate the site for below grade parking. The shafts for the soldier piles were drilled to a maximum depth of approximately 30 feet below existing grade. No groundwater was observed in any of the seven auger drilled shafts for the soldier piles we observed. Eleven soil samples were collected from the seven of the auger-drilled shafts during installation of the soldier piles. The samples were collected from the tip of the auger at depths that ranged from approximately 4- to 30-feet below the existing ground surface. Analysis of these soil samples revealed four samples had concentrations of PCE below the PQL of 0.0010 mg/Kg. The detected concentrations of PCE in seven of the 11 samples submitted for analysis were above PQL but below current cleanup level. No samples had concentrations of PCE greater than Method A cleanup level for PCE. **No** common products formed by breakdown of PCE including TCE; 1,1- DCE; (trans) 1,2-DCE; (cis) 1,2-DCE; or vinyl chloride (VC) were detected in any of the 11 samples submitted for analysis.

We did not observe evidence of groundwater in any of the seven shafts drilled for the soldier piles to as much as 30 feet below existing ground surface. A geotechnical report prepared for redevelopment of the adjoining northern property reportedly drilled eight borings to a maximum explored depth of 40.5-feet below existing ground surface and no groundwater was reported in any of the eight borings.

We conducted a review of borings drilled in the immediate vicinity of the site using resources of the Washington Department of Ecology Water Well database. Three wells were drilled at a site located approximately 500 feet east of the subject property in 2016. The depths of the borings reportedly ranged between 61 to 71 feet below existing ground surface. No groundwater was reportedly encountered in any of the three borings. A monitoring well installed at the Sound Transit Roosevelt Station reportedly was dry to approximately 100-feet below existing ground surface. The static water level was reportedly 95-feet below existing ground surface. Except for the three samples collected immediately beneath the asphalt pavement, the remaining 60 samples analyzed had concentrations of PCE less than the concentration reportedly protective of groundwater of 0.0499 mg/Kg. Based upon these findings, it appears that groundwater is not a potential receptor or conduit of PCE released to soil at the site.

Based upon the nature and extent of the impacts that appear to be limited to asphalt and soil in the upper 12 inches at three sample locations at two distinct localities on the subject property, it appears that vapor pathway is incomplete.

Based upon the sampling and analysis completed to date, and the redevelopment of the subject property that involved removal of soil for below grade foundations and storage areas, soil removal and disposal was the selected remedial alternative.

2.0 INTRODUCTION

This report presents the findings of a Remedial Investigation and Feasibility Study (RI/FS) conducted by Geotech Consultants, Incorporated (Geotech) at the former All Star Cleaners property, located at 1222 Northeast 65th Street, in Seattle Washington, (Site). The purpose of this report is to document the completion of the RI and provide support for the remedial action proposed in the FS. The scope of work for this investigation was developed based on our professional judgment and experience in accordance with requirements in the Washington State Department of Ecology (WDOE) Model Toxics Control Act (MTCA) Cleanup Regulations (Chapter 173-340 WAC). The goal of this report is to obtain a determination of no further action (NFA) under the WDOE's Voluntary Cleanup Program (VCP).

2.1 General Site Information

The rectangular-shaped site is located on the northwestern corner of the intersection of Northeast 65th Street with Brooklyn Avenue Northeast in the Ravenna District in Seattle, Washington. The Vicinity Map, Plate 1, illustrates the general location of the site. Land use in the surrounding area is characterized by a mix of office and restaurant buildings and more recently constructed apartment buildings.

The subject property is comprised of a single tax parcel that covers approximately 5,449-square feet (0.13-acre). The King County Assessor's Office documents indicate that the tax parcel is situated in the southeast quarter of Section 5, Township 25 North, Range 4 East, Willamette Meridian, in King County, Washington. The tax identification number, as recorded by the King County Assessor's Office, is 052504-9044. The City of Seattle zoning is reportedly Neighborhood Commercial NC2P-65.

The brief legal description, as reported by the King County Assessor's Office is:

POR OF SE 1/4 OF SE 1/4 SEC 05-25-04 DAF - BAAP 625.65 FT M/L W & 36.35 FT N OF SE COR SD SEC 5 WCH PT IS NXN OF N LN OF E 65TH ST & W LN OF BROOKLYN AVE TH ALG SD W LN BROOKLYN AVE 102 FT TH W TO E LN BLK 10 JAMES DIVISION OF GREEN LAKE ADD TH S ALG SD E LN SD BLK 10 DIST 102 FT TO N LN E 65TH ST TH E ALG N N OF E 65TH ST TO POB.

2.2 Site History

We completed a Phase 1 Environmental Site Assessment in April 1997. At the time of our 1997 Phase 1 Site Assessment, we reported the following information:

1. The property was developed with a single-family residence that was built in 1926 and a commercial structure that was built in 1961. Our historical research indicated that the commercial structure has always been occupied by a dry-cleaning business.
2. The commercial building was of concrete block construction with a flat, built-up roof and a concrete foundation. The interior of the building had carpet and concrete flooring, concrete block walls and plasterboard ceilings. We observed fluorescent lighting throughout the building.
3. The residence was used as a rental unit. The commercial building was occupied by All Star Cleaners. According to an employee, all of the dry-cleaning chemicals were contained within machines that were serviced by Safety Kleen. We observed good housekeeping practices on the site during our reconnaissance.
4. The dry-cleaning machine was located above a spill containment tray. The dry-cleaning machine stored solvent Tetrachloroethene (aka perchloroethene, PCE) in the base of the unit. The unit filtered the solvent for reuse and had a built-in spill containment barrier.

Information on file at the Puget Sound Branch of the Washington State Archives indicated that the property was originally developed in 1926 with the house that was standing on the northern portion of the subject property. The first property owner was J.N. MacNagie, who then sold the property to H.D. Lawson in 1958. I.J. Halfon (trustee) acquired the site in 1971. The dry-cleaning building was constructed on the southern half of the property in 1961. Additional information obtained from the Archives suggests the property to the north was undeveloped prior to the current construction. The property to the west was first occupied by a house in 1904, and a second house was constructed on that property in 1921. The first house was removed in 1958, and the second house was removed by 1961.

The approximate southern half of the site was developed with a one-story concrete block building reportedly built in 1961. The All Star Cleaners occupied the concrete block building, addressed as 1222 Northeast 65th Street and was attached to the south side of the house. Inside the main portion of the cleaners, the concrete floor was exposed or covered with carpet or vinyl covering. The dry-cleaning equipment was located near the southwestern corner of the building. We did not observe obvious stains on the concrete floor near the location of the dry-cleaning machine. During our reconnaissance completed on May 15, 2015 in advance of our field work, we observed the asphalt paving near the east and south sides of the All Star Cleaners for signs of improper disposal of PCE such as pitting or erosion of the asphalt and the vegetation for indications of stress. We did not

observe significant signs of eroded asphalt or near the catch basin located in the parking lot southeast of the building.

During our site reconnaissance completed on May 15, 2015, the operator of the All Star Cleaners said that he acquired the business approximately seven years prior. He informed us that to the best of his knowledge the dry-cleaning machine had been in its current location as long as he had-operated the business. He reported that garments were spot treated near the south side of the dry-cleaning machine. The business had a self-contained dry-cleaning machine, which rested inside a steel pan that provided secondary containment. A utility room at the rear of the suite contained a gas-fired boiler. We did not observe any obvious evidence, such as stains, spills, or leaks around the dry-cleaning machine.

2.2 Current Site Use

The subject property is being redeveloped for The Brooklyn, a six-story mixed-use building with basement storage. The redevelopment was completed under City of Seattle and King County permits. Apparently, no permits or violations existed relating to the All Star Cleaners.

3.0 FIELD INVESTIGATIONS

3.1 Site Characterization

We completed a Limited Phase 2 Environmental Site Assessment in June 2015. A private utility locate was completed prior to drilling to locate sewer lines, and water lines. The sewer lines were located using a transmitter attached to a snake and a receiver placed above the asphalt paving. The approximate sewer line locations were painted on the asphalt surface as a guide for later sampling. The as-built sewer line located using geophysical equipment was significantly different than that shown on the survey plans for the site. To assess the condition of soil at the subject property, we drilled six borings, B1E through B6E. Borings B1E and B2E were drilled inside the concrete block building near the dry-cleaning machine and reported clothes pre-treatment spotting area. The dry-cleaning machine and spotting treatment area were located near the southwest corner of the building. Borings B3E through B6E were drilled exterior to the building as close as practicable to the marked locations of the sewer lines. These sample locations were chosen based upon the proximity to the dry-cleaning machine, the reported location of the clothes spotting area, and locations of sewer lines that may have been avenues of leakage into the subsurface. Boring locations are illustrated on Plate 2, Phase 2 Exploration Map. A portion of each sample was subjected to head space analysis using a Mini Rae 3000 Photoionization Device (PID) to assess potential organic vapor concentrations in soils.

We collected a sample of soil from immediately beneath the concrete flooring for analysis from the interior borings and one additional sample was collected from the deepest penetration of the boring or where organic vapors were detected. The samples were selected based upon the presence of obvious odors or obvious stratigraphic changes that may affect vertical migration. The soil samples selected for analysis were analyzed for halogenated volatile organic compounds (HVOCs) typically associated with the dry-cleaning industry.

OnSite Environmental, Incorporated in Redmond, Washington conducted soil analyses on selected samples. Quantification analysis of selected soil samples from all six environmental borings B1E through B6E revealed detectable concentrations of Tetrachloroethene (PCE) in all six borings. Three of the 14 samples submitted for analysis did not have concentrations of PCE above the stated PQL of 0.0010 mg/Kg. All three samples were from the interior borings. Nine samples submitted for

analysis had detected concentrations of PCE above the method detection level but below current cleanup level of 0.05 mg/Kg. Two of the samples submitted from immediately below the lowest asphalt layer exterior to the building had concentrations of PCE exceeding the Method A cleanup level for unrestricted land use. **No** common products formed by breakdown of PCE including TCE; 1,1- DCE; trans 1,2-DCE; (cis) 1,2-DCE; or VC were detected above the stated method detection level of 0.0010 mg/Kg in any of the 14 samples submitted for analysis. Soil samples collected for volatile organic compound (VOC) analysis were collected following EPA Method 5035. Selected soil samples were transferred from the sampler directly into sterilized 40-ml VOAs and 4-oz glass jars with Teflon-sealed lids furnished by the project laboratory. The sampler was washed with a detergent solution and rinsed between borings to avoid the possibility of cross-contamination.

The aforementioned information is contained in our *Limited Phase 2 Site Assessment, All Star Cleaners, 1222 Northeast 65th Street*, dated June 25, 2015. This report was provided to the WDOE as part of the VCP submission.

3.2 Field Investigations

To further assess the condition of soil at the subject property following demolition of the buildings, we observed excavation of 15 test pits, TP1 through TP15 in April 2017. Test pits TP1 through TP7 and TP14 were excavated in the footprints of the former dry-cleaning building and house. Test pits TP8 through TP13 and TP15 were excavated exterior to the footprint of the former dry-cleaning building and removed sections of sewer lines while excavating. The sewer line was composed of concrete bell and tube pipe. The test pit locations are shown on Plate 3, Test Pit Location Map. Test pits TP1 through TP5 were excavated on April 20, 2017, test pits TP6 through TP13 were excavated on April 24, 2017 and test pits TP14 and TP15 were excavated on April 27, 2017. A track hoe operated by Ryatt Excavating was used to dig the test pits. The maximum explored depth was approximately 10 feet below existing grade at TP14. The test pit locations were chosen based upon previously completed sampling and analysis and access to sewer lines and likely areas where improper disposal could occur. The locations of the test pits we observed and sampled are shown on Plate 3, Test Pit Location Map.

Discrete soil sample locations were chosen based upon the proximity to the locations of sewer lines that may have been avenues of leakage into the subsurface and/or stratigraphic changes from fill soil to denser, finer-grained native glacial till. A portion of each sample was subjected to head space analysis using a Mini Rae 3000 Photoionization Device (PID) to assess potential organic vapor concentrations in soils.

At test pit locations TP8, TP9, TP10 and TP11 we observed two layers of asphalt separated by approximately 1-inch of gravel. In test pit TP11, the asphalt in the lower layer exhibited softening, possibly from dry cleaning solvents dissolving the asphalt binder from the aggregate. We noted higher organic vapors as measured using the PID in this layer.

In general, the soil layers were comparatively uniform among the sample locations. The upper soil layer consisted of dark brown to grayish brown, silty sand with gravel. Designated as fill, this material varied in thickness from approximately a one foot to approximately six and one-half feet. The fill was underlain by brownish gray, silty sand with gravel in all of the test pits to a maximum explored depth of 10-feet at TP14. The native deposits became very dense at approximately eight feet below existing ground surface.

The fill and native silty sand soil were predominantly moist to damp. No groundwater was observed in any of the 15 test pits that were completed to as much as 10 feet below existing grade.

To supplement our understanding of the distribution of low levels of PCE in the subsurface and assess for the presence of groundwater, we observed drilling of seven of the 36 shafts for the soldier piles used to support the temporary shoring walls needed to excavate the site for foundations for the below grade storage area. The shafts for the soldier piles were drilled to a maximum depth of approximately 30 feet below existing grade. Versatile Drilling completed drilling of the 36-inch diameter soldier piles and installation of the temporary shoring wall. Soldier pile 8 was drilled on July 17, 2017, soldier piles 17 and 19 were drilled on July 18, 2017, soldier piles 30, 32, and 33 were drilled on July 19, 2017 and soldier pile 1 was drilled on July 24, 2017. We were not the geotechnical engineer of record, so we were not there to observe drilling of every soldier pile. The locations of the soldier piles we observed and sampled are shown on Plate 4, Soldier Pile Location Map.

No perched groundwater was observed in any of the seven drilled soldier pile shafts we sampled which were drilled to as much as approximately 30 feet below existing ground surface.

3.3 Analytical Results

During test pit excavation we collected a sample of soil from immediately beneath the former concrete flooring for analysis from the test pits excavated in the footprint of the former dry cleaner building. Additional samples were collected from the approximately two- and four-feet below the existing ground surface along the western property line. Samples from the exterior test pits were collected from immediately below the asphalt, the depth close to the bottom of the sewer lines, the stratigraphic change from fill soil to native glacial till soil, or the deepest reach of the track-hoe. The selected soil samples were transferred from the center of the track-hoe bucket directly into sterilized 4-ounce glass jars with Teflon-sealed lids and 40-ml VOAs glass jars furnished by the project laboratory. Soil samples collected for volatile organic compound (VOC) analysis were collected following EPA Method 5035. The soil at each sample depth was subjected to head space analysis using a Mini Rae 3000 Photoionization Device (PID) to assess potential organic vapor concentrations in soils.

Soil samples that were collected from the soldier pile borings were selected based upon the presence of moist zones or obvious stratigraphic changes that may affect vertical migration. The depths of the samples were reported by the Versatile drilling operator. These samples were collected from the auger drill as it was withdrawn from the shaft. Soil samples collected for volatile organic compound (VOC) analysis were collected following EPA Method 5035. The soil at each sample depth was subjected to head space analysis using a Mini Rae 3000 Photoionization Device (PID) to assess potential organic vapor concentrations in soils.

The samples were stored in an iced chest at the site and taken to the laboratory in the chest. Each jar was labeled as to test pit or soldier pile number, sample depth, and field personnel. EPA-recommended sample management protocol, including the maintenance of chain-of-custody documentation.

Laboratory analysis were completed by OnSite Environmental, a WDOE accredited laboratory. The samples were analyzed for halogenated volatile organic compounds (HVOCs) typically associated with the dry-cleaning industry using EPA Method 8260C.

The complete laboratory reports and chain-of-custody documents are presented in Appendix A, Laboratory Reports.

The analytical approach was intended to provide a basis for comparing the site environment to existing standards offered in the Model Toxics Control Act (MTCA), Chapter 173-340, Washington Administrative Code.

Analytical results of all soil samples collected from the Site to date are summarized in Table 1, Table 2, and Table 3 HVOC Soil Analytical Results. The distribution of soil concentrations in excess of the MTCA Method A cleanup level is illustrated on Plate 5, Phase 2 & Test Pit Results Map, and in cross section on Plate 7, Geologic Cross Section West to East. Plate 6, shows the soil sample results from samples obtained during drilling of the soldier pile shafts.

As only three of the samples obtained during our initial Phase 2 assessment and the supplemental test pit sampling had concentrations of PCE greater than the Method A cleanup level and were limited to less than 6-inches in depth it is our opinion that the PCE-contaminated soil was not likely to result in soil gas concentrations that could affect indoor air quality or contribute to contamination of groundwater.

4.0 CONCEPTUAL SITE MODEL

This section provides a conceptual understanding of the Site, derived from the results of the subsurface investigations performed at the Site. The conceptual site model (CSM) is dynamic and may be refined as additional information becomes available.

4.1 Contaminants of Concern and Affected Media

The primary conceptual release model for the Site are localized improper disposal of PCE-contaminated wash water on the surface of the asphalt parking lot exterior to the building. The COC at the Site consist of only PCE and were limited to Site asphalt paving and soil at three locations. The distribution of soil concentrations in excess of the MTCA Method A cleanup level is illustrated on Plate 3, Phase 2 & Test Pit Results Map, and in cross section on Plate 7, Geologic Cross Section.

Geotech believes the Site has been sufficiently characterized to be able to establish cleanup standards and select a cleanup action for the Site. The remedial action presented in the accompanying FS contemplates contamination in both accessible and inaccessible areas of the Site.

4.2 Site Geology

The site is located on a gently rolling, elevated drift plain in the Puget Sound Lowland geomorphic province. The Puget Sound Lowland is a basin lying between the Cascade Mountains to the east and the Olympic Mountains to the west and is covered mainly by glacially deposited sediments. The plain was formed during the last period of continental glaciation that ended approximately 13,500 years ago. More specifically, the site lies on the North Seattle Drift Upland, an upland area that generally trends north-south. The site is located at an approximate elevation of approximately 225 feet above sea level near the northeastern corner of the site and descends to approximately 220 feet above sea level near the southwestern corner of the property. The ground surface generally descends toward the west-southwest.

A United States Geological Survey *Preliminary Geologic Map of Seattle and Vicinity* shows the subject property located in an area mapped as "Qvt," which is referred to as Vashon glacial till. Till is described as a non-sorted, non-stratified mixture of clay, silt, sand, and gravel up to boulder-size. Glacial till was deposited as the basal (bottom) layer of soil beneath the southward advancing Vashon-age ice sheet, which reached its maximum extent about 14,000 years ago. As the nearly 3,000-foot-high glacier advanced southward, it compressed the underlying basal soils to a dense to very dense condition, as encountered at this site. Over thousands of years, the upper surface has weathered to a loose to medium dense condition.

The environmental borings were drilled on June 4 and June 15, 2015. Geoprobe sampling equipment was provided and operated by Holocene Drilling. Borings B1E and B2E were drilled inside the building using a hand operated, jack-hammer driven Geoprobe sampling system. A truck-mounted AMS Powerprobe sampler was used to complete borings B3E through B6E. The soil was continuously sampled from the surface to a maximum depth of approximately 12 feet below the ground surface in boring B3E. The boring locations are illustrated on the Phase 2 Exploration Map, Plate 2.

Concrete covered the ground surface inside the building and asphalt covered the ground surface exterior to east and south of the building. At boring locations B5E and B6E we observed two layers of asphalt separated by approximately one-inch of gravel. In boring B5E, the asphalt in the lower layer exhibited softening, possibly from dry cleaning solvents dissolving the asphalt from the aggregate. We noted higher organic vapors as measured using the PID in this layer.

In general, the soil layers were comparatively uniform among the sample locations. The upper soil layer consisted of dark brown to grayish brown, silty sand with gravel. Designated as fill, this material varied in thickness from approximately one foot in boring B3E to approximately six and one-half feet in boring B4E. The fill was underlain by brownish gray, silty sand with gravel in all of the borings. We observed brownish gray sand in two of the exterior borings. The native deposits became very dense and prevented penetration with the heavy duty AMS Powerprobe drilling equipment below a maximum depth of approximately 12 feet below existing grade in boring B3E. The maximum explored depth using the hand operated jackhammer in borings B1E and B2E was four feet. An interpretive cross-section appears on Plate 7, Cross Section.

The geologic unit that we assume characterizes the subject site is relatively impermeable; however, localized layers of more permeable sand may occur. Based upon local drainage patterns and upon our review of a U.S. Geological Survey map of the area, it is likely that the flow of surface or shallow-seated subsurface, water across the property would be toward the east-northeast. The extent to which underground utility trenches, filling, and excavating in the area may have affected groundwater flow is not known. According to a U.S. EPA Ground Water Handbook, water tables typically conform to surface topography (Chapter 4, page 78).

We did not observe evidence of groundwater in any of the seven shafts drilled for the soldier piles to as much as 30 feet below existing ground surface. A geotechnical report prepared for redevelopment of the adjoining northern property reportedly drilled eight borings to a maximum explored depth of 40.5-feet below existing ground surface and no groundwater was reported in any of the eight borings. We conducted a review of borings drilled in the immediate vicinity of the site using resources of the Washington Department of Ecology Water Well database. Three wells were drilled at a site located approximately 500 feet east of the subject property in 2016. The depths of the borings reportedly ranged between 61 to 71 feet below existing ground surface. No groundwater was reportedly encountered in any of the three borings. A monitoring well installed at the Sound Transit Roosevelt Station reportedly was dry to approximately 100-feet below existing ground surface during drilling. The static water level was reportedly 95-feet below existing ground surface. Except for the three samples collected immediately beneath the asphalt pavement, the remaining 60 samples analyzed had concentrations of PCE less than the concentration reportedly protective of groundwater of 0.0499 mg/Kg. Based upon these findings, it appears that groundwater is not a potential receptor or conduit of PCE released to soil at the site. Copies of the boring logs referenced in this section are included as Appendix B. The approximate locations of the wells referenced appear on Plate 8, Referenced Borings Aerial Map.

4.3 Environmental Fate of PCE in the Subsurface

Tetrachloroethene is generally not readily biodegraded in the subsurface by naturally occurring aerobic bacteria. Anaerobic biodegradation does occur naturally, but generally anaerobic conditions do not occur in the vadose zone soil at this Site, it appears that ongoing anaerobic biodegradation is not reducing contaminant concentrations as we did not observe breakdown products typically associated with degradation of PCE in any of the 63 samples submitted for analysis. Groundwater was not found in any of the probe borings, test pit excavations, or drilled soldier pile shafts drilled on the subject property to approximately 30 feet below existing ground surface or in borings drilled on the adjoining northern property to as much as 40.5 feet below existing ground surface or properties in the immediate vicinity of the subject that were drilled to as much as 71 feet below existing ground surface. Groundwater was reportedly found in a property to west of the subject property at approximately 95-feet below existing ground surface.

4.4 Potential Exposure Pathways

Potentially complete soil exposure pathways at the Site include:

- Contact (dermal contact, incidental ingestion) with hazardous substances in soil by workers (including excavation workers). Direct ingestion of, or dermal contact with, soil containing TPH is considered a potential exposure pathway. Impacted areas are currently covered by asphalt and landscaped areas, and unless disturbed, are not available for potential direct contact or ingestion. Contaminated soil impacts have been documented at three sample locations approximately 6- to 12-inches below the asphalt paving.

Potentially incomplete exposure pathways at the Site include:

- Groundwater Leaching Pathway. The groundwater leaching pathway is considered incomplete at this Site as except for three samples collected immediately beneath the asphalt paving, all of the samples had reported concentrations of PCE less than the Method A

cleanup level of 0.05 mg/Kg. Drinking water is supplied to the building by the City of Seattle. No drinking water wells are located within approximately one-mile radius of the subject property

- Inhalation of hazardous substances in soil vapor by workers (including excavation workers). Very low to non-detectable concentrations of VOCs as measured by a PID were observed in all but three samples that were collected from approximately 6- to 12-inches below the asphalt paving. Ambient indoor air sampling has not been conducted as part of this RI as it appears that migration of vapors through the unsaturated soil to the surface, both indoors and outdoors, is considered an incomplete potential exposure pathway at the Site.

Terrestrial Ecological Evaluation Exclusion from further evaluation is appropriate for this Site for the following reasons:

- Barriers to Exposure: WAC 173-340-7491(1)(b): All contaminated soil, is or will be, covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and will be removed during excavation for the building's foundation and basement storage area.
- Undeveloped Land: WAC 173-340-7491(1)(c): There is less than 1.5 acres of contiguous undeveloped land on or within 500 feet of any area of the Site. The Terrestrial Ecological Evaluation Form is included in Appendix C.

5.0 CLEANUP STANDARDS

The following sections identify applicable or relevant and appropriate requirements (ARARs), remedial action objectives (RAOs), and preliminary cleanup standards for the Site, which were developed to address Ecology's requirements for cleanup. These requirements address conditions relative to potential identified impacts. Together, ARARs, RAOs, and cleanup standards provide the framework for evaluating remedial alternatives.

5.1 Potential Applicable Laws

All cleanup actions conducted under MTCA shall comply with applicable state and federal laws [WAC 173-340-710(1)]. MTCA defines applicable state and federal laws to include legally applicable requirements and those requirements that are relevant and appropriate. Collectively, these requirements are referred to as ARARs. The primary ARAR is the MTCA regulation (WAC 173-340), especially with regard to the development of cleanup levels and procedures for development and implementation of a cleanup under MTCA. ARARs for the Site cleanup also include the following:

- Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs; 40 CFR Part 141).
- Washington Clean Air Act (Chapter 70.94 RCW).
- Puget Sound Clean Air Agency (PSCAA), Regulation I.
- Washington Solid and Hazardous Waste Management (RCW 70.105); Chapter 173-303 WAC; 40 CFR 241, 257; Chapter 173-350 and 173-351 WAC) and Land Disposal Restrictions (40 CFR 268; WAC 173-303-340).

- Washington Industrial Safety and Health Act (RCW 49.17) and other Federal Occupational Safety and Health Act (29 CFR 1910, 1926).

Federal MCLs are minimum requirements for drinking water. MTCA Method A cleanup levels for groundwater are set at least as low as federal MCLs. State and federal groundwater and air quality criteria are considered in the development of cleanup levels. State dangerous waste regulations may be applicable to contaminated soil removed from the Site.

5.2 Remedial Action Objectives

RAOs have been established for the Site to establish remedial alternatives protective of human health and the environment under the MTCA cleanup process (WAC 173-340-350). The primary RAO for this cleanup action focuses on substantially eliminating, reducing, and controlling unacceptable risks to human health and the environment posed by the COCs, to the greatest extent practicable.

RAOs are important for the evaluation of the general response actions, technologies, process options, and cleanup action alternatives. Based on the assessment of Site-specific conditions and the potentially applicable cleanup levels presented below, the RAOs for the Site have been established as follows:

- In a reasonable restoration time frame, reduce concentrations of COCs in Site soils to levels protective of human health and the environment and which are protective of groundwater quality.

5.3 Cleanup Standards

Cleanup standards include cleanup levels and points of compliance (POCs) as described in WAC 173-340-700 through WAC 173-340-760. Cleanup standards must also incorporate other state and federal regulatory requirements applicable.

Considering the reported previous use as a dry cleaner, and analysis completed to date, we identified the COC in soil as tetrachloroethene (PCE). The cleanup level for the COC is published in Table 740-1 *Method A Soil Cleanup Levels for Unrestricted Land Uses*.

The following table presents the contaminant of concern and applicable cleanup level.

Compound	Soil Method A ¹
Tetrachloroethene	0.05 mg/Kg ⁴

Notes:

1. Method A Soil Cleanup Levels for Unrestricted Land Use: MTCA Table 740-1.
2. Mg/Kg denoted milligrams per kilogram

5.4 Points of Compliance

For this Site, it is assumed that standard points of compliance will be used.

- Soil – Direct Contact: For soil cleanup levels based on human exposure via direct contact, the point of compliance is throughout the Site from the ground surface to 15 feet below ground surface.
- Soil – Leaching: For soil cleanup levels based on protection of groundwater, the point of compliance is throughout the Site.
- Soil – Soil Gas: For soil cleanup levels based on unwanted transmission of organic compounds into indoor air, the point of compliance is throughout the Site.

6.0 IDENTIFICATION, ASSESSMENT, and SELECTION of REMEDIAL ALTERNATIVE

This section identifies general response actions and selects a remediation technology for use at the site.

6.1 General Response Actions

General response actions are broad categories of remedial actions that can be combined to meet the RAOs for a site. The following are typical general response actions that are applicable to most impacted sites:

- No action
- Institutional controls
- Containment
- Removal
- Ex-situ treatment
- In-situ treatment

Potentially applicable technologies associated with these general response actions have been identified and assessed based on the Site COC and affected media and take into consideration the current and future use of the property. Based upon the information developed to date which includes redevelopment of the site requiring removal of soil for below grade foundations for storage, removal and disposal of the contaminated soil at an approved facility is the recommended remedial action.

6.2 Identification and Assessment of Implementable Technology

Applicable technologies associated with general response actions have been identified and assessed for potential inclusion in the remediation alternatives for the Site. Each identified technology was assessed based on applicability to Site conditions, overall effectiveness, applicability, and relative cost. Potentially applicable technologies considered for the Site are presented in the preceding section, General Response Actions. The technology determined to be most appropriate for the Site is summarized in the following section.

6.3 Targeted Soil Removal

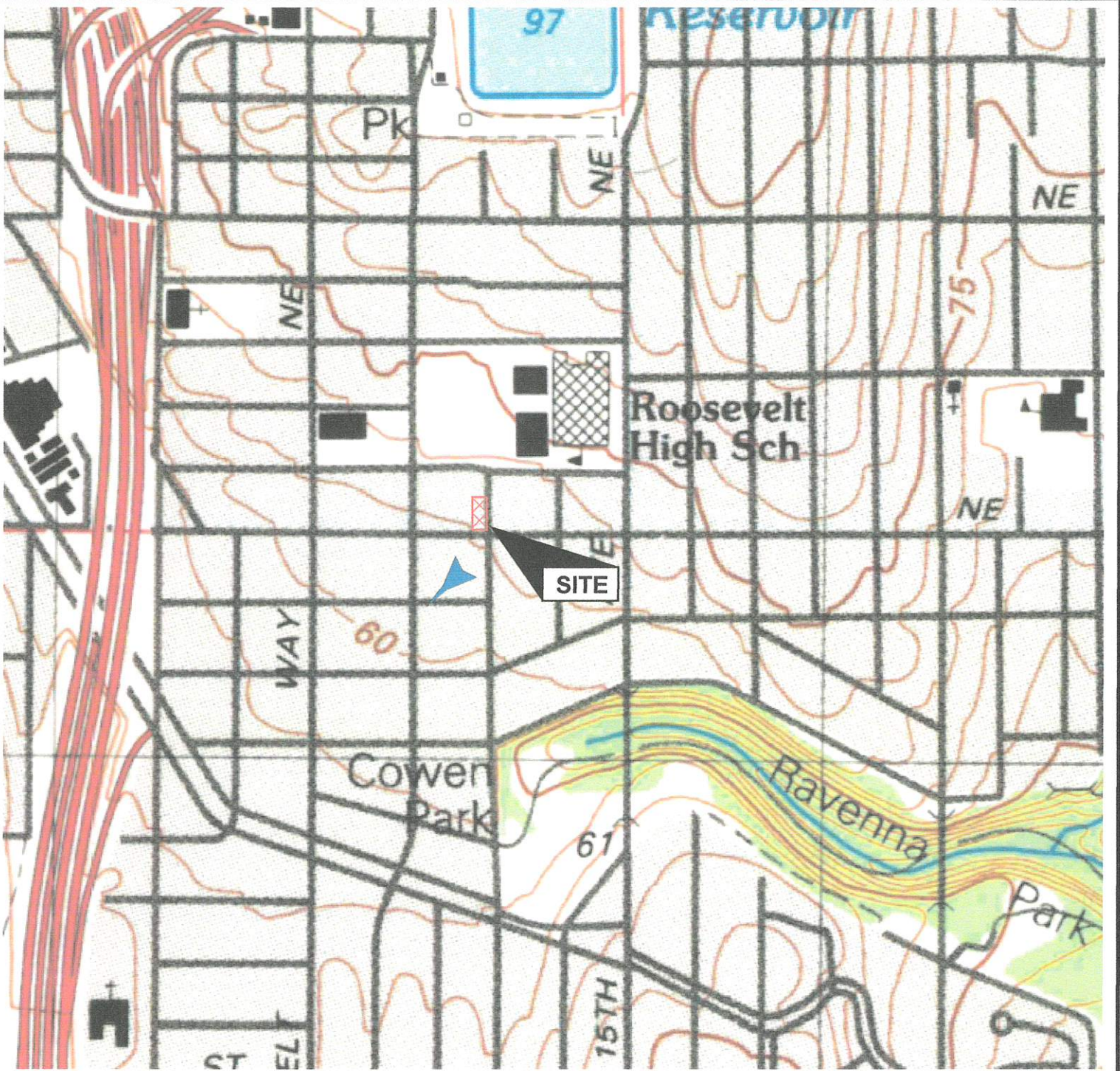
Based upon redevelopment of the site requiring removal of soil for below grade foundations for storage, targeted excavation of contaminated soil and asphalt paving at the Site appears to be an effective method of reducing the PCE-contaminated soil and asphalt on the property. Excavated PCE-contaminated soil and asphalt would be transported for disposal at an appropriate disposal facility. Confirmation sampling and analysis would be required to show that the PCE-contaminated soil and asphalt has been successfully removed.

7.0 LIMITATIONS

This report has been prepared for specific application to this project in a manner consistent with that level of care and skill normally exercised by members of the environmental science profession currently practicing under similar conditions in the area, and in accordance with the terms and conditions set forth in our revised proposal dated May 15, 2015 and our supplemental proposal of November 15, 2016. This report is for the exclusive use of Blueprint Capital Services, LLC and their representatives, for specific application to this site. No warranty is expressed or implied. If new information is developed in future site work, which may include excavations, borings, or studies, Geotech Consultants, Inc. should be allowed to re-evaluate the conclusions of this report and provide amendments as required.

8.0 REFERENCES

- Bulletin of the Association of Engineering Geologists. Geology of Seattle Washington, United States of America. Volume XXVIII, Number 3, August 1991.
- Geotech Consultants, Inc. *Phase 1 Environmental Site Assessment, 1222 Northeast 65th Street, Seattle, Washington.* April 4, 1997.
- Geotech Consultants, Inc. *Limited Phase 2 Environmental Site Assessment, 1222 Northeast 65th Street, Seattle, Washington.* June 25, 2015
- Office of Research and Development, U.S. EPA. *U.S. EPA Ground Water Handbook - Volume 1: Ground Water and Contamination.* EPA/625/6-90/016a. September 1990.
- U.S. Geological Survey, *Seattle North, Washington 1:24,000 Quadrangle.* 1 sheet. 1949, photorevised 1968 and 1973.
- U.S. Geological Survey. *Geologic Map of the Seattle, Washington, Open File Report 2005 1252.* 2005.
- Waldron, H.H., Liesch, B.A., Mullineaux, D.R., and Crandell, D.R., 1962, *Preliminary Geologic Map of Seattle and Vicinity, Washington.* Miscellaneous Geologic Investigations Map No. I-354.
- Washington Department of Ecology. *Cleanup Levels and Risk Calculations Under the Model Toxics Control Act Cleanup Regulation CLARC Version 3.0.* Publication 94-145. May 2014.
- Washington Department of Ecology. *Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action, Publication no. 09-09-047.* October 2009.
- Washington Department of Ecology. *Model Toxics Control Act Cleanup Regulation Chapter 173-340 WAC.* Publication 94-06. Revised November 2013.



LEGEND:

CONTOUR INTERVAL 5 METERS



PROBABLE DIRECTION OF REGIONAL SHALLOW GROUNDWATER FLOW



(Source: U.S. Geologic 1994 Digital Survey Map Seattle North, Washington)



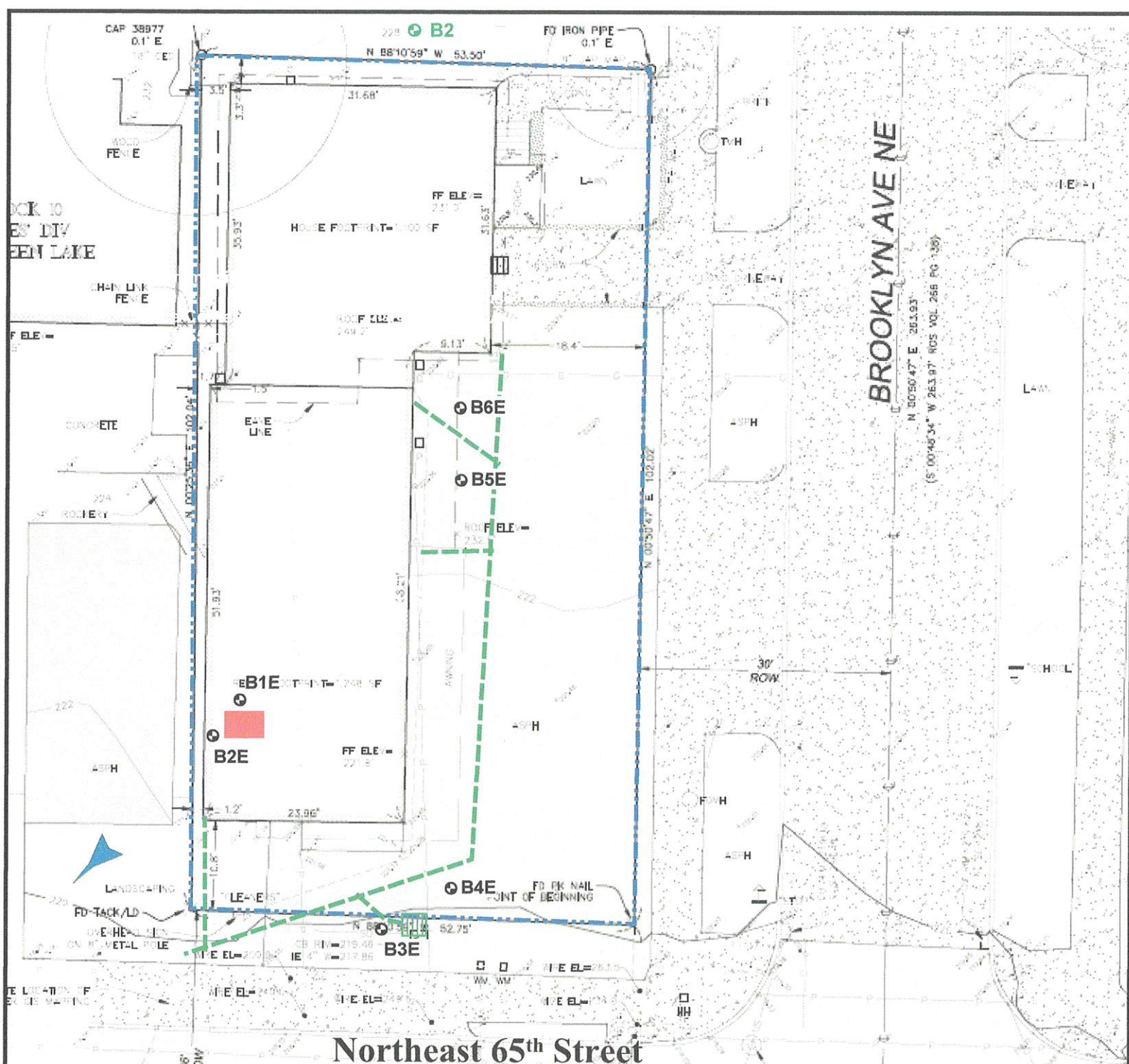
**GEOTECH
CONSULTANTS, INC.**

VICINITY MAP
All Star Cleaners Property
1222 Northeast 65th Street
Seattle, Washington

Job No:
15217E-1

Date: June 2019

Plate: 1



LEGEND:

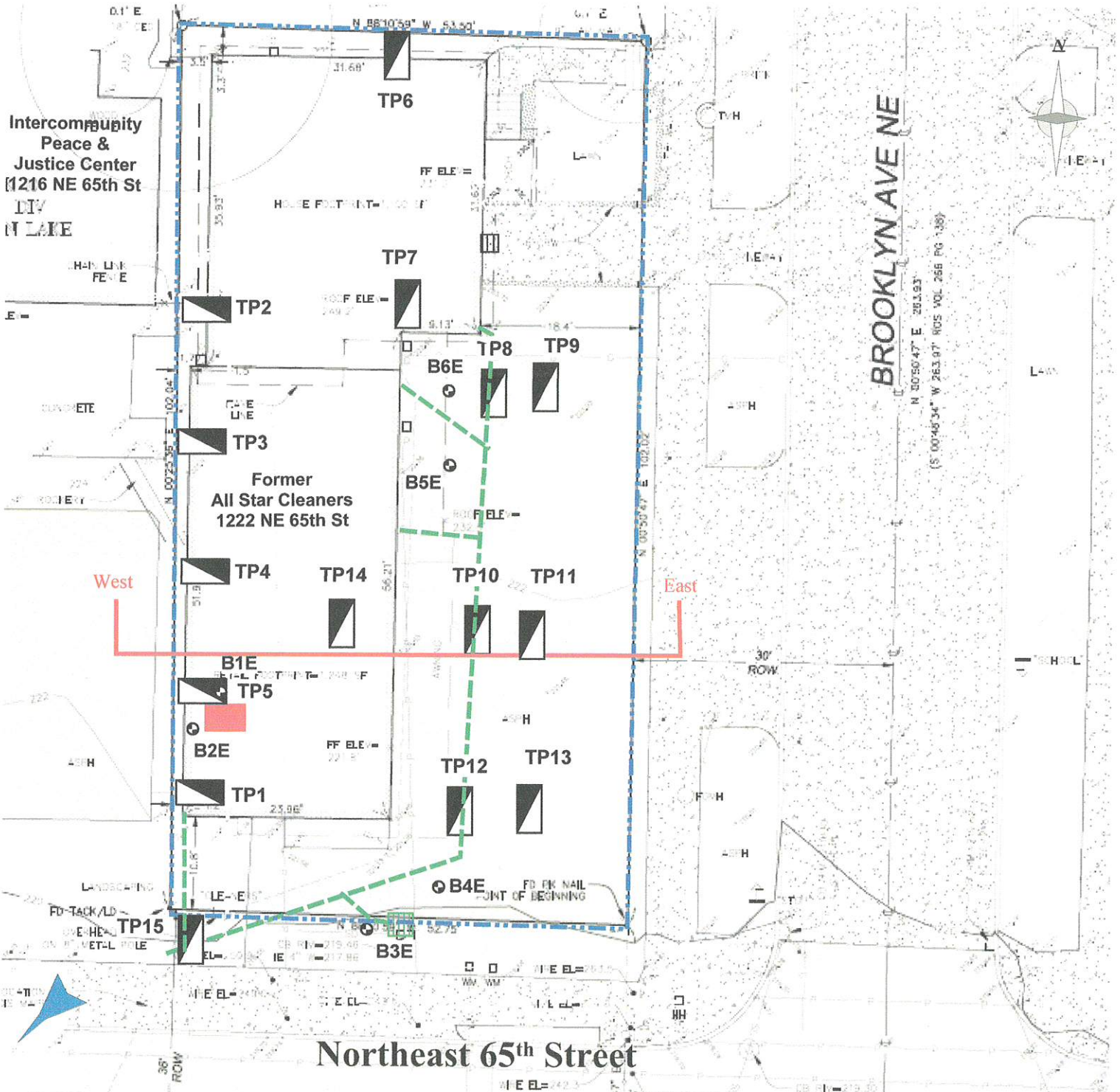
- Approximate Property Boundary (King County Assessor's Office)
- Approximate Location of Sewer Lines
- PROBABLE DIRECTION OF REGIONAL SHALLOW GROUNDWATER FLOW
(Source: GeoDimensions Topographic and Boundary Survey 2016)
- B1E Approximate Location of Geotech Consultants Environmental Boring June 2015
- Approximate Historical Location of Dry Cleaning Machine
- Approximate Location of Catch Basin
- B2E Approximate Location of Aspect Consulting Boring June 2015

Scale 1" = 16'



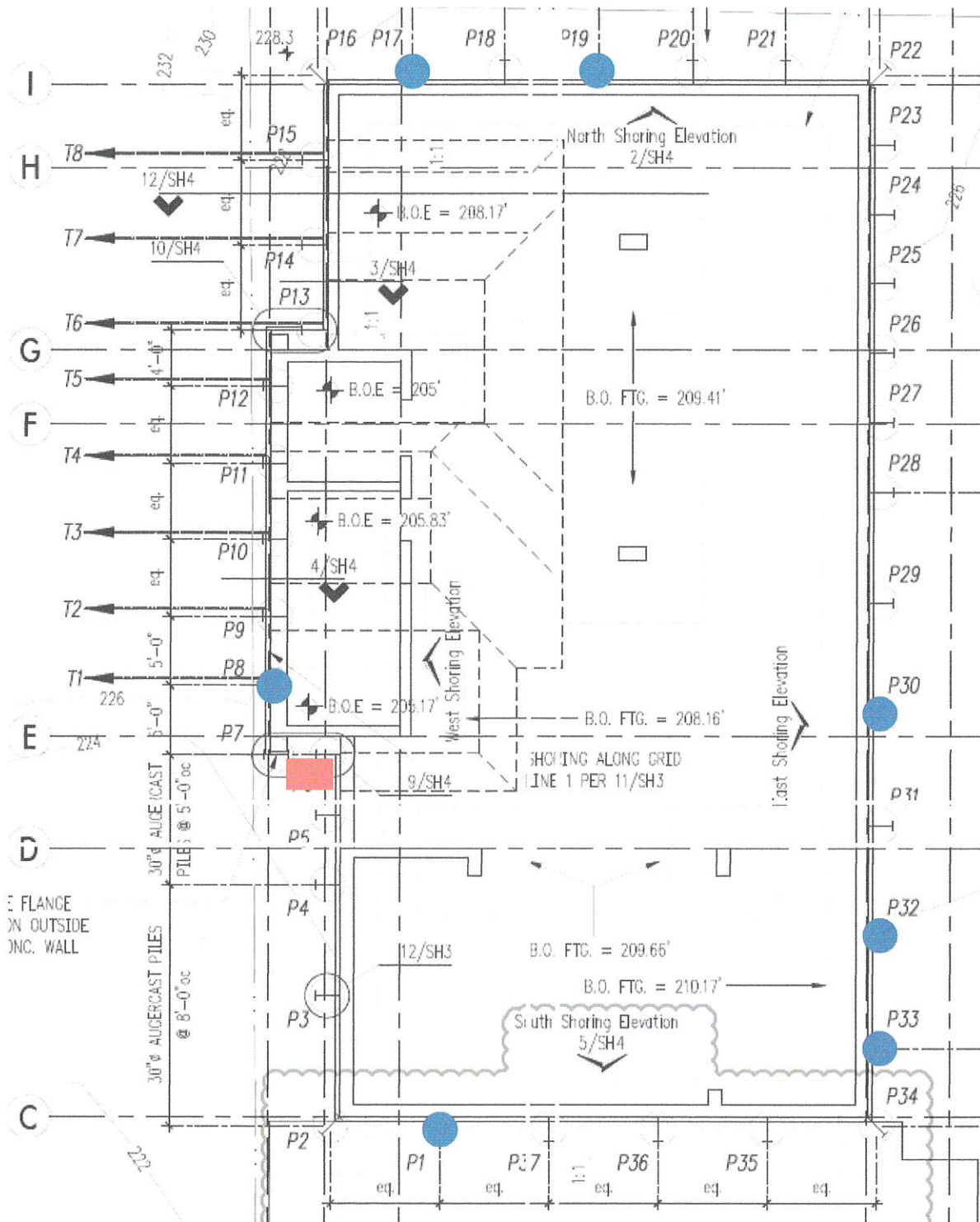
PHASE 2 EXPLORATION MAP
 All Star Cleaners Property
 1222 Northeast 65th Street
 Seattle, Washington

Job No: 15217E-1	Date: June 2019	Plate: 2
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TEST PIT LOCATION MAP
All Star Cleaners Property
1222 Northeast 65th Street
Seattle, Washington

Job No: 15217E-1	Date: June 2019	Plate: 3
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LEGEND:

 **P1** Soldier Pile
(sampled from tip of 36"-diameter auger)

 PROBABLE DIRECTION OF REGIONAL SHALLOW GROUNDWATER FLOW

 Approximate Historical Location of Dry Cleaning Machine

(Source: SSF Structural Engineering Revised Soldier Pile Plan)

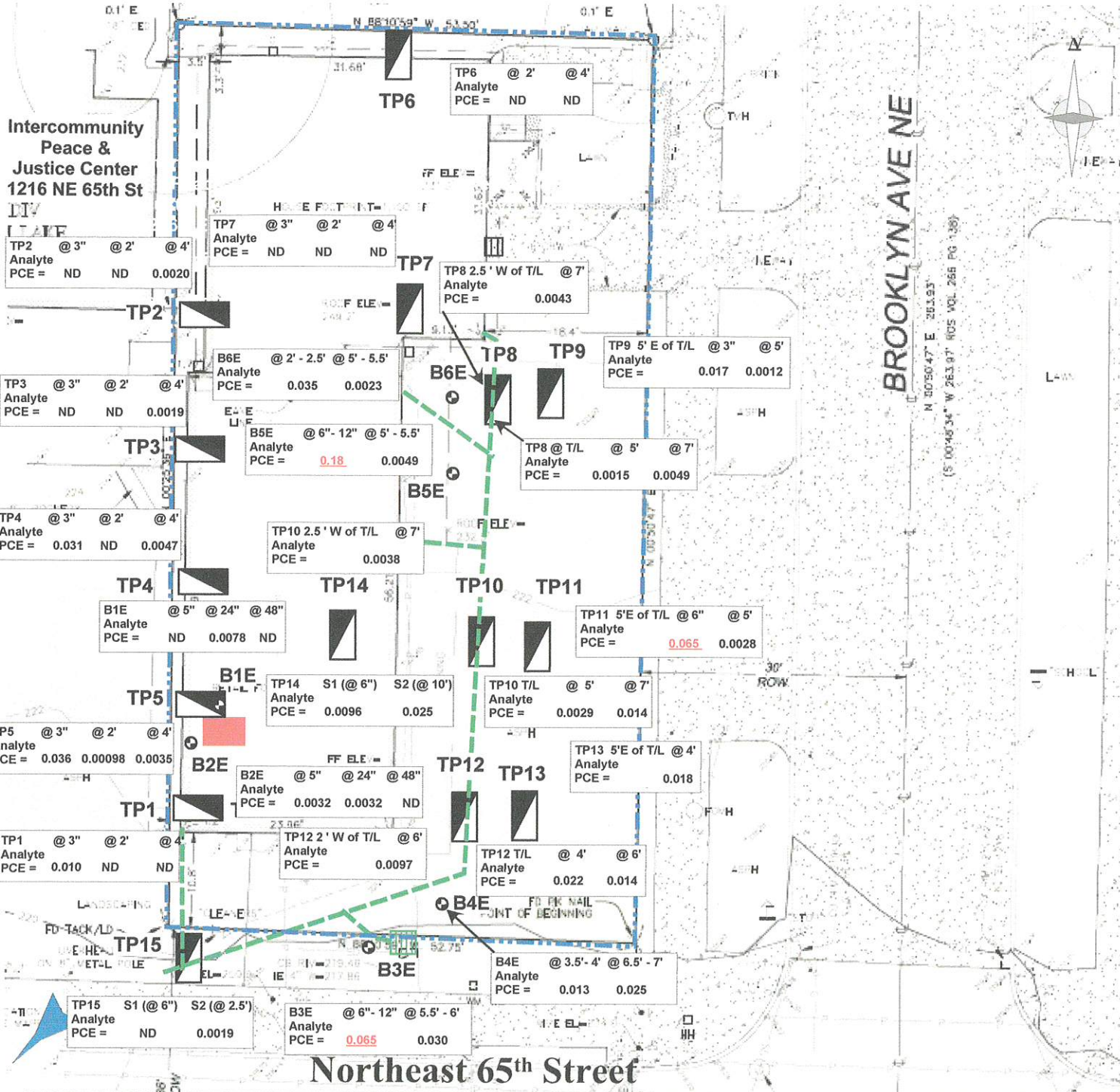


Scale 1" = 10'



SOLDIER PILE SAMPLE MAP
 All Star Cleaners Property
 1222 Northeast 65th Street
 Seattle, Washington

Job No: 15217E-1	Date: Jun 2019	Plate: 4
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LEGEND:

- ⊙ Approximate Location of Geotech Consultants
- B1E Environmental Boring June 2015
- TP1 Approximate Location of Geotech Consultants
- TP1 Test Pit 04 20 2017, 04 26 2017, & 04 27 2017
- PROBABLE DIRECTION OF REGIONAL SHALLOW GROUNDWATER FLOW
- Approximate Sewer Line (Geophysical Survey)
- Approximate Property Boundary
- Approximate Location of Dry Cleaning June 2015

(Source: GeoDimensions Topographic and Boundary Survey 2016)

Scale 1" = 16'

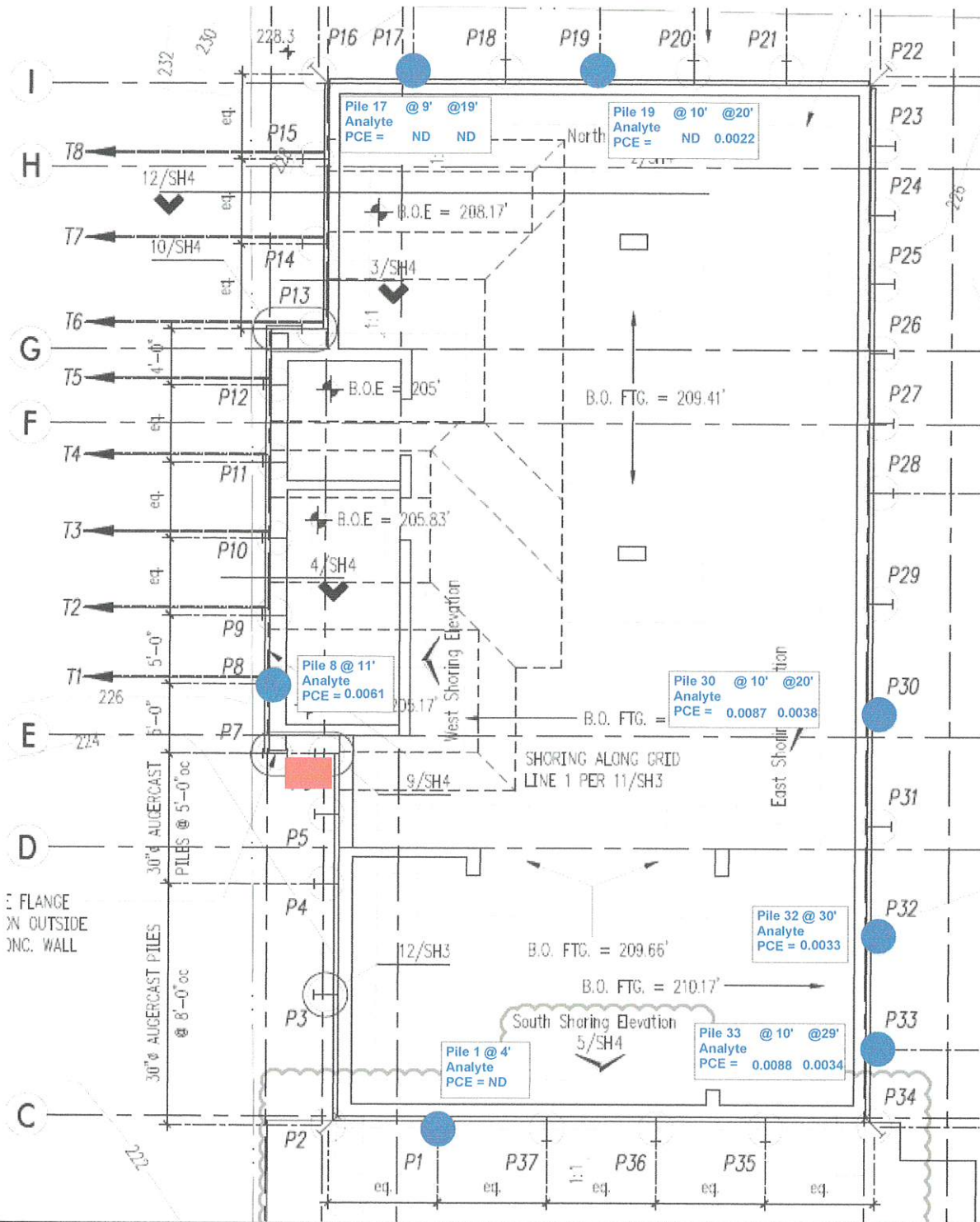
Analyte B1E @ 5" & TP1 @ 3"

PCE = Tetrachloroethene
Results reported in parts per million (ppm)
ND Not Detected above practical quantitation limit of 0.001 ppm
Values in red and underlined exceed MTCA cleanup of 0.05 ppm
T/L denotes trench line for sewer



PHASE 2 & TEST PIT SOIL RESULTS
All Star Cleaners Property
1222 Northeast 65th Street
Seattle, Washington

Job No: 15217E-1	Date: June 2019	Plate: 5
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LEGEND:

- P1** Soldier Pile (sampled from tip of 36"-diameter auger approximate depth)
- Approximate Historical Location of Dry Cleaning Machine
- PROBABLE DIRECTION OF REGIONAL SHALLOW GROUNDWATER FLOW

Analyte Pile 1 @ 4'

PCE = Tetrachloroethene
 Results reported in parts per million (ppm)
 ND Not Detected above practical
 quantitation limit of 0.001 ppm

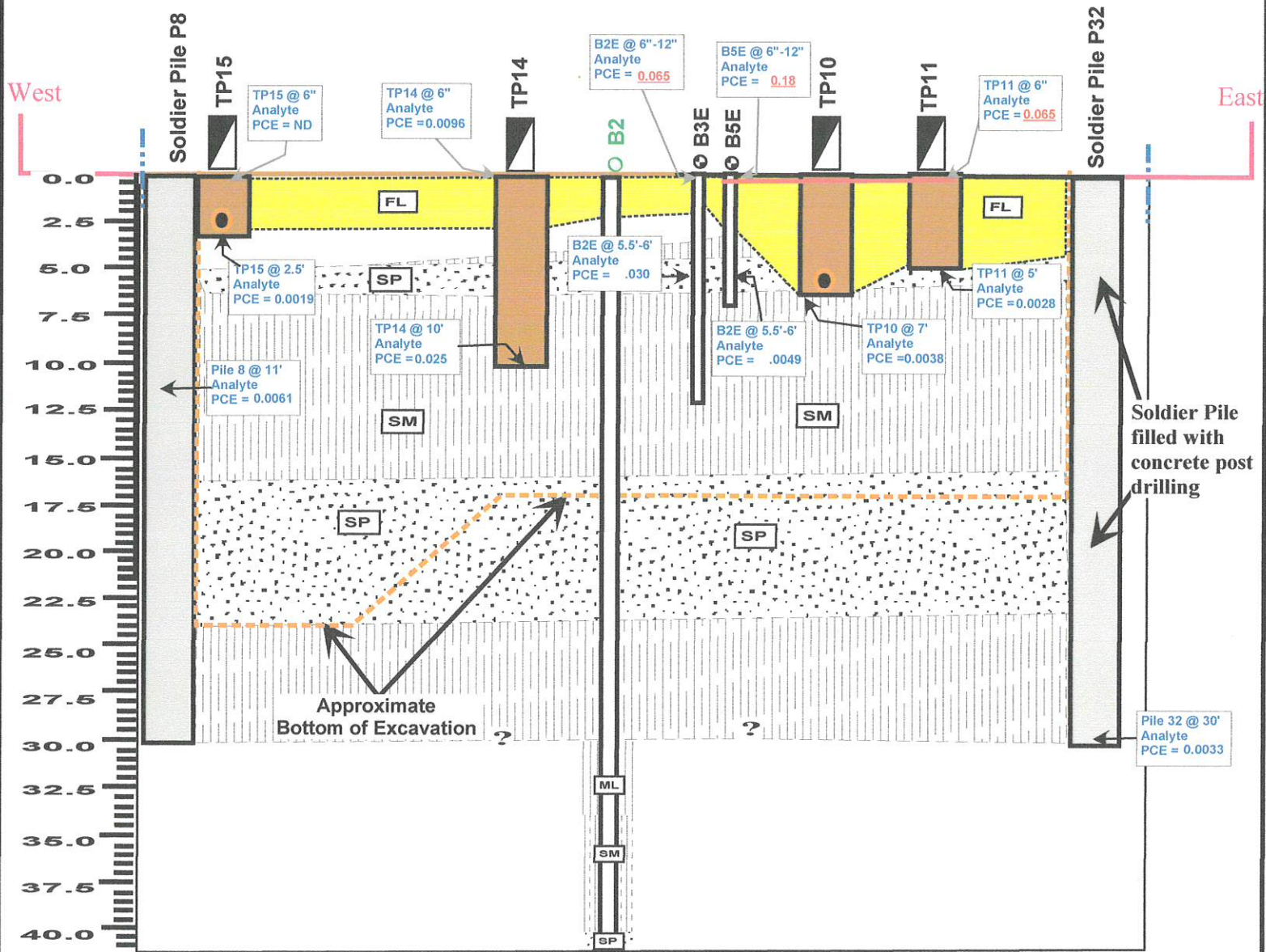


(Source: SSF Structural Engineering Revised Soldier Pile Plan) Scale 1" = 10'



SOLDIER PILE SAMPLE RESULTS
 All Star Cleaners Property
 1222 Northeast 65th Street
 Seattle, Washington

Job No: 15217E-1	Date: Jun 2019	Plate: 6
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LEGEND:

- B3E** Approximate location of Geotech boring drilled June 2015.
- B2** Approximate location of aspect Consulting boring drilled November 2013.
- TP11** Approximate location of Geotech test pit excavated April 2017.
- Proposed Foundation Excavation** (dashed orange line)
- Approximate Property Line** (dashed blue line)
- Approximate Ground Surface** (solid orange line)
 (dirt, asphalt)
 (PCE-contaminated asphalt)
- Approximate location of tube and bell sewer line** (circle with dot)

Pile 32 @ 30'
 Analyte
 PCE = Tetrachloroethene
 Results reported in parts per million (ppm)
 ND Not Detected above practical
 quantitation limit of 0.001 ppm
 Values in red and underlined exceed MTCA
 cleanup of 0.05 ppm

Scale 1" = 8'






CROSS SECTION
 All Star Cleaners Property
 1222 Northeast 65th Street
 Seattle, Washington

Job No: 15217E-1	Date: June 2019	Plate: 7
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LEGEND:

-  Approximate Property Boundary (King County Assessor's Office)
-  Approximate Location of Properties with deep borings/monitoring wells used to justify no groundwater beneath the site.
-  PROBABLE DIRECTION OF REGIONAL SHALLOW GROUNDWATER FLOW (Source: King County Assessor's Office 2017 Aerial)



Scale 1" = 216'



GEOTECH
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REFERENCED BORINGS AERIAL MAP
All Star Cleaners Property
1222 Northeast 65th Street
Seattle, Washington

Job No: 15217E-1	Date: June 2019	Plate: 8
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TABLES

TABLE 1
PHASE 2 HVOC SOIL SAMPLE RESULTS¹

Boring	PCE	TCE	1,1- DCE	trans 1,2-DCE	cis 1,2-DCE	VC
B1E @ 5"	ND ³	ND	ND	ND	ND	ND
B1E @ 24"	0.0078	ND	ND	ND	ND	ND
B1E @ 48"	ND	ND	ND	ND	ND	ND
B2E @ 5"	0.0032	ND	ND	ND	ND	ND
B2E @ 24"	0.0032	ND	ND	ND	ND	ND
B2E @ 48"	ND	ND	ND	ND	ND	ND
B3E @ 0.5'-1'	0.065	ND	ND	ND	ND	ND
B3E @ 5.5'- 6'	0.030	ND	ND	ND	ND	ND
B4E @ 3.5'- 4'	0.013	ND	ND	ND	ND	ND
B4E @ 6.5 -7'	0.025	ND	ND	ND	ND	ND
B5E @ 0.5 - 1'	0.18	ND	ND	ND	ND	ND
B5E @ 5 - 2.5'	0.0049	ND	ND	ND	ND	ND
B6E @ 2 - 2.5'	0.035	ND	ND	ND	ND	ND
B6E @ 5'- 5.5'	0.0023	ND	ND	ND	ND	ND
Method Detection Levels	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
Current Cleanup Levels^{3,4}	0.050³	0.030³	0.0475⁴	0.518⁴	0.0781⁴	0.00167⁴

Notes:

1. Results are reported in parts per million (ppm).
2. ND denotes not detected above the practical quantitation limit.
3. Method A Soil Cleanup Levels for Unrestricted Land Use: MTCA Table 740-1.
4. Standard Method B Formula Values for Soil Protective of Groundwater (CLARC).

**TABLE 2
TEST PIT HVOC SOIL SAMPLE RESULTS¹**

Test Pit (notes)	PCE ²	TCE	1,1-DCE	trans 1,2-DCE	cis 1,2-DCE	VC
TP1 @ 3"	0.010	ND	ND	ND	ND	ND
TP1 @ 2'	ND ³	ND	ND	ND	ND	ND
TP1 @ 4'	ND	ND	ND	ND	ND	ND
TP2 @ 3"	ND	ND	ND	ND	ND	ND
TP2 @ 2'	ND	ND	ND	ND	ND	ND
TP2 @ 4'	0.002	ND	ND	ND	ND	ND
TP3 @ 3"	ND	ND	ND	ND	ND	ND
TP3 @ 2'	ND	ND	ND	ND	ND	ND
TP3 @ 4'	0.0019	ND	ND	ND	ND	ND
TP4 @ 3"	0.031	ND	ND	ND	ND	ND
TP4 @ 2'	ND	ND	ND	ND	ND	ND
TP4 @ 4'	0.0047	ND	ND	ND	ND	ND
TP5 @ 3"	0.036	ND	ND	ND	ND	ND
TP5 @ 2'	0.0098	ND	ND	ND	ND	ND
TP5 @ 4'	0.0035	ND	ND	ND	ND	ND
TP6 @ 2'	ND	ND	ND	ND	ND	ND
TP6 @ 4'	ND	ND	ND	ND	ND	ND
TP7 @ 3"	ND	ND	ND	ND	ND	ND
TP7 @ 2'	ND	ND	ND	ND	ND	ND
TP7 @ 4'	ND	ND	ND	ND	ND	ND
TP8 @ 5' (@ Sewer Trench Line)	0.0015	ND	ND	ND	ND	ND
TP8 @ 7' (@ Sewer Trench Line)	0.0049	ND	ND	ND	ND	ND
TP8 @ 7' (2.5' West of Sewer Trench Line)	0.0043	ND	ND	ND	ND	ND
TP9 @ 3"	0.017	ND	ND	ND	ND	ND
TP9 @ 5' (5' East of Sewer Trench Line)	0.0012	ND	ND	ND	ND	ND
TP10 @ 5' (@ Sewer Trench Line)	0.0029	ND	ND	ND	ND	ND
TP10 @ 7' (@ Sewer Trench Line)	0.014	ND	ND	ND	ND	ND
TP10 @ 7' (2.5' West of Sewer Trench Line)	0.0038	ND	ND	ND	ND	ND
TP11 @ 6"	0.065	ND	ND	ND	ND	ND
TP11 @ 5' (5' East of Sewer Trench Line)	0.0028	ND	ND	ND	ND	ND
TP12 @ 4' (@ Sewer Trench Line)	0.022	ND	ND	ND	ND	ND
TP12 @ 6' (@ Sewer Trench Line)	0.014	ND	ND	ND	ND	ND
TP12 @ 6' (2' West of Sewer Trench Line)	0.0097	ND	ND	ND	ND	ND
TP13 @ 4' (5' East of Sewer Trench Line)	0.018	ND	ND	ND	ND	ND
TP14 S1 @6"	0.0096	ND	ND	ND	ND	ND
TP14 S2 @10'	0.025	ND	ND	ND	ND	ND
TP15 S1 @6"	ND	ND	ND	ND	ND	ND
TP15 S2 @2.5' (@ Sewer Trench Line)	0.0019	ND	ND	ND	ND	ND
Practical Quantitation Limit	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
Current Cleanup Levels^{3,4}	0.050³	0.030³	0.0475⁴	0.518⁴	0.0781⁴	0.00167⁴

Notes:

1. Results are reported in parts per million (ppm).
 2. ND denotes not detected above the practical quantitation limit.
 3. Method A Soil Cleanup Levels for Unrestricted Land Use: MTCA Table 740-1.
 4. Standard Method B Formula Values for Soil Protective of Groundwater (CLARC).
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**TABLE 3
SOLDIER PILE 2 HVOC SOIL SAMPLE RESULTS¹**

Soldier Pile	PCE	TCE	1,1- DCE	trans 1,2-DCE	cis 1,2-DCE	VC
Pile 1 @ 4'	ND ³	ND	ND	ND	ND	ND
Pile 8 @ 11'	0.0061	ND	ND	ND	ND	ND
Pile 17 @ 9'	ND	ND	ND	ND	ND	ND
Pile 17 @ 19'	ND	ND	ND	ND	ND	ND
Pile 19 @ 10'	ND	ND	ND	ND	ND	ND
Pile 19 @ 20'	0.0022	ND	ND	ND	ND	ND
Pile 30 @ 10'	0.0087	ND	ND	ND	ND	ND
Pile 30 @ 20'	0.0038	ND	ND	ND	ND	ND
Pile 32 @ 30'	0.0033	ND	ND	ND	ND	ND
Pile 32 @ 10'	0.0088	ND	ND	ND	ND	ND
Pile 32 @ 29'	0.0034	ND	ND	ND	ND	ND
Method Detection Levels	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
Current Cleanup Levels^{3,4}	0.050³	0.030³	0.0475⁴	0.518⁴	0.0781⁴	0.00167⁴

Notes:

5. Results are reported in parts per million (ppm).
6. ND denotes not detected above the practical quantitation limit.
7. Method A Soil Cleanup Levels for Unrestricted Land Use: MTCA Table 740-1.
8. Standard Method B Formula Values for Soil Protective of Groundwater (CLARC).

**APPENDIX A
LABORATORY REPORTS**



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

April 24, 2017

Tim Johnson
GeoTech Consultants
2401-10th Avenue East
Seattle, WA 98102, WA 98005

Re: Analytical Data for Project 15217E-1
Laboratory Reference No. 1704-194

Dear Tim:

Enclosed are the analytical results and associated quality control data for samples submitted on April 20, 2017.

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: April 24, 2017
Samples Submitted: April 20, 2017
Laboratory Reference: 1704-194
Project: 15217E-1

Case Narrative

Samples were collected on April 20, 2017 and received by the laboratory on April 20, 2017. 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.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

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



Date of Report: April 24, 2017
 Samples Submitted: April 20, 2017
 Laboratory Reference: 1704-194
 Project: 15217E-1

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP1@3"					
Laboratory ID:	04-194-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Chloromethane	ND	0.0055	EPA 8260C	4-21-17	4-21-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Bromomethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Chloroethane	ND	0.0055	EPA 8260C	4-21-17	4-21-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Iodomethane	ND	0.0055	EPA 8260C	4-21-17	4-21-17	
Methylene Chloride	ND	0.0055	EPA 8260C	4-21-17	4-21-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Bromochloromethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Chloroform	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Trichloroethene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Dibromomethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	4-21-17	4-21-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP1 @3"					
Laboratory ID:	04-194-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Tetrachloroethene	0.010	0.0011	EPA 8260C	4-21-17	4-21-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Chlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Bromoform	ND	0.0055	EPA 8260C	4-21-17	4-21-17	
Bromobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	4-21-17	4-21-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0073	EPA 8260C	4-21-17	4-21-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP1@2'					
Laboratory ID:	04-194-02					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Chloromethane	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Bromomethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Chloroethane	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Iodomethane	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
Methylene Chloride	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Bromochloromethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Chloroform	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Trichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Dibromomethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP1@2'					
Laboratory ID:	04-194-02					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Chlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Bromoform	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
Bromobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0067	EPA 8260C	4-21-17	4-21-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>86</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP1@4'					
Laboratory ID:	04-194-03					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
Chloromethane	ND	0.0055	EPA 8260C	4-24-17	4-24-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
Bromomethane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
Chloroethane	ND	0.0055	EPA 8260C	4-24-17	4-24-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
Iodomethane	ND	0.0055	EPA 8260C	4-24-17	4-24-17	
Methylene Chloride	ND	0.0078	EPA 8260C	4-24-17	4-24-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
Bromochloromethane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
Chloroform	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
Trichloroethene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
Dibromomethane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	4-24-17	4-24-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP1@4'					
Laboratory ID:	04-194-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
Chlorobenzene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
Bromoform	ND	0.0055	EPA 8260C	4-24-17	4-24-17	
Bromobenzene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	4-24-17	4-24-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	4-24-17	4-24-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	4-24-17	4-24-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP2@3"					
Laboratory ID:	04-194-04					
Dichlorodifluoromethane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
Chloromethane	ND	0.0049	EPA 8260C	4-21-17	4-21-17	
Vinyl Chloride	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
Bromomethane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
Chloroethane	ND	0.0049	EPA 8260C	4-21-17	4-21-17	
Trichlorofluoromethane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
Iodomethane	ND	0.0049	EPA 8260C	4-21-17	4-21-17	
Methylene Chloride	ND	0.0049	EPA 8260C	4-21-17	4-21-17	
(trans) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
2,2-Dichloropropane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
(cis) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
Bromochloromethane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
Chloroform	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
1,1,1-Trichloroethane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
Carbon Tetrachloride	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloropropene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloroethane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
Trichloroethene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloropropane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
Dibromomethane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
Bromodichloromethane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	4-21-17	4-21-17	
(cis) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
(trans) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP2@3"					
Laboratory ID:	04-194-04					
1,1,2-Trichloroethane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
Tetrachloroethene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
1,3-Dichloropropane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
Dibromochloromethane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromoethane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
Chlorobenzene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
Bromoform	ND	0.0049	EPA 8260C	4-21-17	4-21-17	
Bromobenzene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
2-Chlorotoluene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
4-Chlorotoluene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
1,3-Dichlorobenzene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
1,4-Dichlorobenzene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
1,2-Dichlorobenzene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0066	EPA 8260C	4-21-17	4-21-17	
1,2,4-Trichlorobenzene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichlorobenzene	ND	0.00098	EPA 8260C	4-21-17	4-21-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP2@2'					
Laboratory ID:	04-194-05					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chloromethane	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromomethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chloroethane	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Iodomethane	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
Methylene Chloride	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromochloromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chloroform	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Trichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Dibromomethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP2@2'					
Laboratory ID:	04-194-05					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromoform	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
Bromobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	4-21-17	4-21-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0080	EPA 8260C	4-21-17	4-21-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP2@4'					
Laboratory ID:	04-194-06					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Chloromethane	ND	0.0054	EPA 8260C	4-21-17	4-21-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Bromomethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Chloroethane	ND	0.0054	EPA 8260C	4-21-17	4-21-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Iodomethane	ND	0.0054	EPA 8260C	4-21-17	4-21-17	
Methylene Chloride	ND	0.0054	EPA 8260C	4-21-17	4-21-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Bromochloromethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Chloroform	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Trichloroethene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Dibromomethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	4-21-17	4-21-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP2@4'					
Laboratory ID:	04-194-06					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Tetrachloroethene	0.0020	0.0011	EPA 8260C	4-21-17	4-21-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Chlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Bromoform	ND	0.0054	EPA 8260C	4-21-17	4-21-17	
Bromobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	4-21-17	4-21-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0072	EPA 8260C	4-21-17	4-21-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP3@3"					
Laboratory ID:	04-194-07					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Chloromethane	ND	0.0063	EPA 8260C	4-21-17	4-21-17	
Vinyl Chloride	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Bromomethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Chloroethane	ND	0.0063	EPA 8260C	4-21-17	4-21-17	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Iodomethane	ND	0.0063	EPA 8260C	4-21-17	4-21-17	
Methylene Chloride	ND	0.0063	EPA 8260C	4-21-17	4-21-17	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Bromochloromethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Chloroform	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Trichloroethene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Dibromomethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Bromodichloromethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	4-21-17	4-21-17	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP3@3"					
Laboratory ID:	04-194-07					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Tetrachloroethene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Dibromochloromethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Chlorobenzene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Bromoform	ND	0.0063	EPA 8260C	4-21-17	4-21-17	
Bromobenzene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0016	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichloropropane	ND	0.0016	EPA 8260C	4-21-17	4-21-17	
2-Chlorotoluene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
4-Chlorotoluene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0085	EPA 8260C	4-21-17	4-21-17	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Hexachlorobutadiene	ND	0.0063	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP3@2'					
Laboratory ID:	04-194-08					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
Chloromethane	ND	0.0061	EPA 8260C	4-24-17	4-24-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
Bromomethane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
Chloroethane	ND	0.0061	EPA 8260C	4-24-17	4-24-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
Iodomethane	ND	0.0061	EPA 8260C	4-24-17	4-24-17	
Methylene Chloride	ND	0.0086	EPA 8260C	4-24-17	4-24-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
Bromochloromethane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
Chloroform	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
Trichloroethene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
Dibromomethane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	4-24-17	4-24-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP3@2'					
Laboratory ID:	04-194-08					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
Chlorobenzene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
Bromoform	ND	0.0061	EPA 8260C	4-24-17	4-24-17	
Bromobenzene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	4-24-17	4-24-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	4-24-17	4-24-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	4-24-17	4-24-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP3@4'					
Laboratory ID:	04-194-09					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chloromethane	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromomethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chloroethane	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Iodomethane	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
Methylene Chloride	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromochloromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chloroform	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Trichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Dibromomethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP3@4'					
Laboratory ID:	04-194-09					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Tetrachloroethene	0.0019	0.0012	EPA 8260C	4-21-17	4-21-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromoform	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
Bromobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0016	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichloropropane	ND	0.0016	EPA 8260C	4-21-17	4-21-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0080	EPA 8260C	4-21-17	4-21-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP4@3"					
Laboratory ID:	04-194-10					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chloromethane	ND	0.0062	EPA 8260C	4-21-17	4-21-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromomethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chloroethane	ND	0.0062	EPA 8260C	4-21-17	4-21-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Iodomethane	ND	0.0062	EPA 8260C	4-21-17	4-21-17	
Methylene Chloride	ND	0.0062	EPA 8260C	4-21-17	4-21-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromochloromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chloroform	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Trichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Dibromomethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260C	4-21-17	4-21-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP4@3"					
Laboratory ID:	04-194-10					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Tetrachloroethene	0.031	0.0012	EPA 8260C	4-21-17	4-21-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromoform	ND	0.0062	EPA 8260C	4-21-17	4-21-17	
Bromobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0016	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichloropropane	ND	0.0016	EPA 8260C	4-21-17	4-21-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0083	EPA 8260C	4-21-17	4-21-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Hexachlorobutadiene	ND	0.0062	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP4@2'					
Laboratory ID:	04-194-11					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Chloromethane	ND	0.0051	EPA 8260C	4-21-17	4-21-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Bromomethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Chloroethane	ND	0.0051	EPA 8260C	4-21-17	4-21-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Iodomethane	ND	0.0051	EPA 8260C	4-21-17	4-21-17	
Methylene Chloride	ND	0.0051	EPA 8260C	4-21-17	4-21-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Bromochloromethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Chloroform	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Trichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Dibromomethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	4-21-17	4-21-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP4@2'					
Laboratory ID:	04-194-11					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Chlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Bromoform	ND	0.0051	EPA 8260C	4-21-17	4-21-17	
Bromobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0068	EPA 8260C	4-21-17	4-21-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP4@4'					
Laboratory ID:	04-194-12					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chloromethane	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromomethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chloroethane	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Iodomethane	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
Methylene Chloride	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromochloromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chloroform	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Trichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Dibromomethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP4@4'					
Laboratory ID:	04-194-12					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Tetrachloroethene	0.0047	0.0012	EPA 8260C	4-21-17	4-21-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromoform	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
Bromobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0016	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichloropropane	ND	0.0016	EPA 8260C	4-21-17	4-21-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0080	EPA 8260C	4-21-17	4-21-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP5@3"					
Laboratory ID:	04-194-13					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chloromethane	ND	0.0061	EPA 8260C	4-21-17	4-21-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromomethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chloroethane	ND	0.0061	EPA 8260C	4-21-17	4-21-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Iodomethane	ND	0.0061	EPA 8260C	4-21-17	4-21-17	
Methylene Chloride	ND	0.0061	EPA 8260C	4-21-17	4-21-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromochloromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chloroform	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Trichloroethene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Dibromomethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	4-21-17	4-21-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP5@3"					
Laboratory ID:	04-194-13					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Tetrachloroethene	0.036	0.0012	EPA 8260C	4-21-17	4-21-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Chlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Bromoform	ND	0.0061	EPA 8260C	4-21-17	4-21-17	
Bromobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0016	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichloropropane	ND	0.0016	EPA 8260C	4-21-17	4-21-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0082	EPA 8260C	4-21-17	4-21-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP5@2'					
Laboratory ID:	04-194-14					
Dichlorodifluoromethane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
Chloromethane	ND	0.0048	EPA 8260C	4-24-17	4-24-17	
Vinyl Chloride	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
Bromomethane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
Chloroethane	ND	0.0048	EPA 8260C	4-24-17	4-24-17	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
Iodomethane	ND	0.0048	EPA 8260C	4-24-17	4-24-17	
Methylene Chloride	ND	0.0067	EPA 8260C	4-24-17	4-24-17	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
Bromochloromethane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
Chloroform	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
Trichloroethene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
Dibromomethane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
Bromodichloromethane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	4-24-17	4-24-17	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP5@2'					
Laboratory ID:	04-194-14					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
Tetrachloroethene	0.00098	0.00095	EPA 8260C	4-24-17	4-24-17	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
Dibromochloromethane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
Chlorobenzene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
Bromoform	ND	0.0048	EPA 8260C	4-24-17	4-24-17	
Bromobenzene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
2-Chlorotoluene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
4-Chlorotoluene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	4-24-17	4-24-17	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	4-24-17	4-24-17	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	4-24-17	4-24-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP5@4'					
Laboratory ID:	04-194-15					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Chloromethane	ND	0.0054	EPA 8260C	4-21-17	4-21-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Bromomethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Chloroethane	ND	0.0054	EPA 8260C	4-21-17	4-21-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Iodomethane	ND	0.0054	EPA 8260C	4-21-17	4-21-17	
Methylene Chloride	ND	0.0054	EPA 8260C	4-21-17	4-21-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Bromochloromethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Chloroform	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Trichloroethene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Dibromomethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	4-21-17	4-21-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP5@4'					
Laboratory ID:	04-194-15					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Tetrachloroethene	0.0035	0.0011	EPA 8260C	4-21-17	4-21-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Chlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Bromoform	ND	0.0054	EPA 8260C	4-21-17	4-21-17	
Bromobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	4-21-17	4-21-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0072	EPA 8260C	4-21-17	4-21-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	4-21-17	4-21-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-131</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0421S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Chloromethane	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Bromomethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Chloroethane	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Iodomethane	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
Methylene Chloride	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Bromochloromethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Chloroform	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Trichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Dibromomethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0421S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Chlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Bromoform	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
Bromobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0067	EPA 8260C	4-21-17	4-21-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>123</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>123</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-131</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0424S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
Chloromethane	ND	0.0050	EPA 8260C	4-21-17	4-24-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
Bromomethane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
Chloroethane	ND	0.0050	EPA 8260C	4-21-17	4-24-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
Iodomethane	ND	0.0050	EPA 8260C	4-21-17	4-24-17	
Methylene Chloride	ND	0.0071	EPA 8260C	4-21-17	4-24-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
Bromochloromethane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
Chloroform	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
Trichloroethene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
Dibromomethane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	4-21-17	4-24-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	



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 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0424S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
Chlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
Bromoform	ND	0.0050	EPA 8260C	4-21-17	4-24-17	
Bromobenzene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	4-21-17	4-24-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	4-21-17	4-24-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	4-21-17	4-24-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>121</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-131</i>				



Date of Report: April 24, 2017
 Samples Submitted: April 20, 2017
 Laboratory Reference: 1704-194
 Project: 15217E-1

**HALOGENATED VOLATILES EPA 8260C
 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:	SB0421S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0552	0.0564	0.0500	0.0500	110	113	66-127	2	15	
Benzene	0.0542	0.0538	0.0500	0.0500	108	108	76-122	1	15	
Trichloroethene	0.0500	0.0535	0.0500	0.0500	100	107	78-120	7	15	
Toluene	0.0504	0.0546	0.0500	0.0500	101	109	83-120	8	15	
Chlorobenzene	0.0437	0.0478	0.0500	0.0500	87	96	81-120	9	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>130</i>	<i>124</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>114</i>	<i>119</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>86</i>	<i>87</i>	<i>80-131</i>			



Date of Report: April 24, 2017
 Samples Submitted: April 20, 2017
 Laboratory Reference: 1704-194
 Project: 15217E-1

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD 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:	SB0424S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0448	0.0489	0.0500	0.0500	90	98	66-127	9	15	
Benzene	0.0433	0.0473	0.0500	0.0500	87	95	76-122	9	15	
Trichloroethene	0.0466	0.0491	0.0500	0.0500	93	98	78-120	5	15	
Toluene	0.0458	0.0501	0.0500	0.0500	92	100	83-120	9	15	
Chlorobenzene	0.0480	0.0503	0.0500	0.0500	96	101	81-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>101</i>	<i>107</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>107</i>	<i>110</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>91</i>	<i>93</i>	<i>80-131</i>			



Date of Report: April 24, 2017
Samples Submitted: April 20, 2017
Laboratory Reference: 1704-194
Project: 15217E-1

% MOISTURE

Date Analyzed: 4-21-17

Client ID	Lab ID	% Moisture
TP1@3"	04-194-01	16
TP1@2'	04-194-02	12
TP1@4'	04-194-03	9
TP2@3"	04-194-04	11
TP2@2'	04-194-05	13
TP2@4'	04-194-06	10
TP3@3"	04-194-07	18
TP3@2'	04-194-08	10
TP3@4'	04-194-09	9
TP4@3"	04-194-10	13
TP4@2'	04-194-11	12
TP4@4'	04-194-12	10
TP5@3"	04-194-13	15
TP5@2'	04-194-14	9
TP5@4'	04-194-15	10





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 method 8260C, 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: **04-194**

Company: Estech Consulting
Project Number: 15A17E-1
Project Name: NE65th
Project Manager: Tim Johnson
Sampled by: Tim Johnson

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	TP1 @ 3"	4/20/17	8:27	Soil
2	TP1 @ 2'		8:29	
3	TP1 @ 4'		8:33	
4	TP2 @ 3"		8:45	
5	TP2 @ 2'		8:53	
6	TP2 @ 4'		8:58	
7	TP3 @ 3"		9:08	
8	TP3 @ 2'		9:11	
9	TP3 @ 4'	4/20/17	9:18	Soil

Number of Containers		Laboratory Number: 04-194																		
		NWTPH-HCID																		
		NWTPH-Gx/BTEX																		
		NWTPH-Gx																		
		NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)																		
		Volatiles 8260C																		
		Halogenated Volatiles 8260C	X																	
		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
	Estech Consulting	4/20/17	13:05	
	Estech Consulting	4/20/17	13:05	

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

April 26, 2017

Tim Johnson
GeoTech Consultants
2401-10th Avenue East
Seattle, WA 98102, WA 98005

Re: Analytical Data for Project 15217E-1
Laboratory Reference No. 1704-220

Dear Tim:

Enclosed are the analytical results and associated quality control data for samples submitted on April 24, 2017.

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: April 26, 2017
Samples Submitted: April 24, 2017
Laboratory Reference: 1704-220
Project: 15217E-1

Case Narrative

Samples were collected on April 24, 2017 and received by the laboratory on April 24, 2017. 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.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

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



Date of Report: April 26, 2017
 Samples Submitted: April 24, 2017
 Laboratory Reference: 1704-220
 Project: 15217E-1

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP6@2'					
Laboratory ID:	04-220-01					
Dichlorodifluoromethane	ND	0.0020	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0072	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0072	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0072	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.011	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0072	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	



Date of Report: April 26, 2017
 Samples Submitted: April 24, 2017
 Laboratory Reference: 1704-220
 Project: 15217E-1

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP6@2'					
Laboratory ID:	04-220-01					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0072	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0072	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0072	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-131</i>				



Date of Report: April 26, 2017
 Samples Submitted: April 24, 2017
 Laboratory Reference: 1704-220
 Project: 15217E-1

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP6@4'					
Laboratory ID:	04-220-02					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0058	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0058	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0058	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0087	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	



Date of Report: April 26, 2017
 Samples Submitted: April 24, 2017
 Laboratory Reference: 1704-220
 Project: 15217E-1

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP6@4'					
Laboratory ID:	04-220-02					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0058	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>122</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-131</i>				



Date of Report: April 26, 2017
 Samples Submitted: April 24, 2017
 Laboratory Reference: 1704-220
 Project: 15217E-1

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP7@3"					
Laboratory ID:	04-220-03					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0056	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0056	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0056	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0084	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP7@3"					
Laboratory ID:	04-220-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0056	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP7@2'					
Laboratory ID:	04-220-04					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0049	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0049	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0049	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0073	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP7@2'					
Laboratory ID:	04-220-04					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0049	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP7@4'					
Laboratory ID:	04-220-05					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0085	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP7@4'					
Laboratory ID:	04-220-05					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>122</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>124</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP8@5' T/L					
Laboratory ID:	04-220-06					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0086	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP8@5' T/L					
Laboratory ID:	04-220-06					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	0.0015	0.0011	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP8@7' T/L					
Laboratory ID:	04-220-07					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0046	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0046	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0046	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0068	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP8@7' T/L					
Laboratory ID:	04-220-07					
1,1,2-Trichloroethane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	0.0049	0.00091	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0046	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.00091	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP8@7', 2.5' W T/L					
Laboratory ID:	04-220-08					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0048	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0048	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0048	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0072	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP8@7', 2.5' W T/L					
Laboratory ID:	04-220-08					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	0.0043	0.00095	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0048	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP9@3"					
Laboratory ID:	04-220-09					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0086	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP9@3"					
Laboratory ID:	04-220-09					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	0.017	0.0011	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP9@5', 5' E T/L					
Laboratory ID:	04-220-10					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0059	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0059	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0059	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0089	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP9@5', 5' E T/L					
Laboratory ID:	04-220-10					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	0.0012	0.0012	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0059	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP10@5' T/L					
Laboratory ID:	04-220-11					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0061	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0061	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0061	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0091	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP10@5' T/L					
Laboratory ID:	04-220-11					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	0.0029	0.0012	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0061	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP10@7' T/L					
Laboratory ID:	04-220-12					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0053	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0053	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0053	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0080	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP10@7' T/L					
Laboratory ID:	04-220-12					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	0.014	0.0011	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0053	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>119</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP10@7', 2.5' W T/L					
Laboratory ID:	04-220-13					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0051	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0051	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0051	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0076	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP10@7', 2.5' W T/L					
Laboratory ID:	04-220-13					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	0.0038	0.0010	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0051	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP11@6"					
Laboratory ID:	04-220-14					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0064	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0064	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0064	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0097	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP11@6"					
Laboratory ID:	04-220-14					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	0.065	0.0013	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0064	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0064	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0064	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>86</i>	<i>80-131</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP11 @ 5th, 5' E T/L					
Laboratory ID:	04-220-15					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0061	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0061	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0061	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0091	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP11@5 ^x , 5' E T/L					
Laboratory ID:	04-220-15					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	0.0028	0.0012	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0061	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP12@4' T/L					
Laboratory ID:	04-220-16					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0085	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP12@4' T/L					
Laboratory ID:	04-220-16					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	0.022	0.0011	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>118</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP12@6' T/L					
Laboratory ID:	04-220-17					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0059	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0059	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0059	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0089	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP12@6' T/L					
Laboratory ID:	04-220-17					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	0.014	0.0012	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0059	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP12@6', 2' W T/L					
Laboratory ID:	04-220-18					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0060	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0060	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0060	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0090	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP12@6', 2' W T/L					
Laboratory ID:	04-220-18					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	0.0097	0.0012	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0060	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP13@4', 5' E T/L					
Laboratory ID:	04-220-19					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0074	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	



Date of Report: April 26, 2017
 Samples Submitted: April 24, 2017
 Laboratory Reference: 1704-220
 Project: 15217E-1

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP13@4', 5' E T/L					
Laboratory ID:	04-220-19					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	0.018	0.0011	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	73-134				
<i>Toluene-d8</i>	107	81-124				
<i>4-Bromofluorobenzene</i>	113	80-131				



Date of Report: April 26, 2017
 Samples Submitted: April 24, 2017
 Laboratory Reference: 1704-220
 Project: 15217E-1

HALOGENATED VOLATILES 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:	MB0425S1					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	4-25-17	4-25-17	
Chloromethane	ND	0.0050	EPA 8260C	4-25-17	4-25-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Bromomethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Chloroethane	ND	0.0050	EPA 8260C	4-25-17	4-25-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Iodomethane	ND	0.0050	EPA 8260C	4-25-17	4-25-17	
Methylene Chloride	ND	0.0075	EPA 8260C	4-25-17	4-25-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Bromochloromethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Chloroform	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Trichloroethene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Dibromomethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	4-25-17	4-25-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	



Date of Report: April 26, 2017
 Samples Submitted: April 24, 2017
 Laboratory Reference: 1704-220
 Project: 15217E-1

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0425S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Chlorobenzene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Bromoform	ND	0.0050	EPA 8260C	4-25-17	4-25-17	
Bromobenzene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	4-25-17	4-25-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	4-25-17	4-25-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	4-25-17	4-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>120</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-131</i>				



Date of Report: April 26, 2017
 Samples Submitted: April 24, 2017
 Laboratory Reference: 1704-220
 Project: 15217E-1

**HALOGENATED VOLATILES EPA 8260C
 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:	SB0425S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0444	0.0476	0.0500	0.0500	89	95	66-127	7	15	
Benzene	0.0435	0.0476	0.0500	0.0500	87	95	76-122	9	15	
Trichloroethene	0.0451	0.0477	0.0500	0.0500	90	95	78-120	6	15	
Toluene	0.0450	0.0480	0.0500	0.0500	90	96	83-120	6	15	
Chlorobenzene	0.0461	0.0502	0.0500	0.0500	92	100	81-120	9	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>109</i>	<i>109</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>105</i>	<i>105</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>91</i>	<i>90</i>	<i>80-131</i>			



Date of Report: April 26, 2017
 Samples Submitted: April 24, 2017
 Laboratory Reference: 1704-220
 Project: 15217E-1

% MOISTURE

Date Analyzed: 4-25-17

Client ID	Lab ID	% Moisture
TP6@2'	04-220-01	20
TP6@4'	04-220-02	10
TP7@3"	04-220-03	10
TP7@2'	04-220-04	10
TP7@4'	04-220-05	13
TP8@5' T/L	04-220-06	13
TP8@7' T/L	04-220-07	11
TP8@7', 2.5' W T/L	04-220-08	11
TP9@3"	04-220-09	9
TP9@5', 5' E T/L	04-220-10	13
TP10@5' T/L	04-220-11	13
TP10@7' T/L	04-220-12	10
TP10@7', 2.5' W T/L	04-220-13	10
TP11@6"	04-220-14	18
TP11@5", 5' E T/L	04-220-15	20
TP12@4' T/L	04-220-16	10
TP12@6' T/L	04-220-17	12
TP12@6', 2' W T/L	04-220-18	15
TP13@4', 5' E T/L	04-220-19	11





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 method 8260C, 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)
(TPH analysis 5 Days)
- _____ (other)

Laboratory Number: 04-220

Company: Geotech Conts

Project Number: 15A17E-1

Project Name: DE65A

Project Manager: Tim Johnson

Sampled by: Tim Johnson

Lab ID

Sample Identification

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	

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Date	Time	Comments/Special Instructions
1	TP6021	4/24/17	9:15	Soil	4			
2	TP6041		9:24		4			
3	TP2031		9:32		4			
4	TP7021		9:37		4			
5	TP1041		9:42		4			
6	TP8051 T/L		9:59		4			
7	TP8071 T/L		10:04		4			
8	TP8071 2.5' W T/L		10:04		4			
9	TP9031		10:34		4			
10	TP9051 5' E T/L	4/24/17	10:39	Soil	4			

Relinquished	Signature: <u>[Signature]</u>	Company: <u>Geotech Conts</u>	Date: <u>4/24/17</u>	Time: <u>14:50</u>	Comments/Special Instructions Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input checked="" type="checkbox"/>
Received					
Relinquished					
Received					
Relinquished					



Mw Onsite Environmental Inc.

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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: 04-220

Company: Scott's Conats

Project Number: 15217E-1

Project Name: ME 05th

Project Manager: Tim Johnson

Sampled by: Tim Johnson

Lab ID Sample Identification

11	TP10@5'T/L	4/24/17	10:55	Soil	4
12	TP10@7'T/L		11:10		
13	TP10@7.5'WST/L		11:16		
14	TP11@6'W		11:30		
15	TP10@5'WST/L		11:34		
16	TP12@4'T/L		11:54		
17	TP12@6'T/L		12:01		
18	TP12@6', 2'WST/L		12:07		
19	TP13@4', 5'ET/L	4/24/17	12:16	Soil	4

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	X
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

Relinquished	<u>[Signature]</u>	<u>Scott's Conats</u>	<u>4/24/17</u>	<u>14:50</u>	
Received		<u>[Signature]</u>	<u>4/24/17</u>	<u>14:50</u>	
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
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

April 28, 2017

Tim Johnson
GeoTech Consultants
2401-10th Avenue East
Seattle, WA 98102, WA 98005

Re: Analytical Data for Project 15217E-1
Laboratory Reference No. 1704-257

Dear Tim:

Enclosed are the analytical results and associated quality control data for samples submitted on April 27, 2017.

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: April 28, 2017
Samples Submitted: April 27, 2017
Laboratory Reference: 1704-257
Project: 15217E-1

Case Narrative

Samples were collected on April 27, 2017 and received by the laboratory on April 27, 2017. 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.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

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



Date of Report: April 28, 2017
 Samples Submitted: April 27, 2017
 Laboratory Reference: 1704-257
 Project: 15217E-1

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP 14 S1					
Laboratory ID:	04-257-01					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Chloromethane	ND	0.0051	EPA 8260C	4-27-17	4-27-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Bromomethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Chloroethane	ND	0.0051	EPA 8260C	4-27-17	4-27-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Iodomethane	ND	0.0051	EPA 8260C	4-27-17	4-27-17	
Methylene Chloride	ND	0.0051	EPA 8260C	4-27-17	4-27-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Bromochloromethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Chloroform	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Trichloroethene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Dibromomethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	4-27-17	4-27-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	



Date of Report: April 28, 2017
 Samples Submitted: April 27, 2017
 Laboratory Reference: 1704-257
 Project: 15217E-1

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP 14 S1					
Laboratory ID:	04-257-01					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Tetrachloroethene	0.0096	0.0010	EPA 8260C	4-27-17	4-27-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Chlorobenzene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Bromoform	ND	0.0051	EPA 8260C	4-27-17	4-27-17	
Bromobenzene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	4-27-17	4-27-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	4-27-17	4-27-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>80-131</i>				



Date of Report: April 28, 2017
 Samples Submitted: April 27, 2017
 Laboratory Reference: 1704-257
 Project: 15217E-1

HALOGENATED VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP 14 S2					
Laboratory ID:	04-257-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Chloromethane	ND	0.0057	EPA 8260C	4-27-17	4-27-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Bromomethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Chloroethane	ND	0.0057	EPA 8260C	4-27-17	4-27-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Iodomethane	ND	0.0057	EPA 8260C	4-27-17	4-27-17	
Methylene Chloride	ND	0.0057	EPA 8260C	4-27-17	4-27-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Bromochloromethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Chloroform	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Trichloroethene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Dibromomethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	4-27-17	4-27-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP 14 S2					
Laboratory ID:	04-257-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Tetrachloroethene	0.025	0.0011	EPA 8260C	4-27-17	4-27-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Chlorobenzene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Bromoform	ND	0.0057	EPA 8260C	4-27-17	4-27-17	
Bromobenzene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	4-27-17	4-27-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	4-27-17	4-27-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>80-131</i>				



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HALOGENATED VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP 15 S1					
Laboratory ID:	04-257-03					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
Chloromethane	ND	0.0061	EPA 8260C	4-27-17	4-27-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
Bromomethane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
Chloroethane	ND	0.0061	EPA 8260C	4-27-17	4-27-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
Iodomethane	ND	0.0061	EPA 8260C	4-27-17	4-27-17	
Methylene Chloride	ND	0.0061	EPA 8260C	4-27-17	4-27-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
Bromochloromethane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
Chloroform	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
Trichloroethene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
Dibromomethane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	4-27-17	4-27-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP 15 S1					
Laboratory ID:	04-257-03					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
Chlorobenzene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
Bromoform	ND	0.0061	EPA 8260C	4-27-17	4-27-17	
Bromobenzene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
1,1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	4-27-17	4-27-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	4-27-17	4-27-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	4-27-17	4-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-131</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP 15 S2					
Laboratory ID:	04-257-04					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Chloromethane	ND	0.0056	EPA 8260C	4-27-17	4-27-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Bromomethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Chloroethane	ND	0.0056	EPA 8260C	4-27-17	4-27-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Iodomethane	ND	0.0056	EPA 8260C	4-27-17	4-27-17	
Methylene Chloride	ND	0.0056	EPA 8260C	4-27-17	4-27-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Bromochloromethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Chloroform	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Trichloroethene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Dibromomethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	4-27-17	4-27-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP 15 S2					
Laboratory ID:	04-257-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Tetrachloroethene	0.0019	0.0011	EPA 8260C	4-27-17	4-27-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Chlorobenzene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Bromoform	ND	0.0056	EPA 8260C	4-27-17	4-27-17	
Bromobenzene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	4-27-17	4-27-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	4-27-17	4-27-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	4-27-17	4-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>80-131</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0427S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Chloromethane	ND	0.0050	EPA 8260C	4-27-17	4-27-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Bromomethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Chloroethane	ND	0.0050	EPA 8260C	4-27-17	4-27-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Iodomethane	ND	0.0050	EPA 8260C	4-27-17	4-27-17	
Methylene Chloride	ND	0.0050	EPA 8260C	4-27-17	4-27-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Bromochloromethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Chloroform	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Trichloroethene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Dibromomethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	4-27-17	4-27-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0427S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Chlorobenzene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Bromoform	ND	0.0050	EPA 8260C	4-27-17	4-27-17	
Bromobenzene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	4-27-17	4-27-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	4-27-17	4-27-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	4-27-17	4-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>80-131</i>				



Date of Report: April 28, 2017
 Samples Submitted: April 27, 2017
 Laboratory Reference: 1704-257
 Project: 15217E-1

**HALOGENATED VOLATILES 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:	SB0427S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0440	0.0429	0.0500	0.0500	88	86	66-127	3	15	
Benzene	0.0470	0.0469	0.0500	0.0500	94	94	76-122	0	15	
Trichloroethene	0.0492	0.0509	0.0500	0.0500	98	102	78-120	3	15	
Toluene	0.0526	0.0539	0.0500	0.0500	105	108	83-120	2	15	
Chlorobenzene	0.0531	0.0515	0.0500	0.0500	106	103	81-120	3	15	
<i>Surrogate:</i>										
Dibromofluoromethane					87	85	73-134			
Toluene-d8					97	98	81-124			
4-Bromofluorobenzene					106	106	80-131			



Date of Report: April 28, 2017
Samples Submitted: April 27, 2017
Laboratory Reference: 1704-257
Project: 15217E-1

% MOISTURE

Date Analyzed: 4-27-17

Client ID	Lab ID	% Moisture
TP 14 S1	04-257-01	14
TP 14 S2	04-257-02	7
TP 15 S1	04-257-03	14
TP 15 S2	04-257-04	12





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 method 8260C, 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





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

July 25, 2017

Tim Johnson
GeoTech Consultants
2401-10th Avenue East
Seattle, WA 98102

Re: Analytical Data for Project 15217E-1
Laboratory Reference No. 1707-238

Dear Tim:

Enclosed are the analytical results and associated quality control data for samples submitted on July 24, 2017.

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: July 25, 2017
Samples Submitted: July 24, 2017
Laboratory Reference: 1707-238
Project: 15217E-1

Case Narrative

Samples were collected on July 24, 2017 and received by the laboratory on July 24, 2017. 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: July 25, 2017
 Samples Submitted: July 24, 2017
 Laboratory Reference: 1707-238
 Project: 15217E-1

VOLATILES EPA 8260C
 Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 1@4'					
Laboratory ID:	07-238-01					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
Chloromethane	ND	0.0073	EPA 8260C	7-25-17	7-25-17	
Vinyl Chloride	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
Bromomethane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
Chloroethane	ND	0.0073	EPA 8260C	7-25-17	7-25-17	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
Iodomethane	ND	0.0073	EPA 8260C	7-25-17	7-25-17	
Methylene Chloride	ND	0.015	EPA 8260C	7-25-17	7-25-17	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
Bromochloromethane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
Chloroform	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
Trichloroethene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
Dibromomethane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
Bromodichloromethane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0073	EPA 8260C	7-25-17	7-25-17	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	



Date of Report: July 25, 2017
 Samples Submitted: July 24, 2017
 Laboratory Reference: 1707-238
 Project: 15217E-1

VOLATILES EPA 8260C
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 1 @4'					
Laboratory ID:	07-238-01					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
Tetrachloroethene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
1,3-Dichloropropane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
Dibromochloromethane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
Chlorobenzene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
Bromoform	ND	0.0073	EPA 8260C	7-25-17	7-25-17	
Bromobenzene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0019	EPA 8260C	7-25-17	7-25-17	
1,2,3-Trichloropropane	ND	0.0019	EPA 8260C	7-25-17	7-25-17	
2-Chlorotoluene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
4-Chlorotoluene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0073	EPA 8260C	7-25-17	7-25-17	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
Hexachlorobutadiene	ND	0.0073	EPA 8260C	7-25-17	7-25-17	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260C	7-25-17	7-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>80-131</i>				



Date of Report: July 25, 2017
 Samples Submitted: July 24, 2017
 Laboratory Reference: 1707-238
 Project: 15217E-1

**VOLATILES 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:	MB0725S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
Chloromethane	ND	0.0050	EPA 8260C	7-25-17	7-25-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
Bromomethane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
Chloroethane	ND	0.0050	EPA 8260C	7-25-17	7-25-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
Iodomethane	ND	0.0050	EPA 8260C	7-25-17	7-25-17	
Methylene Chloride	ND	0.010	EPA 8260C	7-25-17	7-25-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
Bromochloromethane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
Chloroform	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
Trichloroethene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
Dibromomethane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	7-25-17	7-25-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	



Date of Report: July 25, 2017
 Samples Submitted: July 24, 2017
 Laboratory Reference: 1707-238
 Project: 15217E-1

VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0725S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
Chlorobenzene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
Bromoform	ND	0.0050	EPA 8260C	7-25-17	7-25-17	
Bromobenzene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	7-25-17	7-25-17	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	7-25-17	7-25-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	7-25-17	7-25-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	7-25-17	7-25-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-25-17	7-25-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>80-131</i>				



Date of Report: July 25, 2017
 Samples Submitted: July 24, 2017
 Laboratory Reference: 1707-238
 Project: 15217E-1

**VOLATILES EPA 8260C
 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:	SB0725S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0483	0.0499	0.0500	0.0500	97	100	66-127	3	15	
Benzene	0.0505	0.0518	0.0500	0.0500	101	104	76-122	3	15	
Trichloroethene	0.0511	0.0525	0.0500	0.0500	102	105	78-120	3	15	
Toluene	0.0530	0.0551	0.0500	0.0500	106	110	83-120	4	15	
Chlorobenzene	0.0447	0.0407	0.0500	0.0500	89	81	81-120	9	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>109</i>	<i>104</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>106</i>	<i>99</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>107</i>	<i>100</i>	<i>80-131</i>			



Date of Report: July 25, 2017
Samples Submitted: July 24, 2017
Laboratory Reference: 1707-238
Project: 15217E-1

% MOISTURE

Date Analyzed: 7-24-17

Client ID	Lab ID	% Moisture
Pile 1@4'	07-238-01	8





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 method 8260C, 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
 14649 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: **07-238**

07-238

Company: Bestek Consulting
 Project Number: ISA17E-1
 Project Name: All Star
 Project Manager: Timothy Phrus
 Sampled by: Timothy Phrus

Same Day
 1 Day
 2 Days
 3 Days
 Standard (7 Days)
 (TPH analysis 5 Days)
 (other) _____

Lab ID: 1 Sample Identification: Pile 1 @ 4' Date Sampled: 7/24/17 Time Sampled: 11:55 Matrix: soil

Number of Containers	
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
Halogenated Volatiles 8260C	<input checked="" type="checkbox"/>
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	<input checked="" type="checkbox"/>

Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	<u>Bestek Consulting</u>	<u>7/24/17</u>	<u>15:15</u>	
<u>[Signature]</u>	<u>OSI</u>	<u>7/24/17</u>	<u>15:15</u>	
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
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

July 18, 2017

Tim Johnson
GeoTech Consultants
2401-10th Avenue East
Seattle, WA 98102

Re: Analytical Data for Project 15217E-1
Laboratory Reference No. 1707-139

Dear Tim:

Enclosed are the analytical results and associated quality control data for samples submitted on July 17, 2017.

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: July 18, 2017
Samples Submitted: July 17, 2017
Laboratory Reference: 1707-139
Project: 15217E-1

Case Narrative

Samples were collected on July 17, 2017 and received by the laboratory on July 17, 2017. 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 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

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



Date of Report: July 18, 2017
 Samples Submitted: July 17, 2017
 Laboratory Reference: 1707-139
 Project: 15217E-1

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 8@11'					
Laboratory ID:	07-139-01					
Dichlorodifluoromethane	ND	0.0019	EPA 8260C	7-17-17	7-17-17	
Chloromethane	ND	0.0070	EPA 8260C	7-17-17	7-17-17	
Vinyl Chloride	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
Bromomethane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
Chloroethane	ND	0.0070	EPA 8260C	7-17-17	7-17-17	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
Iodomethane	ND	0.0070	EPA 8260C	7-17-17	7-17-17	
Methylene Chloride	ND	0.014	EPA 8260C	7-17-17	7-17-17	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
Bromochloromethane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
Chloroform	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
Trichloroethene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
Dibromomethane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
Bromodichloromethane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
2-Chloroethyl Vinyl Ether	ND	0.0070	EPA 8260C	7-17-17	7-17-17	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	



Date of Report: July 18, 2017
 Samples Submitted: July 17, 2017
 Laboratory Reference: 1707-139
 Project: 15217E-1

VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 8@11'					
Laboratory ID:	07-139-01					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
Tetrachloroethene	0.0061	0.0014	EPA 8260C	7-17-17	7-17-17	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
Dibromochloromethane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
Chlorobenzene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
Bromoform	ND	0.0070	EPA 8260C	7-17-17	7-17-17	
Bromobenzene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
2-Chlorotoluene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
4-Chlorotoluene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
1,2-Dibromo-3-chloropropane	ND	0.0070	EPA 8260C	7-17-17	7-17-17	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
Hexachlorobutadiene	ND	0.0070	EPA 8260C	7-17-17	7-17-17	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-131</i>				



Date of Report: July 18, 2017
 Samples Submitted: July 17, 2017
 Laboratory Reference: 1707-139
 Project: 15217E-1

VOLATILES 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:	MB0717S1					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	7-17-17	7-17-17	
Chloromethane	ND	0.0050	EPA 8260C	7-17-17	7-17-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
Bromomethane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
Chloroethane	ND	0.0050	EPA 8260C	7-17-17	7-17-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
Iodomethane	ND	0.0050	EPA 8260C	7-17-17	7-17-17	
Methylene Chloride	ND	0.010	EPA 8260C	7-17-17	7-17-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
Bromochloromethane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
Chloroform	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
Trichloroethene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
Dibromomethane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	7-17-17	7-17-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	



Date of Report: July 18, 2017
 Samples Submitted: July 17, 2017
 Laboratory Reference: 1707-139
 Project: 15217E-1

VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0717S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
Chlorobenzene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
Bromoform	ND	0.0050	EPA 8260C	7-17-17	7-17-17	
Bromobenzene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	7-17-17	7-17-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	7-17-17	7-17-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-17-17	7-17-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>128</i>	<i>80-131</i>				



Date of Report: July 18, 2017
 Samples Submitted: July 17, 2017
 Laboratory Reference: 1707-139
 Project: 15217E-1

**VOLATILES 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:	SB0717S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0538	0.0492	0.0500	0.0500	108	98	66-127	9	15	
Benzene	0.0491	0.0480	0.0500	0.0500	98	96	76-122	2	15	
Trichloroethene	0.0534	0.0511	0.0500	0.0500	107	102	78-120	4	15	
Toluene	0.0527	0.0524	0.0500	0.0500	105	105	83-120	1	15	
Chlorobenzene	0.0473	0.0459	0.0500	0.0500	95	92	81-120	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					106	104	73-134			
<i>Toluene-d8</i>					103	104	81-124			
<i>4-Bromofluorobenzene</i>					103	102	80-131			



Date of Report: July 18, 2017
Samples Submitted: July 17, 2017
Laboratory Reference: 1707-139
Project: 15217E-1

% MOISTURE

Date Analyzed: 7-17-17

Client ID	Lab ID	% Moisture
Pile 8@11'	07-139-01	9





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 method 8260C, 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





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

July 20, 2017

Tim Johnson
GeoTech Consultants
2401-10th Avenue East
Seattle, WA 98102

Re: Analytical Data for Project 15217E-1
Laboratory Reference No. 1707-160

Dear Tim:

Enclosed are the analytical results and associated quality control data for samples submitted on July 18, 2017.

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: July 20, 2017
Samples Submitted: July 18, 2017
Laboratory Reference: 1707-160
Project: 15217E-1

Case Narrative

Samples were collected on July 18, 2017 and received by the laboratory on July 18, 2017. 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 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

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



Date of Report: July 20, 2017
 Samples Submitted: July 18, 2017
 Laboratory Reference: 1707-160
 Project: 15217E-1

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 17@9'					
Laboratory ID:	07-160-01					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	7-19-17	7-19-17	
Chloromethane	ND	0.0044	EPA 8260C	7-19-17	7-19-17	
Vinyl Chloride	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
Bromomethane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
Chloroethane	ND	0.0044	EPA 8260C	7-19-17	7-19-17	
Trichlorofluoromethane	0.0056	0.00088	EPA 8260C	7-19-17	7-19-17	
1,1-Dichloroethene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
Iodomethane	ND	0.0044	EPA 8260C	7-19-17	7-19-17	
Methylene Chloride	ND	0.0088	EPA 8260C	7-19-17	7-19-17	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
1,1-Dichloroethane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
2,2-Dichloropropane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
Bromochloromethane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
Chloroform	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
Carbon Tetrachloride	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
1,1-Dichloropropene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
1,2-Dichloroethane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
Trichloroethene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
1,2-Dichloropropane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
Dibromomethane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
Bromodichloromethane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	7-19-17	7-19-17	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	



Date of Report: July 20, 2017
 Samples Submitted: July 18, 2017
 Laboratory Reference: 1707-160
 Project: 15217E-1

VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 17@9'					
Laboratory ID:	07-160-01					
1,1,2-Trichloroethane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
Tetrachloroethene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
1,3-Dichloropropane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
Dibromochloromethane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
1,2-Dibromoethane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
Chlorobenzene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
Bromoform	ND	0.0044	EPA 8260C	7-19-17	7-19-17	
Bromobenzene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
2-Chlorotoluene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
4-Chlorotoluene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	7-19-17	7-19-17	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	7-19-17	7-19-17	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260C	7-19-17	7-19-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>120</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>121</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>118</i>	<i>80-131</i>				



Date of Report: July 20, 2017
 Samples Submitted: July 18, 2017
 Laboratory Reference: 1707-160
 Project: 15217E-1

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 17@19'					
Laboratory ID:	07-160-02					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	7-19-17	7-19-17	
Chloromethane	ND	0.0053	EPA 8260C	7-19-17	7-19-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
Bromomethane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
Chloroethane	ND	0.0053	EPA 8260C	7-19-17	7-19-17	
Trichlorofluoromethane	0.0052	0.0011	EPA 8260C	7-19-17	7-19-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
Iodomethane	ND	0.0053	EPA 8260C	7-19-17	7-19-17	
Methylene Chloride	ND	0.011	EPA 8260C	7-19-17	7-19-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
Bromochloromethane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
Chloroform	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
Trichloroethene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
Dibromomethane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	7-19-17	7-19-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 17@19'					
Laboratory ID:	07-160-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
Chlorobenzene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
Bromoform	ND	0.0053	EPA 8260C	7-19-17	7-19-17	
Bromobenzene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	7-19-17	7-19-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	7-19-17	7-19-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	7-19-17	7-19-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>120</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>118</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 19@10'					
Laboratory ID:	07-160-03					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	7-19-17	7-19-17	
Chloromethane	ND	0.0045	EPA 8260C	7-19-17	7-19-17	
Vinyl Chloride	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
Bromomethane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
Chloroethane	ND	0.0045	EPA 8260C	7-19-17	7-19-17	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
Iodomethane	ND	0.0045	EPA 8260C	7-19-17	7-19-17	
Methylene Chloride	ND	0.0090	EPA 8260C	7-19-17	7-19-17	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
Bromochloromethane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
Chloroform	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
Trichloroethene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
1,2-Dichloropropane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
Dibromomethane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
Bromodichloromethane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	7-19-17	7-19-17	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 19@10'					
Laboratory ID:	07-160-03					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
Tetrachloroethene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
Dibromochloromethane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
Chlorobenzene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
Bromoform	ND	0.0045	EPA 8260C	7-19-17	7-19-17	
Bromobenzene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
2-Chlorotoluene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
4-Chlorotoluene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	7-19-17	7-19-17	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	7-19-17	7-19-17	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	7-19-17	7-19-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>113</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 19@20'					
Laboratory ID:	07-160-04					
Dichlorodifluoromethane	ND	0.0020	EPA 8260C	7-19-17	7-19-17	
Chloromethane	ND	0.0058	EPA 8260C	7-19-17	7-19-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
Bromomethane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
Chloroethane	ND	0.0058	EPA 8260C	7-19-17	7-19-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
Iodomethane	ND	0.0058	EPA 8260C	7-19-17	7-19-17	
Methylene Chloride	ND	0.012	EPA 8260C	7-19-17	7-19-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
Bromochloromethane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
Chloroform	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
Trichloroethene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
Dibromomethane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	7-19-17	7-19-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 19@20'					
Laboratory ID:	07-160-04					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
Tetrachloroethene	0.0022	0.0012	EPA 8260C	7-19-17	7-19-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
Chlorobenzene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
Bromoform	ND	0.0058	EPA 8260C	7-19-17	7-19-17	
Bromobenzene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	7-19-17	7-19-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	7-19-17	7-19-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	7-19-17	7-19-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>80-131</i>				



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0719S1					
Dichlorodifluoromethane	ND	0.002	EPA 8260C	7-19-17	7-19-17	
Chloromethane	ND	0.01	EPA 8260C	7-19-17	7-19-17	
Vinyl Chloride	ND	0.001	EPA 8260C	7-19-17	7-19-17	
Bromomethane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
Chloroethane	ND	0.01	EPA 8260C	7-19-17	7-19-17	
Trichlorofluoromethane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
1,1-Dichloroethene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
Iodomethane	ND	0.01	EPA 8260C	7-19-17	7-19-17	
Methylene Chloride	ND	0.01	EPA 8260C	7-19-17	7-19-17	
(trans) 1,2-Dichloroethene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
1,1-Dichloroethane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
2,2-Dichloropropane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
(cis) 1,2-Dichloroethene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
Bromochloromethane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
Chloroform	ND	0.001	EPA 8260C	7-19-17	7-19-17	
1,1,1-Trichloroethane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
Carbon Tetrachloride	ND	0.001	EPA 8260C	7-19-17	7-19-17	
1,1-Dichloropropene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
1,2-Dichloroethane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
Trichloroethene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
1,2-Dichloropropane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
Dibromomethane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
Bromodichloromethane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
2-Chloroethyl Vinyl Ether	ND	0.01	EPA 8260C	7-19-17	7-19-17	
(cis) 1,3-Dichloropropene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
(trans) 1,3-Dichloropropene	ND	0.001	EPA 8260C	7-19-17	7-19-17	



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0719S1					
1,1,2-Trichloroethane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
Tetrachloroethene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
1,3-Dichloropropane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
Dibromochloromethane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
1,2-Dibromoethane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
Chlorobenzene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
1,1,1,2-Tetrachloroethane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
Bromoform	ND	0.01	EPA 8260C	7-19-17	7-19-17	
Bromobenzene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
1,1,2,2-Tetrachloroethane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
1,2,3-Trichloropropane	ND	0.001	EPA 8260C	7-19-17	7-19-17	
2-Chlorotoluene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
4-Chlorotoluene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
1,3-Dichlorobenzene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
1,4-Dichlorobenzene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
1,2-Dichlorobenzene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
1,2-Dibromo-3-chloropropane	ND	0.01	EPA 8260C	7-19-17	7-19-17	
1,2,4-Trichlorobenzene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
Hexachlorobutadiene	ND	0.01	EPA 8260C	7-19-17	7-19-17	
1,2,3-Trichlorobenzene	ND	0.001	EPA 8260C	7-19-17	7-19-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>121</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>119</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>119</i>	<i>80-131</i>				



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**VOLATILES by EPA 8260C
 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:	SB0719S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0531	0.0554	0.0500	0.0500	106	111	66-127	4	15	
Benzene	0.0512	0.0525	0.0500	0.0500	102	105	76-122	3	15	
Trichloroethene	0.0518	0.0540	0.0500	0.0500	104	108	78-120	4	15	
Toluene	0.0533	0.0563	0.0500	0.0500	107	113	83-120	5	15	
Chlorobenzene	0.0463	0.0481	0.0500	0.0500	93	96	81-120	4	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>108</i>	<i>106</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>106</i>	<i>107</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>104</i>	<i>102</i>	<i>80-131</i>			



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Project: 15217E-1

% MOISTURE

Date Analyzed: 7-19-17

Client ID	Lab ID	% Moisture
Pile 17@9'	07-160-01	8
Pile 17@19'	07-160-02	10
Pile 19@10'	07-160-03	8
Pile 19@20'	07-160-04	6





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 method 8260C, 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





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

July 21, 2017

Tim Johnson
GeoTech Consultants
2401-10th Avenue East
Seattle, WA 98102

Re: Analytical Data for Project 15217E-1
Laboratory Reference No. 1707-177

Dear Tim:

Enclosed are the analytical results and associated quality control data for samples submitted on July 19, 2017.

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: July 21, 2017
Samples Submitted: July 19, 2017
Laboratory Reference: 1707-177
Project: 15217E-1

Case Narrative

Samples were collected on July 19, 2017 and received by the laboratory on July 19, 2017. 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 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

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



Date of Report: July 21, 2017
 Samples Submitted: July 19, 2017
 Laboratory Reference: 1707-177
 Project: 15217E-1

VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 30@10'					
Laboratory ID:	07-177-01					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	7-20-17	7-20-17	
Chloromethane	ND	0.0054	EPA 8260C	7-20-17	7-20-17	
Vinyl Chloride	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
Bromomethane	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
Chloroethane	ND	0.0043	EPA 8260C	7-20-17	7-20-17	
Trichlorofluoromethane	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloroethene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
Iodomethane	ND	0.0043	EPA 8260C	7-20-17	7-20-17	
Methylene Chloride	ND	0.0086	EPA 8260C	7-20-17	7-20-17	
(trans) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloroethane	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
2,2-Dichloropropane	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
(cis) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
Bromochloromethane	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
Chloroform	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
1,1,1-Trichloroethane	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
Carbon Tetrachloride	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloropropene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
1,2-Dichloroethane	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
Trichloroethene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
1,2-Dichloropropane	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
Dibromomethane	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
Bromodichloromethane	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	7-20-17	7-20-17	
(cis) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
(trans) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	



Date of Report: July 21, 2017
 Samples Submitted: July 19, 2017
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VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 30@10'					
Laboratory ID:	07-177-01					
1,1,2-Trichloroethane	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
Tetrachloroethene	0.0087	0.00086	EPA 8260C	7-20-17	7-20-17	
1,3-Dichloropropane	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
Dibromochloromethane	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
1,2-Dibromoethane	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
Chlorobenzene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
Bromoform	ND	0.0043	EPA 8260C	7-20-17	7-20-17	
Bromobenzene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
2-Chlorotoluene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
4-Chlorotoluene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
1,3-Dichlorobenzene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
1,4-Dichlorobenzene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
1,2-Dichlorobenzene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	7-20-17	7-20-17	
1,2,4-Trichlorobenzene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	7-20-17	7-20-17	
1,2,3-Trichlorobenzene	ND	0.00086	EPA 8260C	7-20-17	7-20-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>121</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>116</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>80-131</i>				



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 Samples Submitted: July 19, 2017
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 Project: 15217E-1

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 30@20'					
Laboratory ID:	07-177-02					
Dichlorodifluoromethane	ND	0.0023	EPA 8260C	7-20-17	7-20-17	
Chloromethane	ND	0.0074	EPA 8260C	7-20-17	7-20-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
Bromomethane	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
Chloroethane	ND	0.0059	EPA 8260C	7-20-17	7-20-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
Iodomethane	ND	0.0059	EPA 8260C	7-20-17	7-20-17	
Methylene Chloride	ND	0.012	EPA 8260C	7-20-17	7-20-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
Bromochloromethane	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
Chloroform	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
Trichloroethene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
Dibromomethane	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
2-Chloroethyl Vinyl Ether	ND	0.0076	EPA 8260C	7-20-17	7-20-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 30@20'					
Laboratory ID:	07-177-02					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
Tetrachloroethene	0.0038	0.0012	EPA 8260C	7-20-17	7-20-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
Chlorobenzene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
Bromoform	ND	0.0059	EPA 8260C	7-20-17	7-20-17	
Bromobenzene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	7-20-17	7-20-17	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	7-20-17	7-20-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	7-20-17	7-20-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	7-20-17	7-20-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	7-20-17	7-20-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>80-131</i>				



Date of Report: July 21, 2017
 Samples Submitted: July 19, 2017
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VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 32@30'					
Laboratory ID:	07-177-03					
Dichlorodifluoromethane	ND	0.0021	EPA 8260C	7-20-17	7-20-17	
Chloromethane	ND	0.0067	EPA 8260C	7-20-17	7-20-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
Bromomethane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
Chloroethane	ND	0.0053	EPA 8260C	7-20-17	7-20-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
Iodomethane	ND	0.0053	EPA 8260C	7-20-17	7-20-17	
Methylene Chloride	ND	0.011	EPA 8260C	7-20-17	7-20-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
Bromochloromethane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
Chloroform	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
Trichloroethene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
Dibromomethane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260C	7-20-17	7-20-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 32@30'					
Laboratory ID:	07-177-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
Tetrachloroethene	0.0033	0.0011	EPA 8260C	7-20-17	7-20-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
Chlorobenzene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
Bromoform	ND	0.0053	EPA 8260C	7-20-17	7-20-17	
Bromobenzene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	7-20-17	7-20-17	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	7-20-17	7-20-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	7-20-17	7-20-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	7-20-17	7-20-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	7-20-17	7-20-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-131</i>				



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 Samples Submitted: July 19, 2017
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 33@10'					
Laboratory ID:	07-177-04					
Dichlorodifluoromethane	ND	0.0020	EPA 8260C	7-20-17	7-20-17	
Chloromethane	ND	0.0063	EPA 8260C	7-20-17	7-20-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Bromomethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Chloroethane	ND	0.0050	EPA 8260C	7-20-17	7-20-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Iodomethane	ND	0.0050	EPA 8260C	7-20-17	7-20-17	
Methylene Chloride	ND	0.010	EPA 8260C	7-20-17	7-20-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Bromochloromethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Chloroform	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Trichloroethene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Dibromomethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260C	7-20-17	7-20-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	



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 Samples Submitted: July 19, 2017
 Laboratory Reference: 1707-177
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 33@10'					
Laboratory ID:	07-177-04					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Tetrachloroethene	0.0088	0.0010	EPA 8260C	7-20-17	7-20-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Chlorobenzene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Bromoform	ND	0.0050	EPA 8260C	7-20-17	7-20-17	
Bromobenzene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	7-20-17	7-20-17	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	7-20-17	7-20-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	7-20-17	7-20-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	7-20-17	7-20-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>113</i>	<i>80-131</i>				



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VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 33@29'					
Laboratory ID:	07-177-05					
Dichlorodifluoromethane	ND	0.0019	EPA 8260C	7-20-17	7-20-17	
Chloromethane	ND	0.0061	EPA 8260C	7-20-17	7-20-17	
Vinyl Chloride	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
Bromomethane	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
Chloroethane	ND	0.0048	EPA 8260C	7-20-17	7-20-17	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
Iodomethane	ND	0.0048	EPA 8260C	7-20-17	7-20-17	
Methylene Chloride	ND	0.0097	EPA 8260C	7-20-17	7-20-17	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
Bromochloromethane	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
Chloroform	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
Trichloroethene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
Dibromomethane	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
Bromodichloromethane	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	7-20-17	7-20-17	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Pile 33@29'					
Laboratory ID:	07-177-05					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
Tetrachloroethene	0.0034	0.00097	EPA 8260C	7-20-17	7-20-17	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
Dibromochloromethane	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
Chlorobenzene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
Bromoform	ND	0.0048	EPA 8260C	7-20-17	7-20-17	
Bromobenzene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	7-20-17	7-20-17	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	7-20-17	7-20-17	
2-Chlorotoluene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
4-Chlorotoluene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	7-20-17	7-20-17	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	7-20-17	7-20-17	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	7-20-17	7-20-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-131</i>				



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VOLATILES by 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:	MB0720S1					
Dichlorodifluoromethane	ND	0.0020	EPA 8260C	7-20-17	7-20-17	
Chloromethane	ND	0.0063	EPA 8260C	7-20-17	7-20-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Bromomethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Chloroethane	ND	0.0050	EPA 8260C	7-20-17	7-20-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Iodomethane	ND	0.0050	EPA 8260C	7-20-17	7-20-17	
Methylene Chloride	ND	0.010	EPA 8260C	7-20-17	7-20-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Bromochloromethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Chloroform	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Trichloroethene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Dibromomethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260C	7-20-17	7-20-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0720S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Chlorobenzene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Bromoform	ND	0.0050	EPA 8260C	7-20-17	7-20-17	
Bromobenzene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	7-20-17	7-20-17	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	7-20-17	7-20-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	7-20-17	7-20-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	7-20-17	7-20-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-20-17	7-20-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>80-131</i>				



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 Project: 15217E-1

**VOLATILES by EPA 8260C
 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:	SB0720S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0512	0.0559	0.0500	0.0500	102	112	66-127	9	15	
Benzene	0.0508	0.0531	0.0500	0.0500	102	106	76-122	4	15	
Trichloroethene	0.0524	0.0566	0.0500	0.0500	105	113	78-120	8	15	
Toluene	0.0541	0.0570	0.0500	0.0500	108	114	83-120	5	15	
Chlorobenzene	0.0468	0.0493	0.0500	0.0500	94	99	81-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					105	101	73-134			
<i>Toluene-d8</i>					100	99	81-124			
<i>4-Bromofluorobenzene</i>					99	96	80-131			



Date of Report: July 21, 2017
Samples Submitted: July 19, 2017
Laboratory Reference: 1707-177
Project: 15217E-1

% MOISTURE

Date Analyzed: 7-20-17

Client ID	Lab ID	% Moisture
Pile 30@10'	07-177-01	8
Pile 30@20'	07-177-02	6
Pile 32@30'	07-177-03	9
Pile 33@10'	07-177-04	7
Pile 33@29'	07-177-05	8





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 method 8260C, 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



**APPENDIX B
NEARBY BORING LOGS**



Boring Log

Project Number
130267

Boring Number
B-2

Sheet
1 of 1

Project Name: Roosevelt Development

Ground Surface Elev _____

Location: Seattle, WA

Driller/Equipment: Cascade Drilling / Hollow Stem Auger, Limited Access Rig

Depth to Water _____

Drilling Method/Hammer: Dames & Moore, 3.25" OD, 2.5" ID / 140 lb / 30"

Start/Finish Date 11/1/2013

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	Blows/ 6"	Blows/foot					Material Type	Description	Depth (ft)
					0	10	20	30	40			
5	Hydrated bentonite chips		PID = 0.0	3 3 4							FILL Loose, moist, dark brown, slightly gravelly, slightly sandy SILT (ML); numerous fibrous organics	5
10			PID = 0.0	50/5							GLACIAL MELT-OUT TILL Very dense, moist, brown gray with iron oxide staining, slightly silty, slightly gravelly SAND (SP-SM)	10
15			PID = 0.0, Dx, Gx, VOCs, Metals, GSD, MC	50/6							Very dense, moist, brown gray, silty, very sandy GRAVEL (GM); predominantly medium sand, coarse gravel, diamicitic fabric	15
20			PID = 0.0	50/5							Very dense, moist, brown, slightly gravelly SAND (SP); medium to coarse sand, fine gravel	20
25			PID = 0.0, GSD, MC	50/5							Very dense, moist to very moist, brown, silty, very gravelly SAND (SM); medium to coarse sand, fine gravel	25
30			PID = 0.0, #200, MC	50/6							Very dense/hard, very moist to wet, brown gray, sandy SILT (ML); trace gravel, fine sand	30
35			PID = 0.0, #200, MC	50/6							Very dense, moist, brown gray, gravelly, silty SAND (SM); diamicitic fabric	35
40			PID = 0.0, Dx, Gx, VOCs, Metals, MC	50/6							Very dense, moist, brown gray SAND (SP); trace gravel, medium sand Boring terminated 40.5 feet below ground surface	40

Sampler Type:

- No Recovery
- 3.25" OD D&M Split-Spoon
- Ring Sampler

Drilling Method:

- HSA: Hollow Stem Auger
- MR: Mud Rotary

Logged by: **AET**

Approved by: **DHM**

Figure No. **A - 3**

GEOTECH BORING LOG: ROOSEVELT DEVELOPMENT.GPJ, June 13, 2014

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

158747

Resource Protection Well Report

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in circle)
 Construction
 Decommission ORIGINAL INSTALLATION Notice
of Intent Number _____

RECEIVED
NOV 12 2004
DEPARTMENT OF ECOLOGY
WELL DRILLING UNIT

CURRENT
Notice of Intent No. RE01011

Type of Well ("x" in circle)
 Resource Protection
 Geotech Soil Boring

Consulting Firm ACTS 990 Shannon & Wilson
Unique Ecology Well ID _____
Tag No: Aug 990

Property Owner City of Seattle

Site Address 100' east of Roosevelt & W 1st
NE 67th Ave
City Seattle County: King

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept for construction of this well, and it compliance with all Washington construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Location SE 1/4 SE 1/4 Sec S Twn 25 R 4 EWM or WWM

Driller Engineer Trainee Name (Print) Larry Instman
Driller/Engineer/Trainee Signature Yang Instman
Driller or Trainee License No. 2463

Lat/Long (s, t, r, still REQUIRED) Lat Deg _____ Lat Min/Sec _____
Lat Deg _____ Long Min/Sec _____

Tax Parcel No. ROW
Cased or Uncased Diameter 2" Static Level N.O.
Work/Decommission Start Date 10/14/04
Work/Decommission Completed Date 10/14/04

If trainee, licensed driller's
Signature and License no. _____

Construction/Design

Well Data

Formation Description

	Water-tight cover Surface flush vault Locking Cap/Lock	0 ft to <u>80</u> ft <u>Silt/Gravel</u>
	Casing Diameter <u>2</u> in. Material <u>PVC</u>	_____ ft. to _____ ft.
	Welded <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Glued <input type="checkbox"/>	_____ ft. to _____ ft.
	Well Seal <input checked="" type="checkbox"/>	_____ ft. to _____ ft.
	From <u>1</u> ft. To <u>69</u> ft. Material <u>Bentonite</u> Amount <u>100 lbs</u> Grout Weight <u>9.7</u>	_____ ft. to _____ ft.
	Drilling Method Hollow-Stem Auger _____ Air Rotary _____ Push Probe <input checked="" type="checkbox"/> Mud Rotary _____ Other _____	_____ ft. to _____ ft.
	Borehole diameter <u>4</u> in.	_____ ft. to _____ ft.
	Screen Material <u>PVC</u> Interval(s): From <u>70</u> To <u>80</u> From _____ To _____ Slot Size <u>10/10</u> in.	_____ ft. to _____ ft.
	Filter Pack: From <u>79</u> ft. To <u>80</u> ft. Material: <u>Sand</u> Size <u>10x20</u> in.	_____ ft. to _____ ft.
	Completed Depth: <u>80</u>	

APPENDIX C
TERRESTRIAL ECOLOGICAL EVALUATION FORM



Voluntary Cleanup Program

Washington State Department of Ecology
Toxics Cleanup Program

TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation.

Completion of this form is not sufficient to document your evaluation. You still need to document your analysis and the basis for your conclusion in your cleanup plan or report.

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to www.ecy.wa.gov/programs/tcp/policies/terrestrial/TEEHome.htm.

Step 1: IDENTIFY HAZARDOUS WASTE SITE

Please identify below the hazardous waste site for which you are documenting an evaluation.

Facility/Site Name:

Facility/Site Address:

Facility/Site No:

VCP Project No.:

Step 2: IDENTIFY EVALUATOR

Please identify below the person who conducted the evaluation and their contact information.

Name:

Title:

Organization:

Mailing address:

City:

State:

Zip code:

Phone:

Fax:

E-mail:

Step 3: DOCUMENT EVALUATION TYPE AND RESULTS

A. Exclusion from further evaluation.

1. Does the Site qualify for an exclusion from further evaluation?

- Yes *If you answered "YES," then answer **Question 2**.*
- No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3B** of this form.*

2. What is the basis for the exclusion? Check all that apply. Then skip to **Step 4** of this form.

Point of Compliance: WAC 173-340-7491(1)(a)

- All soil contamination is, or will be,* at least 15 feet below the surface.
- All soil contamination is, or will be,* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.

Barriers to Exposure: WAC 173-340-7491(1)(b)

- All contaminated soil, is or will be,* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.

Undeveloped Land: WAC 173-340-7491(1)(c)

- There is less than 0.25 acres of contiguous# undeveloped± land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.
- For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous# undeveloped± land on or within 500 feet of any area of the Site.

Background Concentrations: WAC 173-340-7491(1)(d)

- Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.

* An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.

± "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

"Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

B. Simplified evaluation.

1. Does the Site qualify for a simplified evaluation?

- Yes *If you answered "YES," then answer **Question 2** below.*
- No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3C** of this form.*

2. Did you conduct a simplified evaluation?

- Yes *If you answered "YES," then answer **Question 3** below.*
- No *If you answered "NO," then skip to **Step 3C** of this form.*

3. Was further evaluation necessary?

- Yes *If you answered "YES," then answer **Question 4** below.*
- No *If you answered "NO," then answer **Question 5** below.*

4. If further evaluation was necessary, what did you do?

- Used the concentrations listed in Table 749-2 as cleanup levels. *If so, then skip to **Step 4** of this form.*
- Conducted a site-specific evaluation. *If so, then skip to **Step 3C** of this form.*

5. If no further evaluation was necessary, what was the reason? Check all that apply. Then skip to **Step 4** of this form.

Exposure Analysis: WAC 173-340-7492(2)(a)

- Area of soil contamination at the Site is not more than 350 square feet.
- Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.

Pathway Analysis: WAC 173-340-7492(2)(b)

- No potential exposure pathways from soil contamination to ecological receptors.

Contaminant Analysis: WAC 173-340-7492(2)(c)

- No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.

C. Site-specific evaluation. A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. See WAC 173-340-7493(1)(c).

1. Was there a problem? See WAC 173-340-7493(2).

- Yes *If you answered "YES," then answer **Question 2** below.*
- No *If you answered "NO," then identify the reason here and then skip to **Question 5** below:*
- No issues were identified during the problem formulation step.
 - While issues were identified, those issues were addressed by the cleanup actions for protecting human health.

2. What did you do to resolve the problem? See WAC 173-340-7493(3).

- Used the concentrations listed in Table 749-3 as cleanup levels. *If so, then skip to **Question 5** below.*
- Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. *If so, then answer **Questions 3 and 4** below.*

3. If you conducted further site-specific evaluations, what methods did you use?

Check all that apply. See WAC 173-340-7493(3).

- Literature surveys.
- Soil bioassays.
- Wildlife exposure model.
- Biomarkers.
- Site-specific field studies.
- Weight of evidence.
- Other methods approved by Ecology. If so, please specify:

4. What was the result of those evaluations?

- Confirmed there was no problem.
- Confirmed there was a problem and established site-specific cleanup levels.

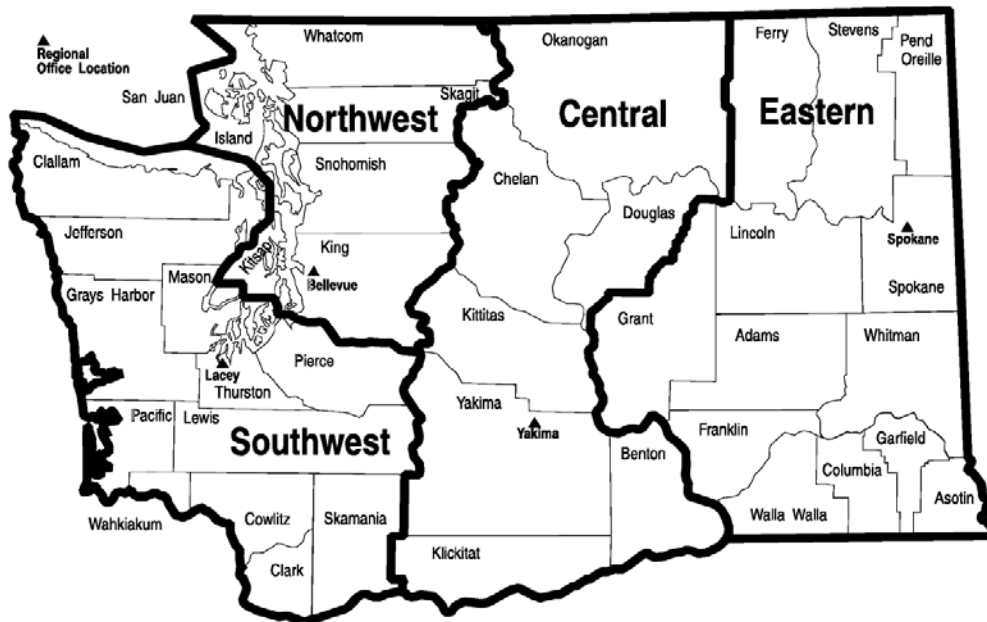
5. Have you already obtained Ecology's approval of both your problem formulation and problem resolution steps?

- Yes If so, please identify the Ecology staff who approved those steps:
- No

Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.

<p>Northwest Region: Attn: VCP Coordinator 3190 160th Ave. SE Bellevue, WA 98008-5452</p>	<p>Central Region: Attn: VCP Coordinator 1250 West Alder St. Union Gap, WA 98903-0009</p>
<p>Southwest Region: Attn: VCP Coordinator P.O. Box 47775 Olympia, WA 98504-7775</p>	<p>Eastern Region: Attn: VCP Coordinator N. 4601 Monroe Spokane WA 99205-1295</p>





LEGEND:

- - - - - Approximate Property Line Location
- Approximate Parcel Line Location (King County)
- ▶ Inferred Direction of Shallow Groundwater Flow



(SOURCE: USGS 2017 Aerial Photograph)

Not to Scale



500-FOOT BUFFER
 All Star Cleaners Property
 1222 Northeast 65th Street
 Seattle, Washington

Job No: 15217E-1	Date: June 2019	Plate: 1	
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